1913

General Catalogue 1913

Utah State University

CATALOGUE

OF THE

AGRICULTURAL COLLEGE OF UTAH

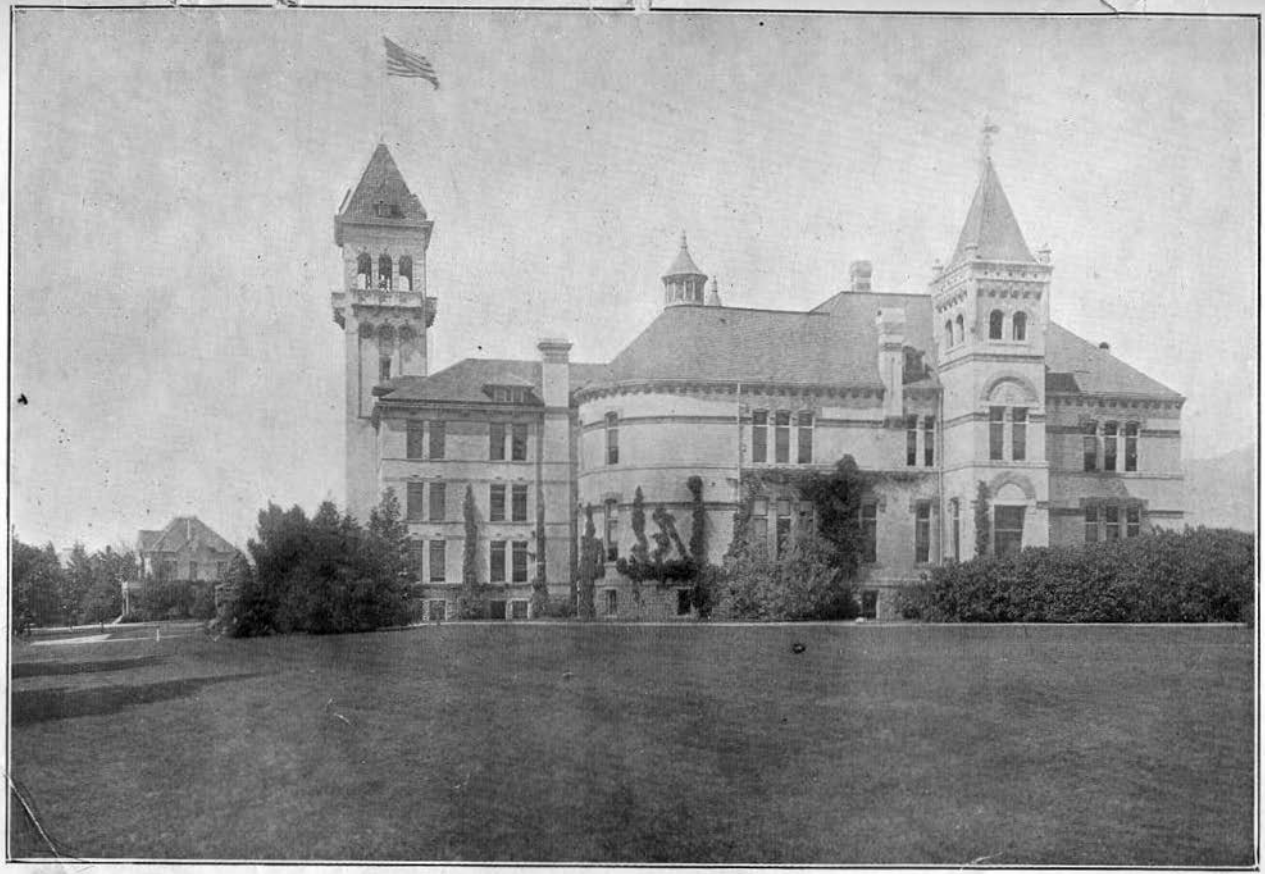
FOR

1913-1914

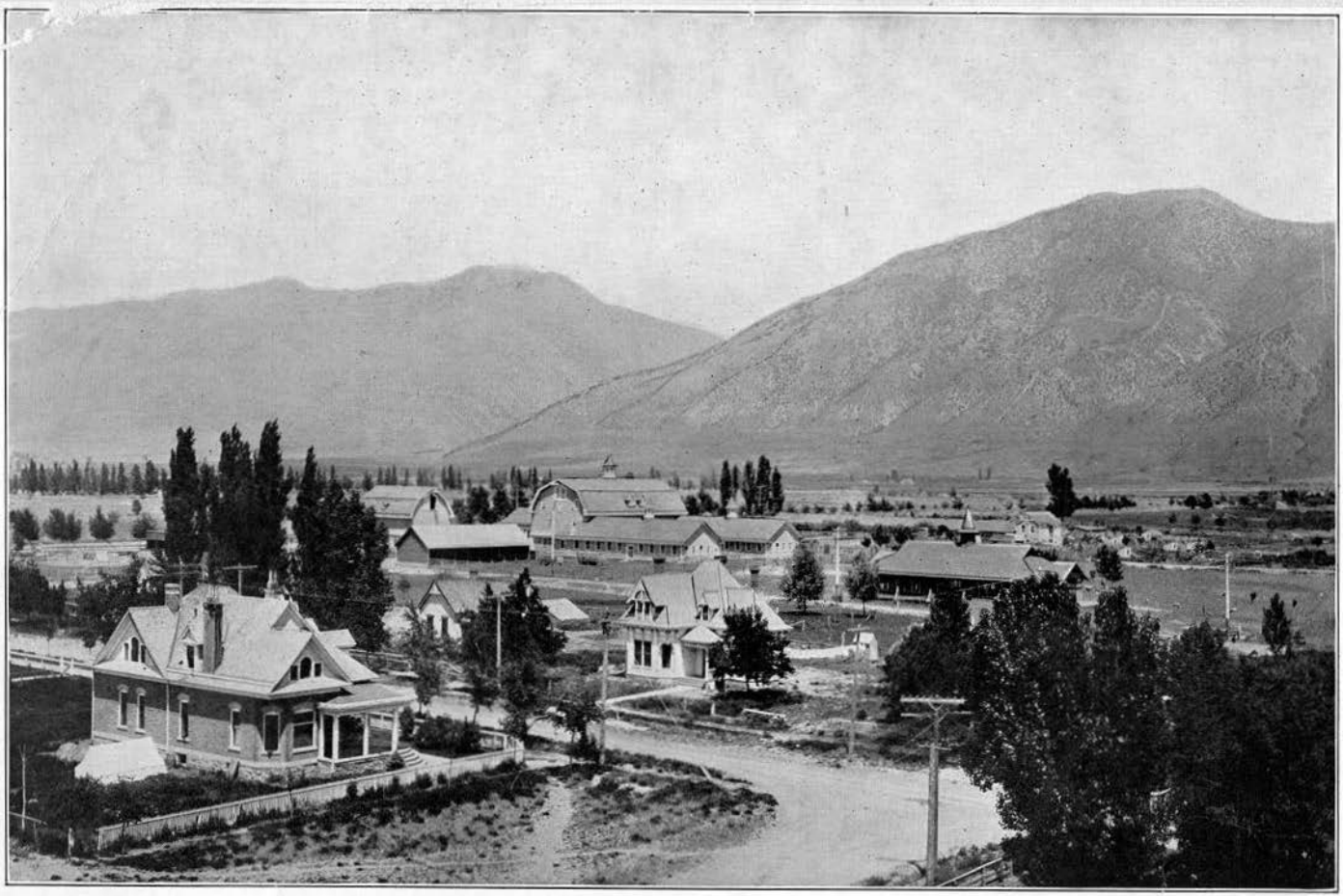
With List of Students for 1912-1913

LOGAN, UTAH

Published by the College
July, 1913



MAIN BUILDING.



A BIRDSEYE VIEW OF SOME OF THE COLLEGE RESIDENCES, THE BARNS, AND POULTRY PLANT.
Taken from the Thomas Smart Gymnasium.

1913.

JANUARY

S	M	T	W	T	F	S
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12	13	14	15	16	17	18
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FEBRUARY

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MARCH

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APRIL

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MAY

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JUNE

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JULY

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AUGUST

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SEPTEMBER

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OCTOBER

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NOVEMBER

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DECEMBER

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1914.

JANUARY

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FEBRUARY

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MARCH

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APRIL

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MAY

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JUNE

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JULY

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AUGUST

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SEPTEMBER

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OCTOBER

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25	26	27	28	29	30	31
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NOVEMBER

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DECEMBER

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13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	...	...
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College Calendar, 1913-1914.

FIRST TERM.

1913.

September 23, Tuesday:	Entrance examinations. Registration of former students, and of new students admitted on certificates.
September 24, Wednesday:	Classes organized.
November 27, Thursday:	Thanksgiving Day.
December 20, Saturday:	Christmas recess begins.

1914.

January 7, Tuesday:	Instructions resumed.
January 31, Saturday:	First term ends.

SECOND TERM.

February 3, Tuesday:	Second term begins.
February 12, Thursday:	Lincoln's Birthday.
February 22, Sunday:	Washington's Birthday.
April 15, Wednesday:	Arbor Day.
June 1, Monday:	Summer School begins.
June 7, Sunday:	Baccalaureate sermon.
June 8, Monday:	Class Day.
June 9, Tuesday:	Commencement, Alumni Banquet and Ball.

ANNUAL FARMERS' ROUND-UP.

U. A. C., LOGAN.

Tuesday, January 26, to Friday, February 6, 1914.

AT RICHFIELD.

Wednesday, February 11, to Saturday, February 21, 1914.

AT CEDAR CITY.

Monday, March 2, to Saturday, March 14, 1914.

Board of Trustees.

LORENZO N. STOHL.....Salt Lake City
THOMAS SMART .....Logan
JOHN Q. ADAMS.....Logan
ELIZABETH C. McCUNE.....Salt Lake City
J. W. N. WHITECOTTON.....Provo
JOHN DERN .....Salt Lake City
JOHN C. SHARP.....Salt Lake City
ANGUS T. WRIGHT.....Ogden
J. M. PETERSON.....Richfield
HAZEL L. DUNFORD.....Salt Lake City
GEORGE T. ODELL.....Salt Lake City
JOSEPH QUINNEY, JR.....Logan
DAVID MATTSON, Secretary of State, *Ex-officio*.....Salt Lake City

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ELIZABETH C. McCUNE.....Vice President
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JOHN L. COBURN.....Financial Secretary
ALLAN M. FLEMING.....Treasurer

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Committee on Mechanic Arts,
John Dern, J. W. N. Whitecotton, Angus T. Wright.
Committee on Agricultural Engineering,
George T. Odell, Thomas Smart, J. M. Peterson.
Committee on Home Economics,
Mrs. Elizabeth C. McCune, John Dern, Hazel L. Dunford.
Committee on Commerce,
Angus T. Wright, J. W. N. Whitecotton, Mrs. Elizabeth C. McCune.
Committee on Experiment Station,
Joseph Quinney, Jr., John Q. Adams, J. M. Peterson.
Committee on Faculty and Courses of Study,
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Committee on Livestock,
John C. Sharp, Thomas Smart, Joseph Quinney, Jr.
Committee on Extension Work,
Hazel L. Dunford, John Q. Adams, George T. Odell.
Committee on Buildings and Grounds,
Thomas Smart, John Q. Adams, John Dern, Joseph Quinney, Jr.
Committee on Branch at Cedar City,
J. M. Peterson, Joseph Quinney, Jr., Hazel L. Dunford.
Committee on Legislation and Finance,
David Mattson, John Dern, John C. Sharp, George T. Odell.
Auditor,
J. W. N. Whitecotton.

Officers of Administration and Instruction.*

The College Faculty.

(Arranged in Groups in the Order of Seniority of Appointment.)

JOHN ANDREAS WIDTSOE, A. M., Ph. D.,
PRESIDENT.

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Professor of Mathematics.

ELMER DARWIN BALL, M. Sc., Ph. D.
DIRECTOR, EXPERIMENT STATION AND DIRECTOR, SCHOOL OF AGRICULTURE.

GEORGE WASHINGTON THATCHER,
Professor of Music.

GEORGE THOMAS, A. M., Ph. D.,
DIRECTOR, SCHOOL OF COMMERCE.
Professor of Economics.

WILLIAM PETERSON, B. S.,
Professor of Geology.

HYRUM JOHN FREDERICK, D. V. M.,
Professor of Veterinary Science.

FRANK RUSSELL ARNOLD, A. M.,
Professor of Modern Languages.

*The College Council consists of the President, the Registrar, *(ex-officio)*, all members of the Faculty of the rank of Professor, Associate Professor or Assistant Professor.

†On leave of absence.

JAMES CHRISTIAN HOGENSON, M. S. A.,
Agronomist, Extension Division.

JOHN THOMAS CAINE, B. S.,
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Professor of Zoology and Entomology.

ROBERT STEWART, Ph. D.,
ASSISTANT DIRECTOR, EXPERIMENT STATION.
Professor of Chemistry.

JOHN THOMAS CAINE, III., M. S. A.,
ASSISTANT DIRECTOR, EXTENSION DIVISION.
Professor of Animal Husbandry.

FRANKLIN LORENZO WEST, Ph. D.,
DIRECTOR, SCHOOL OF GENERAL SCIENCE.
Professor of Physics.

CLAYTON TRYON TEETZEL, LL. B.,
Professor of Physical Education.

LEON D. BATCHELOR, M. S., Ph. D.,
Professor of Horticulture.

ELMER GEORGE PETERSON, A. M., Ph. D.,
DIRECTOR, EXTENSION DIVISION.

FRANKLIN STEWART HARRIS, Ph. D.,
DIRECTOR, SCHOOL OF AGRICULTURAL ENGINEERING.
Professor of Agromony.

ROBERT J. BINFORD, First Lieutenant, Infantry, U. S. A.
Professor of Military Science and Tactics.

BLANCHE COOPER, B. S.,
Professor of Home Construction and Sanitation.

JOSEPH EAMES GRAVES, M. S., Ph. D.,
Professor of Bacteriology and Physiological Chemistry.

CALVIN FLETCHER, B. Pd.,
Professor of Applied Art.

RAY BENEDICT WEST, C. E.,
Professor of Agricultural Engineering.

ROBERT JAMES EVANS, Ph. D.,
State Leader in Farm Management.

GEORGE RICHARD HILL, Ph. D.,
Professor of Botany.

JAMES HENRY LINFORD, D. Did.,
DIRECTOR OF SUMMER SCHOOL.
Superintendent, Correspondence Study Department.

ARTHUR HERBERT SAXER, M. S.,
Professor of Mathematics.

.....
Professor of Foods and Cookery.

N. ALVIN PEDERSON, A. M.,
Professor of English.

WM. E. CARROLL, M. S.,*
ASSISTANT DIRECTOR, SCHOOL OF AGRICULTURE.
Associate Professor of Animal Husbandry.

CHARLES WALTER PORTER, A. M.,
DIRECTOR, SCHOOL OF HOME ECONOMICS.
Associate Professor of Chemistry.

JONATHAN SOCKWELL POWELL.
Associate Professor of Fine Art.

RHODA BOWEN COOK,
Assistant Professor of Domestic Art.

ELIZABETH CHURCH SMITH, B. L.,
LIBRARIAN.

*On leave of absence.

GEORGE B. HENDRICKS, A. M.,
Assistant Professor of Economics.

PARLEY ERASTUS PETERSON, A. B.,
Assistant Professor of Accounting.

GEORGE C. JENSEN, A. M.,
Assistant Professor of Modern Languages.

AUGUST J. HANSEN, B. S.,
Assistant Professor of Mechanic Arts.

FRANKLIN D. DAINES, A. M.,
Assistant Professor of History.

JOHN L. COBURN, B. S.,
FINANCIAL SECRETARY.

BYRON ALDER, B. S.,
Assistant Professor of Poultry Husbandry.

JOHN STEWART, B. S.,
Assistant Professor of Chemistry.

EDWARD PARLEY PULLEY, B. S.,
Instructor in Machine Work.

SARA HUNTSMAN, B. S.,
Instructor in English.

AARON NEWEY, B. S.,
Instructor in Forging.

CHARLOTTE KYLE, A. M.,
Instructor in English.

LOUIE E. LINNARTZ,
Instructor in Music.

W. L. WALKER, B. S.,*
Instructor in Mathematics.

C. T. HIRST, B. S.,
Instructor in Chemistry.

CANUTE PETERSON, B. S.,
Instructor in Stenography and Typewriting.

WILLIAM SPICKER,
Instructor in Violin.

NETTIE SLOAN,
Instructor in Piano.

D. EARL ROBINSON, B. S.,
Instructor in History.

CORAL KERR, B. S.,
Instructor in Domestic Arts.

WALLACE McFARLANE, B. S.,*
Instructor in Mathematics.

JOHN H. MOSER.
Instructor in Art.

A. C. CARRINGTON,
PRESIDENT'S SECRETARY.

MARY E. JOHNSON, A. B.,
Instructor in Physical Education for Women.

JOSEPH D. HOWELL,
REGISTRAR.

LeGRANDE HUMPHERYS, B. S.,
Instructor in Mathematics and Farm Machinery.

---

*On leave of absence.

ALICE A. DUNFORD, B. S.,
Instructor in Domestic Science.

GERTRUDE M. McCHEYNE, B. S.,
Instructor in Home Economics, Extension Division.

JOSEPH PRESTON WELCH, B. S.,
Instructor in Farm Management.

CLAWSON YOUNG CANNON, B. S.,
Instructor in Animal Husbandry.

ARCHIE D. EGBERT, D. V. M.,
Foreman in Poultry Husbandry.

WALTER JOHN GLEN, B. S.,
Instructor in Farm Management.

LON J. HADDOCK, B. S.,
Instructor in Extension Division.

JOHN IRVIN LAURITZEN, B. S.,
Instructor in Botany.

AMY LYMAN, B. S.,
Instructor in Home Economics.

HOWARD JOHN MAUGHAN, B. S.,
Fellow in Agromony.

WILLIAM WARREN KNUDSON, B. S.,
Instructor in Horticulture.

HERBERT JOHN PACK, B. S.,
Instructor in Zoology.

BERT LORIN RICHARDS, B. S.,
Instructor in Botany.

GEORGE STEWART, B. S.,
Instructor in Agronomy.

HERMAN WILFORD STUCKI, B. S.,
Farm Foreman.

ROBERT H. STEWART, B. S.,
Instructor in Farm Management.

EZRA G. CARTER, B. S.,
Instructor in Bacteriology.

HATTIE SMITH,
Assistant in Library.

S. L. BINGHAM,
Assistant in Dairying.

DAN A. SWENSON,
Assistant in Woodwork.

GEORGE C. HAWS, A. B.,
Assistant in Mathematics.

MATHONIHAH THOMAS, LL. B.,
Special Lecturer in Irrigation Law.

CHARLES BATT,
Superintendent of Grounds, Water Works and Heating and Lighting Plant.

RASMUS OLUF LARSEN,
Superintendent of Buildings.

Experiment Station Staff.

E. D. BALL, Ph. D.,
Director and Entomologist.

H. J. FREDERICK, D. V. M.,
Veterinarian.

ROBERT STEWART, Ph. D.,
Assistant Director and Chemist.

E. G. TITUS, Sc. D.,
Entomologist.

L. D. BATCHELOR, Ph. D.,
Horticulturist.

F. S. HARRIS, Ph. D.,
Agronomist.

F. L. WEST, Ph. D.,
Meteorologist.

J. E. GREAVES, Ph. D.,
Bacteriologist.

W. E. CARROLL, M. S.,
Animal Husbandman.

BYRON ALDER, B. S.,
Poultryman.

G. R. HILL, JR., Ph. D.,
Plant Pathologist.

JOHN STEWART, B. S.,
Associate Chemist.

C. T. HIRST, B. S.,
Assistant Chemist.

H. J. WEBB, B .S.,
Assistant Entomologist.

A. D. ELLISON, B. S.,
Foreman Nephi Farm.

ARCHIE EGBERT, D. V. M.,
Assistant Poultryman.

H. W. STUCKI, B. S.,
Assistant Agronomist.

W. W. KNUDSON, B. S.,
Assistant Horticulturist.

H. J. MAUGHAN, B. S.,
Assistant Agronomist.

E. G. CARTER, B. S.,
Assistant Bacteriologist.

J. I. LAURITZEN, B. S.,
Assistant Plant Pathologist.

B. L. RICHARDS, B. S.,
Assistant Plant Pathologist.

A. B. BALLANTYNE, B. S.,
Superintendent Southern Experiment Farm.

WILLARD GARDNER, B. S.,
Clerk and Librarian.

IN CHARGE OF CO-OPERATIVE INVESTIGATIONS WITH U. S. DEPARTMENT OF AGRICULTURE.

W. W. McLAUGHLIN, B. S.,
Irrigation Engineer.

P. V. CARDON, B. S.,
Agronomist.

R. A. HART, B. S.,
Drainage Engineer.

The Branch of the Agricultural College of Utah
At Cedar City

JOHN ANDREAS WIDSTOE, A. M., Ph. D.,
PRESIDENT.

ROY F. HOMER, B. S.,
PRINCIPAL.

JEAN BROWN, A. M.,
Instructor in English.

MYRTLE DECKER, A. B.,
Instructor in English.

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Instructor in Mathematics and Shopwork.

FOREST FLETCHER,
Instructor in Mathematics and Physical Education.

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Instructor in Physics and Chemistry.

ALBERT N. TOLLESTRUP,
Instructor in Music.

ROBERT S. WRIGLEY, B. S.,
Instructor in Agronomy and Horticulture.

AMY LEIGH, B. S.,
Instructor in Domestic Arts.

ALICE KEWLEY, B. S.,
Instructor in Domestic Science.

RANDALL JONES, B. M. T.,
Instructor in Woodwork.

RUFUS LEIGH, D. D. S.,
Instructor in Biological Science.

DAVID SHARP, Jr., B. S.,
Instructor in Animal Husbandry.

GEORGE F. WHITHEAD, D. V. M.,
Instructor in Veterinary Science.

Instructor in Commerce.

Extension Division Staff.

John A. Widtsoe, A. M., Ph. D.....President
E. G. Peterson, A. M., Ph. D.....Director
John T. Caine III, M. S. A.,...Assistant Director. Animal Husbandry
J. C. Hogenson, M. S. A.....
.....Juvenile Clubs and School Co-operation. Agronomy
R. J. Evans, Ph.D...State Leader in Farm Management. Plant Breeding
James H. Linford, D. Did.....Correspondence Studies
Gertrude M. McCheyne, B. S.....
.....Improvement Associations for Women. Home Economics
J. P. Welch, B. S.....County Agricultural Demostrator
Lon J. Haddock, B. S.....Publications
R. H. Stewart, B. S.....County Agricultural Demonstrator
Walter J. Glenn, B. S.....County Agricultural Demonstrator
David Sharp, Jr., B. S.....
.....County Agricultural Demonstrator, Co-operative
Robert Wrigley, B. S.....
.....County Agricultural Demonstrator, Co-operative
Amy Lyman, B. S.....County Home Economics Demonstrator
Benj. R. Eldredge..Agent in Dairying, in co-operation with U. S. D. A.

Elmer D. Ball, M. S., Ph. D.....Entomology
William Peterson, B. S. .....Roads
H. J. Frederick, D. V. M.....Veterinary Science
E. G. Titus, D. Sc. .....Entomology
Robert Stewart, Ph. D.....Chemistry
Leon D. Bachelor, Ph. D. .....Horticulture
Frank S. Harris, Ph. D.....Agronomy
Geroge R. Hill, Ph. D.....Botany and Plant Pathology
Blanche Cooper, B. S.....Home Economics
W. Ernest Carroll, M. S.....Animal Husbandry
Ray B. West, C. E. .....Agricultural Engineer
Byron Alder, B. S.....Poultry Husbandry
_____..... Irrigation Engineer
C. F. Brown, B. S.....Drainage Engineer

Standing Committees.

1913-1914.

The President of the College is *ex officio* a member of each standing committee.

1. *High School.*—Professors Wm. Peterson, P. E. Peterson, Mrs. Cook.

2. *Graduation.*—Professors Arnold, Batchelor, Cooper, Saxer, R. B. West.

3. *College Publications.*—Professors N. A. Pederson, Arnold, Daines, Miss Huntsman, Miss Kyle.

4. *Attendance and Scholarship.*—Professors Thomas, Wm. Peterson, Binford, Miss Kyle, Mr. Humpherys.

5. *Student Affairs.*—Professors Frederick, Binford, Fletcher, Linford, Powell, Miss Smith, Miss Kyle, Miss Kerr.

6. *Athletics.*—Professors Teetzel, Binford, Coburn, Miss Johnson.

7. *Publicity.*—Professors Hill, Alder, Miss Huntsman, Mr. Canute Peterson, Robinson.

8. *Exhibits.*—Professors Titus, Fletcher, R. B. West, Hansen, Cook, Alder, Mr. Pulley.

9. *Debating.*—Professors Hendricks, Thomas, Titus, N. A. Pederson, Daines.

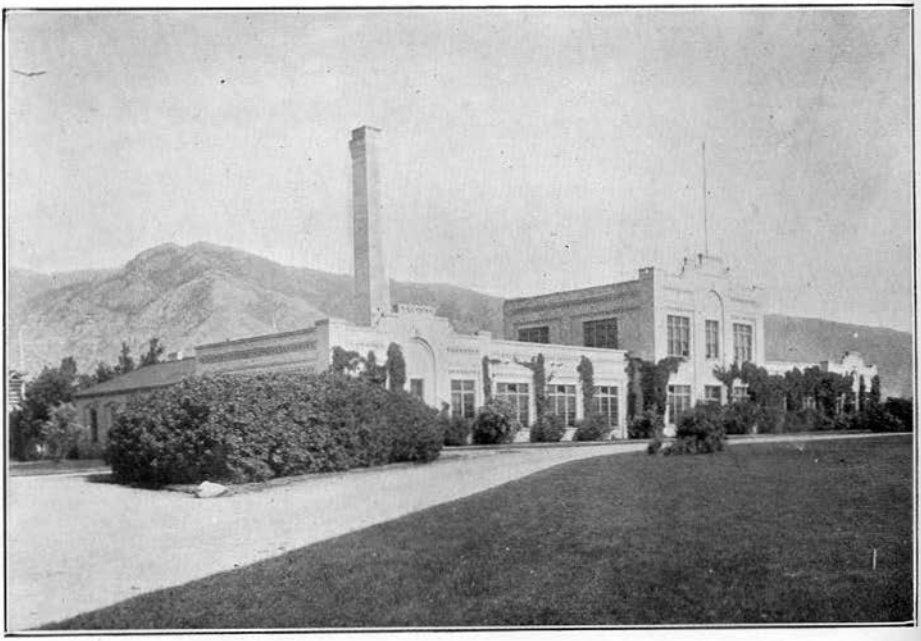
10. *Entrance Examinations.*—Professors Greaves, Jensen, Miss Dunford.

11. *Student Employment.*—Professors R. B. West, Saxer, Powell, Mr. Humpherys, Mr. Newey, Miss Johnson.

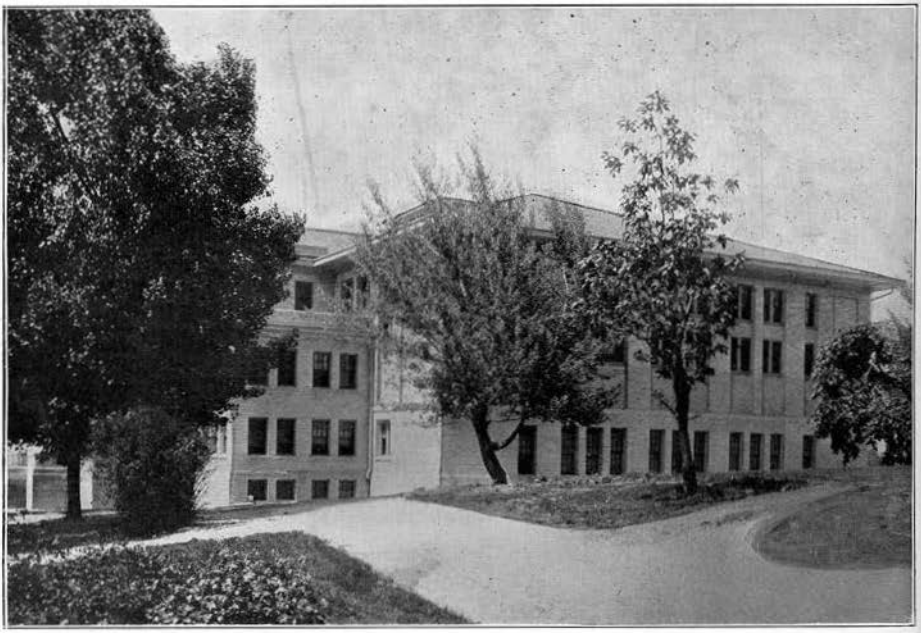
12. *Student Body Organization.*—Professors Thomas, Titus, Cooper.

13. *Graduate Employment.*—Mr. Carrington, Professors Ball, Thomas, Harris, F. L. West, Porter.

WOMAN'S BUILDING.



MECHANIC ARTS BUILDING.



THE THOMAS SMART GYMNASIUM.

AGRICULTURAL COLLEGE OF UTAH.

Policy.

The Agricultural College of Utah provides, in accordance with the spirit of the law under which it is organized, a liberal, thorough, and practical education. The two extremes in education, empiricism and the purely theoretical, are avoided, the practical being based upon, and united with, the thoroughly scientific. In addition to the practical work of the different courses, students are thoroughly trained in the related subjects of science, mathematics, history, English, and modern languages. While the importance of practical training is emphasized, the diciplinary value of education is kept constantly in view. The object is to inculcate habits of industry and thrift, of accuracy and reliability, and to foster all that makes for right living and good citizenship.

Under this general policy, the special purpose of the Agricultural College of Utah is to be of service in the upbuilding of the State of Utah, and the Great West to which it belongs. The instruction in Agriculture, therefore, deals with the special problems relating to the conquest of the great areas of unoccupied lands, the proper use of the water supply, the kinds of crop or live stock produced, which in Utah may be made pre-eminent; in Mechanic Arts, the most promising trades are pointed out, and they are taught in a manner to meet the needs of the State; in Commerce the present commercial conditions of the State are studied and the principles and methods to be applied in the commercial growth of Utah are given thorough investigation. The women who study Home Economics are taught house-keeping and right living from the point of view of prevailing Utah conditions.

The dominating spirit of the policy of the Agricultural College of Utah is to make the common work of the world—the work that most men and women must do—both profitable and pleasant. The motto of the College is, Labor of Life.

History.

The Agricultural College of Utah was founded March 8th, 1888, when, the Legislative Assembly accepted the terms of the national law passed by Congress on July 2nd, 1862. Under this Act of Congress, and the Enabling Act providing for the admission of Utah to the Union, 200,000 acres of land were granted to the State from the sale of which there should be established a perpetual fund, the interest to be used in maintaining the College.

Under the Hatch Act, approved in 1887, the State receives $15,000 annually for the Experiment Station. Under the Adams Act of 1906 the State receives an additional $15,000 annually for research work by the Experiment Station. Under the Morrill Act of 1890, amended by The Nelson act of 1907, the State receives $50,000 annually for instruction at the Agricultural College.

These federal appropriations, together with the annual income from the land-grant fund, represent the income received from the general government. Most of these funds must be used in accordance with the law for specific purposes and the institution is dependent on State appropriations for funds with which to provide additional instruction and for general maintenance. These needs have been generously met in the past by the Legislative Assemblies of the State. In 1888 the sum of $25,000 was appropriated for buildings and the County of Cache and the City of Logan gave one hundred acres of land on which to build the College. Since that time the State has, from time to time, appropriated sufficient funds to erect and maintain all the buildings described in a later section, besides providing largely for instruction.

By a recent legislative action, the College receives annually 28.34 per cent of 28 per cent of the total tax revenue of the State after deducting the revenue from 3.5 mills of the total State

valuation, set aside for the support of the elementary and high schools. The State, moreover provides $10,000 annually for extention purposes, $15,000 for experimental work, and an increasing fund for farm and home demonstrations.

In September, 1890, the institution was first opened for the admission of students. Degree courses were offered in Agriculture, Domestic Arts, Civil Engineering, Mechanic Arts, and Commerce ; a Preparatory Course and short courses in Agriculture and Engineering were also given. Since that time many improvements have been made in the courses ; some have been abandoned, several special practical year and winter courses in Commerce, Mechanic Arts, and Home Economics have been added, the standard of the College work has been raised. In 1903, the Board of Trustees established the School of Agriculture, the School of Home Economics, the School of Mechanic Arts, the School of Commerce and the School of General Science, and in 1911 the School of Agricultural Engineering. The High School Department of the College is being gradually eliminated. The first year high school work will not be given in 1913-1914. Both the first and the second years will be discontinued in 1914-1915.

Organization and Government

GOVERNMENT. The government of the College is vested primarily in the Board of Trustees, and, under their control the four other administrative bodies,—the Directors' Council, the College Council, the College Faculty, and the Staff of the Experiment Station. These, in their several capacities, determine the policy and maintain the efficiency of the institution.

THE BOARD OF TRUSTEES consists of thirteen members. Twelve are appointed by the Governor with the approval of the State Senate, the thirteenth is the Secretary of State who is *ex officio* a member. This Board assumes the legal responsibility of the institution, cares for its general interests, and directs its course by the enactment of all necessary by-laws and regulations. Vested in it is the power to establish professorships; to employ the instructing force and other officers of the College, and to formulate the general policy of the Institution.

Between sessions, the power of the trustees rests with an executive committee, whose actions are referred to the Board for their approval. In addition, there are committees, largely advisory, that deal with the general interests of the College.

THE DIRECTORS' COUNCIL consists of the President, the heads of the schools, the Director of the Experiment Station, and the Director of Extension Division. This body has immediate supervision of the instruction and discipline in all the various schools. It constitutes a permanent executive and administrative committee of the College Council and Faculty.

THE COLLEGE COUNCIL consists of the President of the College, the Registrar, and the professors, the associate professors, the assistant professors, and the librarian. All important questions of discipline and policy are decided by this body.

THE COLLEGE FACULTY includes the President, the professors, the associate professors, the assistant professors, the librarian, the

instructors, and the assistants. As an administrative body it is concerned with the ordinary questions of methods and discipline and with various matters pertaining to the general welfare of the College. Through its standing committees it is in intimate contact wtih the student body and with the life and interests of the college community.

THE STANDING COMMITTEES have delegated to them the immediate direction of all the various phases of college life, such as the enrollment and progress of students in the various schools, and the general direction of the work there carried on. The conduct of the student in his college home and his regularity in performing college duties; the publications of the College and the students; the interests of the students on the athletic field, in the amusement halls, and in their various organizations,—all these things are within the province of appropriate committees consisting largely of members of the council.

THE EXPERIMENT STATION STAFF consists of the President of the College, the Director of the Station, and the chiefs, with their assistants of the departments of the station. This body is employed in the investigation of problems peculiar to agriculture in this portion of the country, the purpose being to improve conditions and results. It is further responsible for the circulation, through private correspondence and regular bulletins, of such information as is of practical value to the farming communities.

THE STUDENTS. The College is maintained at public expense for the public good. The students, therefore, are under a peculiar obligation to perform faithfully all their duties to the State, the Institution, and the community. Most important of these is an active interest in all that concerns the moral and intellectual welfare of the College. Regularity of attendance, faithful attention to studies, and exemplary personal conduct are insisted upon at all times, and the administrative bodies of the College are fully empowered to secure these results.

ADMISSION. Students entering the college courses must show credits for three years work in some reputable high school or must

present eleven units of high school work in accordance with the new State High School Schedule. But beginning with 1914-1915 four years of high school work are required for admission and students must present fourteen units of approved high school subjects for entrance to the Freshman class. These may be selected from any subject for which credit toward graduation is given by an approved high school. But before graduation the following credits must be secured:

English	3 units
History	1 unit
Mathematics	2 units
Science	3 units
Total	9 units

A unit is equivalent to five hours work per week for one year.

Candidates for admission to advanced standing may be required to pass satisfactory examination in all the work of the preceding years, or to present satisfactory evidence of having completed an equivalent of such work in some other school or college.

ADMISSION TO HIGH SCHOOL. The high school department is gradually being eliminated. The first year of high school work will not be given in 1913-1914. Students entering the second year must show credits for one year of high school work.

ADMISSION TO THE PRACTICAL COURSES. Persons eighteen years or over, or those under eighteen who have had two years of high school work, are admitted without examination to the practical courses.

SPECIAL STUDENTS. Persons of mature years, who for satisfactory reasons desire to pursue a special line of study, may be admitted, as special students, provided they give evidence of ability to do the work desired. Special students may be allowed to graduate in any of the courses, on condition that they complete the required work and pass the necessary examinations.

REGISTRATION. All students register at the beginning of the collegiate year for the work of the whole year. Changes in registration, and credit for work not registered, will be allowed only by special permission of the Council.

CLASSIFICATION. All regular students are classified as second, third, and fourth year students in the High School, or as freshman, sophomore, junior, senior and special students in any of the courses leading to a degree.

GRADUATION. The degree of Bachelor of Science, in Agriculture, Home Economics, Agricultural Engineering, Commerce, Mechanic Arts, or General Science is conferred upon those who complete the regular four-year courses in Agriculture, Home Economics, Agricultural Engineering, Commerce, Mechanic Arts, and General Science respectively. To obtain a degree from 1914 to 1917 a student must have presented eleven units of high school work and accomplished 140 hours of college work. After 1917 students must show fourteen high school units and 120 college hours if they wish a degree in any course. (See Schedule of Courses.)

Besides this the student must have been in attendance at least one school year preceding the conferring of the degree. He must have completed all the prescribed and elective work in the four-year college schedules. He may be required to pass a satisfactory oral examination on the technical work of his course before a special committee appointed by the president. He must have no grade lower than D in any subject. Four-fifths of all his term grades must be C or better. He must have discharged all College fees. He must be recommended for graduation by his school faculty and receive the favorable vote of two-thirds of the members of the College Council.

SCHOLARSHIP HONORS. In order to encourage high scholarship the College Council has instituted a College Roll containing the names of all students doing excellent work. This roll is divided into two groups, the first group containing the names of

those who have A or B in all their work, the second composed of students having A or B with one C.

For the year 1912-1913 the following students were selected from the College Roll as deserving of some special distinction for high achievements in scholarship. On the last day of school they were, accordingly, publicly honored by receiving either a "Scholarship A" or "Honorable Mention" for Scholarship.

The following received the "Scholarship A:"

Abel S. Rich.
Elizabeth Groebli.
C. Y. Cannon
Grandison Gardner.
J. D. Barker.
H. R. Hagan.
Kathleen Bagley.

The following received "Honorable Mention:"

Ruby Osmond.
Effie Warnick.
Mary Shaw.
David Sharp.
Stanley Ivins.
P. N. Shelley.

THE STUDENT BODY ORGANIZATION. This society embraces all the students of the institution. Its prime object is to foster a proper spirit of college loyalty. It also secures dispatch and efficiency, as well as uniformity, in the administration of all maters pertaining to the entire student body. Realizing the importance to all students of taking part in the various college activities the organization further provides each member with the maxinum amount of proper athletic, theatrical and social recreation at the minimum expense, viz., $5.00 annually. This society has control of the following student activities:

1. *Athletics,* including all inter-class and inter-collegiate contests in foot ball, base ball, basket ball, and track events.

2. *Musicals,* including all public performances of the Band, the Orchestra, Glee Club, Choir, String Quartette, and Mandolin

and Guitar Club. During recent years the following operas have been presented: *Babette, Marriage by Lantern Light, The Geisha, When Johnny Comes Marching Home, The Mikado.*

3. *Theatricals.* Once or twice each season some dramatic performance is given. In the past, two of Shakspere's comedies, *She Stoops to Conquer, Pygmalion and Galatea, The Climbers, The College Widow, The Amazons, Sweet Kitty Bellairs, The Rivals,* and several minor productions, have been presented.

4. *Debating.* Each year two or more intercollegiate debates occur. In addition there are several debating societies organized by the different classes.

5. *Student Publications.* The students of the College publish a school paper, *Student Life,* which makes its appearance once a week and contains timely editorials, news items, announcements, reports and forecasts of College activities.

6. *Lyceum Course.* Each year the Student Body presents from four to six lectures or musical organizations, of national or local repute. These entertainments are free to members.

The junior class publishes the College Year Book, christened *The Buzzer.*

CLUBS. Not affiliated with the Student Body Organization, and standing largely for the interets of the various schools, are the following clubs:

The Agricultural Club, which aims to keep its members in touch with current events in scientific agriculture. Special lectures, often illustrated, are given at intervals throughout the season.

Home Economics Club. The Home Economics Club is composed of the students in Domestic Science and Arts. Other students and instructors are eligible to associate membership. The object of the club is to keep students in touch with movements connected with their work and to promote interest in home economics work. Lectures and exhibits are given in connection with the club.

The Commercial Club, working to promote the interests of

the Commercial School, to popularize the commercial courses and to consider matters of interest not encountered in routine work. The club maintains an annual lecture course, given by prominent men throughout the state on topics of special interest to the business man. All commercial students of college grade are eligible to membership.

The Delta Theta Sigma, a chapter of the national honorary fraternity for students in Agriculture. Members are chosen for scholarships, being selected from among the upper two-fifths of the junior and the senior classes in Agriculture.

The Mechanic Arts Association is designed to promote the social and intellectual interests of the students in that school. All the teachers and all the regularly enrolled students of that school are eligible to membership. Monthly meetings are held throughout the year at some of which lectures are given by specialists.

The Agora, a fraternal organization open to men who have won places on the intercollegiate debating teams. Its purpose is to foster debating in the College and to keep alive among the old debaters an interest in debating contests.

A number of fraternities, sororities and other social organizations are also in successful operation.

STUDENT EXPENSES. Tuition is free. Utah students pay an annual entrance fee of $5. Students registering from other States must pay $25. The privileges of the library and museums are free. In most of the laboratory and shop courses students are charged an incidental fee of $1 per credit hour. The total amount varies in each case in accordance with the course taken, ranging from $2.00 to $13.00 a year.

Every regular student must pay a Student Body fee of $5.00 for which a ticket is issued admitting him to all the activities controlled by the Student Body Organization,—athletic events, foot ball, basket ball, base ball, and track, dramatic and musical entertainments, socials, lectures, etc. This system has been found to be a great saving to the students and a most excellent means of fostering proper interest in student activities.

All the boys during three years of their course are required to take Military Drill and must purchase a military uniform. To this rule there is *no exception* unless a very unusual reason exists. This uniform is obtained through the Secretary of the College at actual cost, about $15.00, and has been found more serviceable and far more attractive in appearance than civilian clothes of the same price. With proper care one uniform will last two years.

All students in Domestic Science must provide themselves with two white aprons, two pairs of white half-sleeves, and two holders, six inches square.

All girls taking physical culture must provide themselves with a gymnasium suit and gymnasium shoes. These may be procured at the College. Cost, about $4.00.

The fee charged for a certificate of graduation is $2.50; and for a diploma, $5.00. Students are held responsible for any injury done by them to the College property.

Good board and rooms can be obtained in private houses for $3.50 to $4.50 per week. By renting rooms and boarding themselves, students are able to reduce considerably the cost of room and board. The College maintains a cafeteria where, for a few cents, students may get a hot luncheon daily.

The cost of necessary books and stationery ranges from $10.00 to $15.00 a year.

WINTER COURSE. In order to be of the greatest service to the greatest number of people the College offers, and has offered annually since its opening year, a series of winter courses. Hundreds of persons, young and old, men and women, unable to atend school at any other time, have in the past taken advantage of this opportunity, and the number increases each winter. These courses furnish instruction in Agriculture, Home Economics, Mechanic Arts, and Commerce. In addition, the student is permitted to take any course or courses in any of the other departments for which he may be prepared. All the work is elective. For further information see the work outlined in the Schedule of Courses.

SUMMER SCHOOL. The College maintains, as an integral part of its work, a summer session, beginning early in June, and continuing for six weeks. Every department of the College is represented, the courses of instruction being arranged to meet the peculiar needs of summer students. For the benefit of teachers, special courses are provided in addition to the regular work of the College. Students desiring to make up conditions or prepare for advanced work are given all assistance possible. The entire equipment of the institution is available for the summer session, and every care is taken to preserve the standard and the spirit of the college. No admission requirements are prescribed, but students in all departments are directed by instructors to those courses in which they may pursue work to the best advantage. Arrangements have been made with the State Board of Education to accept Summer School credits in individual subjects in lieu of examination. An entrance fee of $5.00 is charged for each course for which the student registers. Board and rooms can be secured throughout the city at the usual prices. The Special Summer School Circular will be sent on request.

NORMAL TRAINING. For the purpose of providing specially trained teachers of domestic science and arts, agriculture, and mechanic arts, arrangements have been made whereby the graduates of the State Normal School of the University may enter the degree courses of the Agricultural College and there obtain technical work in Home Economics, Agriculture, and Mechanic Arts. All the work done in the State Normal School will be credited the candidates for the professional degree.

Graduates from the degree courses in Home Economics, Agriculture, and Mechanic Arts of the Agricultural College will be given the normal certificate upon the completion of one year of professional work at the State Normal School.

RECITATION SCHEDULE. The recitation periods, commonly known as hours, are fifty minutes in duration and begin at 8:30 a. m. After the third hour there is a daily intermission of 20 minutes for general devotional exercises. From 12 m. to 2 p. m.

the Cafeteria, or College Restaurant, will be open. The fourth period (from 11:20 to 12:10) is given to Military Drill. The following table shows the entire schedule:

1 hour, 8:30— 9:20.
2 hour, 9:20—10:10.
3 hour, 10:10—11:00.
Chapel, 11:00—11:20.
4 hour, 11:20—12:10.
5 hour, 12:10— 1:00.
6 hour, 1:00— 1:50.
7 hour, 1:50— 2:40.
8 hour, 2:40— 3:30.
9 hour, 3:30— 4:20.

Buildings and Equipment.

The Agricultural College of Utah is in Logan, the county seat of Cache Conuty, one of the most prosperous agricultural counties in the State. The city has a population of about 7,000; it is noted for its freedom from vice, is quiet, orderly, clean and generally attractive, with neat homes, good, substantial public buildings, electric lights, a sewer system, and a water system. Cement pavements and an excellent street-car line, extend from the Station to the College. The citizens are thrifty and progressive. The College is beautifully situated on a broad hill overlooking the city, one mile east of Main street, and commands a view of the entire valley and of its surrounding mountain ranges. The beauty of the location is perhaps unsurpassed by that of any other college in the country. A few hundred yards to the south is the Logan River. A mile to the east is a magnificent mountain range and a picturesque canyon. In other directions are towns and farms covering the green surface of Cache Valley, and distinctly visible through the clear atmosphere. The valley is a fertile, slightly uneven plain, 4,500 feet above sea level, about twelve by sixty miles in dimensions, almost entirely under cultivation and completely surrounded by the Wasatch Mountains. It is one of the most attractive and healthful valleys in the western region.

The College now has nearly twenty buildings, all modern, all well lighted and well heated by a central heating plant and all carefully planned and constructed to meet the purpose for which each was intended.

The Main Building, of brick and stone, is 360 feet long, 200 feet deep in the central part, and four stories high. It contains the large auditorium, seating about 1,500; the administrative offices; the library; and all the various class rooms and laboratories except those of Mechanic Arts and Home Economics.

THE WOMAN'S BUILDING, is a large four-story brick building fifty by eighty feet, situated at three minutes' distance from the Main Building on the north-west corner of the campus. Cement walks connect it with the other school buildings and with Main Street. It is one of the largest and best equipped structures devoted entirely to Domestic Science and Arts in the whole Inter-Mountain Region. It has automatic elevator service from the locker room and laundry in the basement to the spacious rooms on the fourth floor. On the first floor there are a large lecture room used for a class room and also for public lectures, a small class room and a kitchen-laboratory equipped with gas for individual work, a library, and an office. On the second floor are the second kitchen-laboratory, equipped with electricity for individual work, a small kitchen, a dining room, a chemical and a research laboratory. The third floor is devoted entirely to the Domestic Arts and contains the office, millinery room, sewing, dressmaking and fitting rooms with complete equipment. The fourth floor contains a rest room, class room, and a large room used for museum material.

THE DEPARTMENT OF PHYSICAL EDUCATION has its home in the Thomas Smart Gymnasium, completed at an expense of over $65,000.00 and today the finest and most complete college gymnasium in the Rocky Mountain region. It contains a main exercise hall, 114 by 70 feet, which is well lighted and ventilated. The steel work overhead gives attachment for the hanging apparatus and the equipment is so arranged as to be quickly put in place, or hoisted out of the way leaving a clear floor space for large classes or games. Ten feet above the main floor is a running track, and on the same level, a handball court and a wrestling and boxing room.

The Women's Gymnasium occupies the south end of the building and has a floor space of 70 by 40 feet. On the north end of the building is a swimming pool, 60 by 24 feet supplied with filtered water, affording superb opportunity for swimming and aquatic sports. In the center of the building are two large dress-

ing rooms equipped with steel lockers, shower and tub baths, a steam room and all the conveniences found in modern gymansiums.

The athletic field and tennis courts are situated close to the gymnasium and afford opportunities for all forms of athletic sports.

THE EXPERIMENT STATION BUILDING, a two-story brick structure 45 feet long and 35 feet wide, contains the offices of the station staff, a reading room, and a dark room for photographic work.

THE MECHANIC ARTS BUILDING is a two-story brick structure. It has a ground floor area of 20,000 square feet, divided into five groups of rooms, viz.: wood working department, machine shop, forging rooms, drafting rooms and agricultural engineering. On the second floor are the Mechanic Arts Museum, blue-printing room, room for painting and staining, and class rooms.

This building is also the home of the department of Agricultural Engineering and contains a laboratory specially adapted to this class of work. Its equipment consists of several gasoline engines of from two to fifteen horse-power and a horizontal steam engine of six horse-power. The testing laboratory contains a Riehle Bros. hundred thousand pounds testing machine and also a cement testing machine of the same make. The laboratory further contains transits, levels, tapes, leveling rods, range poles, and other apparatus used by students in the work in surveying, irrigation, drainage, and road construction. The drawing rooms and shops of the Mechanic Arts Department with their complete equipment are available for students in Agricultural Engineering.

The machine shop is equipped with the following: a 15 H. P. motor, a 24 in. planer, two crank shapers, two speed lathes, six 14 in. engine lathes, a 36 in. radial drill, two universal milling machines, a universal tool and cutter grinder, emery wheels, power hack-saw, twenty machinist's vises with work bench, tool cabinet,

tool room and case containing a supply of small tools for general use.

The drafting room contains thirty-five drawing tables, boards, model coordinate planes, filing case and blue-printing facilities.

The Forge Shop contains thirty-two down-draft forges, each equipped with a full set of tools, a drill press, a power hammer, and an emery wheel; all driven by electric power.

The Carriage Shop contains four benches each equipped with the necessary tools for carriage work.

A farm machinery building is to be erected in the near future in the vicinity of the Mechanic arts building.

A THREE-STORY LABORATORY BUILDING will be constructed next year and when finished will be occupied by the departments of chemistry, physics, and bacteriology.

At present THE BACTERIOLOGICAL LABORATORY is well equipped with modern apparatus for the work offered. Each student is provided with a high-power Leitz or Bausch and Lomb microscrope. Microscopes with triple nose-piece, fitted with 1-12 and 1-16 oil-immersion objectives, Abbe condenser, and rotary and mechanical stage, are used for identification work. The equipment includes an autoclav, hot-air and steam sterilizers, incubator, refrigerators, ærobic plate, apparatus, anærobic tube apparatus, microtome, analytic balance, cages, permanent mounts, precision glassware, chemicals, stains, and culture media. To encourage more careful work, the students are provided with individual lockers.

THE CHEMICAL LABORATORIES are also well equipped for elementary and advanced work in chemistry. Several valuable collections of gums, oils, coloring matters, foods, etc., are important aids to the students in this department. The laboratories are fitted with water, gas, hoods, and all other conveniences.

THE PHYSICIAL LABORATORY EQUIPMENT is very complete, consisting of all the necessary pieces of aparatus for class demonstration; a set of apparatus for elementary laboratory work, suf-

ficient for fifteen students working on the same experiment; and all pieces required for advanced work in mechanics, heat, electricity and magnetism, and light, including high grade electricial measuring instruments of all kinds, standard and variable resistances, induction coils, dynamos, motors and rectifiers, heliostat, interferometer, spectrometers, polariscope, thermostat, finest of calorimeters, Beckman thermometers, thermocouples, cathetometer, Atwood machine, sensitive chemical balances, thermograph, barograph, anemometer, etc. Gas, water, compressed air, continuous and alternating current electrical power are available.

THE PHYSIOLOGICAL LABORATORY, located on the first floor, in the south wing of the Main Building, is supplied with skeletons both articulated and disarticulated, many enlarged models of organs, a *papier mache* manikin, and complete slides of all the tissues. Students have access to a set of vertebrate skeletons and to an excellent collection of native animals. The necessary reagents for physiological experimentation are at hand.

THE ZOOLOGICAL AND ENTOMOLOGICAL LABORATORY is equipped with water and gas and has for use in laboratory work improved instruments, embryological models, skeletons from the vertebrate groups, collections of mounted birds, mammals, reptiles and fishes. Also alcoholic material in many groups. The Department has economic and systematic collections of insects, these with the private collections and libraries of the professors are available to the students taking work in the department.

THE BOTANICAL AND PLANT PATHOLOGICAL LABORATORY contains a large herbarium of flowering plants, ferns, horsetails, fungi, and algae for use in systematic botany and in plant diseases. The laboratory is splendidly equipped to do general work in all courses offered, as well as in research work. The apparatus consists of microtomes, both rotary and free hand, compound microscopes, dissecting microscopes, autoclave, Arnold sterilizer, a hot-air oven, an electrically equipped paraffin bath, balances, clinostat, culture room, together with all necessary glassware,

reagents and stains to carry on successful botanical work. The department maintains a good working library in connection with the laboratory.

THE DEPARTMENT OF ANIMAL HUSBANDRY is equipped with good representatives of the various breeds of cattle, horses, sheep and hogs most common in the western section, and with barns for keeping the same. The latest methods of livestock management are practiced. The Stock Judging Pavilion has recently been built. Here the classes in stock judging are held, making it possible to do judging work in all kinds of weather.

In addition to this, a college creamery is maintained, where butter and cheese of the best quality are made, according to the latest methods.

THE POULTRY BUILDING covers 230 feet by 25 feet, with yards 100 feet wide on each side. The building is divided into two sections:—first, the brooder section, with a capacity for about one thousand chicks; second, the experimental section, with a capacity for over five hundred hens. This section is divided into thirty-two pens; it is shut off from the public and used for conducting experiments on the different questions of poultry culture. The building is heated by a hot water system. In the front part are an office, a feed and weigh room, a store room, and a sleeping apartment.

A modern Incubator Cellar has recently been provided which is well equipped with the latest incubators of different makes, egg distributing aand turning tables, pedigree hatching trays, hygrometers, thermometers, acetylene and electric egg testers.

THE HORTICULTURAL DEPARTMENT is equipped with two greenhouses where laboratory instruction may be given in the propagation of horticultural plants, the practice of floriculture and vegetable gardening. The many apple orchards in the close vicinity give exceptional opportunity to study orchard problems and conduct laboratory exercises along the lines of pruning, grafting, picking and packing apples, etc.

THE VETERINARY HOSPITAL, a two-story stone and frame structure, 18 by 42 feet, containing a well-equipped dispensary, operating room, and stalls for patients, gives ample room for all the work in veterinary medicine at present offered by the College.

AGRONOMY. The Department of Agronomy is provided with a large collection of agricultural plants, seeds and soils, representing the main crops and types of soil of the inter-mountain region. The College farms are equipped with the best and latest farming implements and machinery for carrying on work scientifically and successfully. They are divided, for illustrative and experimental purposes, into numerous plats on which many varieties of farm crops are grown and upon which important experiments are carried on.

The Soil Physics Laboratory has a good supply of apparatus for accurate and up-to-date work, including balances, microscopes, drying ovens, hot-water baths, compacting machines, and apparatus for determining the mechanical analysis of soils.

The Farm Crops Laboratory has recently been equipped with gas and has a large supply of farm crops on hand for illustrative and laboratory work. It is supplied with magnifying glasses, a Grey seed weigher, a vertical air-blast seed separator, a seed germinator and tester, as well as enlarged and dissectible models of various grains, grasses and root crops.

THE COMMERCIAL DEPARTMENT occupies the entire third floor of the front of the Main Building, covering a floor area of 7,225 square feet. Each room is specially designed and furnished for the work to be conducted in it. Practice is given in the methods of modern banking, wholesale, retail, and commission trade, and freight, insurance and real estate offices. The room for typewriting contains a full complement of standard machines. The rooms for stenography and penmanship are conveniently furnished for efficient work.

THE COLLEGE MUSEUMS contain a large number of specimens illustrative of geology, mineralogy, paleontology, and vertebrate and invertebrate zoology, including a large series of the insects of

the intermountain region; also an extensive series of plants of the western highlands. An extensive collection of grains represents the produce of Utah and other states. Contributions of fossils, ores, animals, plants, relics, or other material of value to the museums, will be highly appreciated. All gifts are labeled and preserved, and the name of the donor is kept on record.

THE ART ROOMS, composed of six studios, are supplied with plain and adjustable tables for the elementary work in drawing and design, also with easels and model stand for the studio. Individual lockers for students and cases for the materials of the department are supplied. Casts from the old masters in sculpture, reproductions of great paintings, examples of Japanese art, still-life models, drawing boards, and draperies are included in the equipment, as well as a valuable collection of ceramics, textiles and books on design, household art, sculpture, painting, and architecture.

THE LIBRARY, with the offices and reading room, occupies the entire front of the second floor of the Main Building. The large, well-lighted main room is one of the most cheerful and inspiring reading rooms in the country, with an unsurpassed view over the entire valleye. Growing plants, pieces of sculpture, and a number of oil paintings further enhance the attractiveness of the environment. The books are shelved on the Library Bureau standard steel stacks, arranged in alcoves, where tables also are provided for advanced students wishing to do special study.

The library now contains about 23,000 bound volumes and a large number of pamphlets. The books are classified by the Dewey decimal system, and there is a complete dictionary card catalogue of the library. The shelf list is also on cards, and forms a classed catalogue for official use.

The library is a depository for United States public documents, and receives practically all material printed by the government. The files of the U. S. Agricultural Department and the State Experiment Stations publications are nearly complete, the bulletins are bound, and both made easy of access by the

printed card catalogues. There are one hundred and twenty-five periodicals on the subscription list, besides about eighty which are received as exchanges for the publications of the College and of the Experiment Station. Thirty-five newspapers of the State are regularly received and placed on file in the reading room.

The land occupied by the College and its several departments embraces about 116 acres. Of this, thirty-five acres constitute the Campus, laid out with flower-beds, broad stretches of lawn, and wide drives and walks leading to the College buildings. During the summer the conservatory contributes specimen plants for lawn decoration.

Immediately east of the Main Building are the parade grounds and athletic field, of about ten acres. The farms comprise 71 acres; the orchards and the small fruit and vegetable gardens, 10 acres. All parts of the College grounds are used by the professors in charge of instruction in agriculture and horticulture and by the Experiment Station staff for the purpose of practical illustration in their respective departments, and for experimentation.

The Agricultural Experiment Station.

THE AGRICULTURAL EXPERIMENT STATION is a department of the College, supported by Congressional appropriations, supplemented by the receipts from the sales of farm products, and by such appropriations as the State Legislature makes from time to time to carry out special lines of work, or for the establishment and support of sub-stations. The station was created for the special purpose of discovering new truths that may be applied in agriculture, and of making new applications of well-established laws. It is, therefore, essentially a department devoted to research; and as such, it does the most advanced work of the College.

THE EXPERIMENT STATION is not, in the ordinary sense, an institution where model farming is carried on. It has a much higher purpose. The practices of the farmer are subjected to scientific tests, in order to determine why one is bad and the other good. Acting on the suggestions thus obtained, new lines of investigation are begun, in the hope that truths of great value to the farmer may be discovered.

THE STATION confines its efforts as far as possible to the particular problems encountered by the farmers of the intermountain regions. Irrigation is the foundation of western agriculture and therefore irrigation has received the greatest amount of attention at the hands of this station. Thousands of dollars have been spent in the equipment of experimental plots where the value of different amounts and different methods of application of water have been studied and the underlying principles brought out. Arid farming is the western method of extending agriculture beyond the confines of the irrigation canal, and its problems are only second in importance to those of irrigation in the development of the West. A number of experimental farms are maintained in which every effort has been made to increase the possibilities of production of this arid land. At the present time, many of the problems under investigation involve the water-holding capacity of soils, the water requirements of crops, the

movement of plant foods and questions which are fundamental to all systems of agriculture.

Other problems vitally affecting the agricultural West are under investigation. Breeding experiments for the improvement of sugar beets, dry land grains, alfalfa and poultry are in progress. Studies of insect pests and plant diseases affecting western crops and orchards have received consideration. The problem of producing fruit free from worms has been practically solved. The control of the alfalfa weevil is the present problem. The development of better cropping methods, care and feeding of livestock, the development of the dairy industry, and the general betterment of western agricultural conditions are among the problems the station is attemping to solve.

State appropriations are granted under provision that the Southern Experiment Farm and the arid experiment farms shall be maintained and that work in irrigation, drainage, the study of the alfalfa weevil, shall be continued. Publications of the station are also provided for. These are issued in the form of bulletins containing the results of experimental work, of circulars containing timely and practical information on various subjects, and an annual report giving account of the station's activities during the year, together with an itemized statement of its expenditures. The bulletins and circulars are published at irregular intervals.

The Experiment Station has a high educational value. Nearly all the members of the Station Staff are also members of the College Faculty, and the students, therefore, receive at first hand an account of the methods and results of the work of the Station, and training in their application. The opportunities that the Experiment Station offers for advanced work in several branches of science are of great importance. The scientific method and spirit characterize all the operations of the Station, and none can fail to be benefited by a study of the experiments that go on at all times of the year.

The Station Staff are always glad to assist the advanced students of the institution in any investigatioin they may vish to undertake.

Extension and Demonstration Work.

The Extension Division of the Utah Agricultural College was established for the purpose of disseminating all the work of the college among the people of the state.

DEPARTMENTS.

This work has of late years become so broad in scope that it has been found advisable to segregate its activities into separate departments, as follows:

Farmers' Institutes and Schools.
Juvenile Clubs and School Co-operation.
Improvement Associations for Women.
Farm Demonstration.
Publications.
Correspondence Studies.
Trains, Fairs and Exhibits.

The extension work is done by the members of the Extension Staff; lectures from among the farmers of the State, and in addition service not exceeding two weeks in duration in any year, may be expected from any member of the College faculty, providing that no more than six days consecutively are devoted to Extension work. Arrangements are also made for co-operative work with the United States Department of Agriculture.

FARMERS' INSTITUTES AND SCHOOLS.

During the year 1912-1913 Farmers' and Housekeepers' Institutes and Schools (of from one to twelve days' duration) were held in every county of the State. In addition a Farmers' Demonstration Train was operated from Feburary 18th to March 13th in co-operation with the San Pedro, Los Angeles and Salt Lake Railroad, this train emphasizing particularly the live stock industry. The members of the staff served as judges at county

and state fairs, as teachers' institute lcturers, and in various other ways.

JUVENILE CLUBS AND SCHOOL CO-OPERATION.

In this Department affiliation is made with all organizations of boys and girls for the creation of interest in agricultural and home economics problems. Contests of various kinds are conducted under the supervision of this Department. During the year, clubs were organized in seventeen counties.

IMPROVEMENT ASSOCIATIONS FOR WOMEN.

This Department operates through existing women's organizations of the State of a religious, literary, or civic nature. The Extension Division supplies such organizations with study outlines, lecture material, reference books, and, by lectures and otherwise, guides the activity of the organizations to greater usefulness. Twenty home economics associations have been formed, sixteen of which are using study outlines furnished by the Department.

FARM DEMONSTRATION.

Through co-operative agreement with the Office of Farm Management of the United States Department of Agriculture, a State Leader in Farm Management has been appointed who is at the same time head of the Department of Farm Demonstration of the Extension Division. The last State Legislature appropriated $6,000 for 1913 for farm and home economics demonstrators in the counties. This amount, according to the bill, increases at the rate of $2500.00 per year until the total of $25,000 per year is reached. Through this fund and by co-operative arrangement with various agencies in the State it is proposed to place ultimately a farm and home demonstrator in each county of the State. These demonstrators are to assist the people directly by

bringing to them the latest results pertaining to good agriculture and house keeping.

Through co-operation with the Dairy Division of the United States Department of Agriculture state-wide work has been undertaken in the interest of better dairying. The Staff organizes cow testing associations; encourages private records of herds; advises in the matter of dairy buildings and silos, and assists in the purchase of stock.

SCHEDULE FOR 1913-1914.

The following institutes and schools will be held in 1913-1914:

Nov. 4.....Minersville, Beaver County; General
Nov. 5 and 6.....Beaver, Beaver County; General
Nov. 7.....Kanosh, Millard County; General
Nov. 8.....Meadow, Millard County; General
Nov. 10 and 11.....Fillmore, Millard County; General
Nov. 12..... Holden, Millard County; General
Nov. 13.....Oak City, Millard County; General
Nov. 14 and 15.....Oasis, Millard County; General
Nov. 17 and 18.....Tooele, Tooele County; General
Nov. 19 and 20..... Grantsville, Tooele County; General
Nov. 21 and 22..... Taylorsville, Salt Lake County; General
Nov. 24.....Draper, Salt Lake County; General
Nov. 25 and 26..... Lehi, Utah County; General
Nov. 28 and 29.....Spanish Fork, Utah County; General
Dec. 1-5 (incl.).....American Fork, Utah County; General
Dec. 1-5 (incl.).....Payson, Utah County; General
Dec. 8-12 (incl.)..... Nephi, Juab County; General
Dec. 15-16 (incl.)..... Bountiful, Davis County; Garden Crops
Dec. 17-18 (incl.)..... Farmington, Davis County; Garden Crops
Dec. 19..... Kaysville, Davis County; Garden Crops
Dec. 20.....Clearfield, Davis County; Garden Crops

Jan. 5-9 (incl.) ..... Plain City, Weber County; General
Jan. 5-9 (incl.) ..... Hooper, Weber County; General
Jan. 12-16 (incl.) ..... Morgan City, Morgan County; General
Jan. 12-16 (incl.) ..... Coalville, Summit County; General
Jan. 19-23 (incl.) ..... Murray, Salt Lake County; General
Jan. 26 to Feb. 6 (incl.) ..... Logan Round-up.
Dry Farming and Horticultural Conventions of State Associations (first four days of first week). Dairy Convention of State Association (first two days of second week).
Feb. 11 to 21 (incl.) ..... Richfield Round-up
Feb. 23-27 (incl.) ..... Mt. Pleasant, San Pete County; General
Feb. 23-27 (incl.) ..... Manti, San Pete County; General
March 2-14 (incl.) ..... Cedar City, Iron County; General
March 16-20 (incl.) ..... Brigham, Box Elder County; General
March 16-20 (incl.) ..... Tremonton, Box Elder County; General
March 23-27 (incl.) ..... Heber, Wasatch County; General
March 30-31 (incl.) ..... Huntington, Emery County; General
April 1-2 (incl.) ..... Orangeville, Emery County; General
April 3-4 (incl.) ..... Ferron, Emery County; General
April 6-7 (incl.) ..... Price, Carbon County; General
April 8-9 (incl.) ..... Wellington, Carbon County; General

This program omits early fall (1913) institutes held in Wasatch and Uintah Counties and early spring (1914) institutes held in Wayne, Garfield, San Juan, Kane, Washington, Iron and Piute Counties, and the summer (1913) institutes held in Rich County.

CORRESPONDENCE DEPARTMENT.

At the commencement of the year 1911-12 the Agricultural College established a Correspondence Department as a branch of the Extension Division. For several years the College has had a few students doing work in agricultural and kindred subjects by correspondence but now the institution has regularly recognized

this sort of work as one of the functions of the Extension Division and has created a special department to handle it.

The College is no longer regarded as an Institution maintained solely for those who receive instruction in its class-rooms and laboratories. It is for all the people everywhere. Many people of all ages are unable to leave their work to receive the advantages of a college education; it is for such that this department has been created.

The registration in the Correspondence Department includes men and women from all over the State of Utah and the neighboring states, and the old as well as the young. The average age is over thirty years. Work has been taken in practically every course offered by the Institution.

The Correspondence Department further conducts a "Colonists' Course" and a "Housekeepers' Course." The former is a special course for those who have come into Utah recently or those who, having lived here for years, wish to undertake agriculture as a pursuit. This course gives in a brief but practical fashion the fundamental principles of agriculture in the semi-arid West. Such topics as Land Values and Agricultural Production, Homestead Laws and Reclamation Acts, Utah Soils, Principles of Irrigation Farming, Irrigation Law, Farm Crops, Dry Farming, Horticulture, the Extermination of Insect Pests, Plant Diseases, System of Live Stock Farming, Horse Breeding, Poultry Industry, Marketing of Agricultural Products, and Educational Facilities are fully treated. The entire aim of the course is to furnish such information as will meet the individual needs of those enrolled and thereby enable them to become more successful farmers and stock raisers. The Colonists' Course may be completed in from three to five months. The Housekeepers' Course embodies the same general idea, namely, of conveying in a compact fashion and in a brief space of time, the rudiments of Domestic Arts and Domestic Science in their most practical application to the everyday life of the home.

Schools and Courses of Study.

For the purpose of more efficient administration, the College is divided into six schools: (1) The School of Agriculture; (2) The School of Home Economics; (3) The School of Agricultural Engineering; (4) The School of Commerce; (5) The School of Mechanic Arts; (6) The School of General Science. In addition the last two years of a High School Department are maintained. These schools are educationally interdependent, and together form a unit.

The School of Agriculture offers a four-year college course with opportunity to major in Agronomy, Horticulture, Animal Husbandry and Dairying, Agricultural Chemistry, Bacteriology, Plant Pathology, Veterinary Science, or Economic Entomology.

The School of Home Economics offers a four-year college course with opportunity to major in Food and Dietetics, Home Sanitation and Construction, Domestic Arts and Art.

The School of Agricultural Engineering offers a four-year college course with the opportunity to major in Irrigation and Drainage, Farm Mechanics, Agricultural Surveying, Roads, Rural Architecture, Rural Sanitation and Agricultural Technology.

The School of Commerce offers a four-year college course with the opportunity to major in Accounting, Economics and Political Science.

The School of Mechanic Arts offers a college course in Mechanic Arts, with the opportunity to major in Woodwork, Iron Work, and Machine Work.

The School of General Science offers a four-year college course in General Science.

Each school also offers *Practical Year and Winter Courses* which may be taken by mature students fitted to follow them.

THE SCHOOL OF AGRICULTURE.

Agriculture is one of the most promising of modern professions. It is growing very rapidly, and owing to the scientific foundation that recent years have given it, large numbers of intelligent people are adopting it as their means of livelihood. The new agriculture is not a profession of unceasing toil. On the contrary, the freedom, health, intellectual activity, and profit to be obtained from intelligent farming are attracting the best classes of people. Utah and other western states are offering splendid opportunities to those who prepare themselves for scientific farming. There is a great demand for men who can supervise large farm enterprises; there is a greater demand for men who can act as experts, experimenters or teachers in the schools and other institutions in the State and National Government. The supply of such men does not begin to equal the demand.

The instruction in agriculture is provided by the departments of Agronomy, Animal Husbandry, Horticulture, Entomology, Chemistry, Poultry Husbandry, Bacteriology, Plant Pathology, and Veterinary Science. The courses of these departments are so arranged as to enable the student to lay a foundation upon which he can build a successful career as a farmer, or develop into a specialist in some one line of agriculture.

Experience has shown that practically all of the students who take agriculture come from the farms, and it is asseumed that they are acquainted with the various manual operations of farm work. The design of the courses, is, therefore, to teach the sciences that underlie practical agriculture, and sufficient supplementary studies to develop the agricultural student to the intellectual level of the educated in the other professions.

The general and departmental libraries enable the student to become acquainted with a wide range of agricultural and related literature: the laboratories of the College, and the Experiment Station afford opportunity for training and experience that it would be impossible to get from books alone.

THE SCHOOL OF HOME ECONOMICS.

The courses in Home Economics aim to train and broaden the minds of women, and to enable them to meet more intelligently the home demands of modern life. When woman has learned to apply the principles of science, economics and art to the problems of daily living she will realize that housekeeping is an occupation worthy of the best thought which results in the betterment of home life and more efficient living. Formerly the higher education of woman led her away from the practical interests of the home. The recent establishment of Domestic Science courses in many leading colleges and universities shows a public demand for education toward home life rather than away from it. The State of Utah wisely established such courses when this College was first organized; and the favor with which the work has been received by the public shows the wisdom of the plan. The Home Economics Courses have been strengthened and improved each year, and better facilities for instruction and study have been provided. Four departments devote themselves exclusively to the special work of the School of Home Economics; namely, Foods and Dietetics, Domestic Art, House Construction and Sanitation, and Applied Art. The four-year courses give the same training in mathematics, in English, and in science as other baccalaureate courses, together with a broader culture in literature and modern languages than is offered in any other. Both in the preliminary work and in the advanced years, special studies in the various lines of home science are prescribed in logical order as the distinctive feature of the course. The Practical Courses in Home Economics are offered for the benefit of young women who do not wish to take the studies of the regular college years, but desire to devote more time to the subjects of special interest to women.

THE SCHOOL OF AGRICULTURAL ENGINEERING.

The rural problem has many phases. An adequate and self-perpetuating country life cannot be introduced simply by teaching

people how to raise grain and fruit, and how to manage and improve livestock. The country could be filled with farmers well trained in these branches and still there might be a great lack in many of the elements necessary for a well-balanced and efficient rural community. There are many problems having to do with the entire community rather than with the individual farmer, and these problems must be solved by men with training for that kind of work rather than by those trained to produce crops and livestock on a single farm. Again, there are questions on the individual farm which have to do with construction rather than with production from the soil. These questions, if they are to be answered properly, must be answered by men with special training.

In the past, agricultural colleges have given their attention to the direct questions of farming, but the time has come when the entire rural problem must be met. The farm, aside from producing good crops, must be a desirable and healthful place to live. The buildings must be so arranged and constructed as to give the maximum of efficiency and comfort and at the same time have proper sanitary provision. The rural roads must be such that the farmer can move his crops with small expense, and can himself go to town with comfort and speed. The machinery of the farm must be so constructed and cared for that it will be reliable and do its work economically. The limited supply of irrigation water must be so used that it will produce the maximum returns. There must be manufacturies for working over the raw materials of the farm into high-priced finished products. All these necessities demand that there shall be men trained for the work.

These various activities may be classed under the general heading of Agricultural Engineering. To meet the demand for this work, the Utah Agricultural College has organized a School of Agricultural Engineering with seven departments. The work is designed not only to fit men as specialists in any single department, but also to give them such general training in agricultural engineering, that they may be able to solve all but the most tech-

nical engineering problems of an entire rural community. The courses will also be very helpful to the man who is going back to the farm, who does not wish to do the work of a trained engineer.

Students may specialize in Irrigation and Drainage, Farm Mechanics, Agricultural Surveying, Farm and Public Roads, Rural Architecture, Rural Sanitation and Public Health, or Agricultural Technology. These courses all lead to the degree of Bachelor of Science.

THE SCHOOL OF COMMERCE.

The purpose of the School of Commerce is to give opportunity for a liberal education with special emphasis upon the commercial and industrial phases of life. Persons who complete the Commercial courses should be better prepared to assume leadership and responsibility in business and in the various industries and professions. In order to meet the growing demands and to keep pace with recent tendencies in business education, students working for the bachelor degree may take their major in Economics and Political Science, designed for those who wish to take the greater part of their work in Economics, Law or kindred subjects; Accounting, designed for public accountants and those engaged in technical commercial work; and Industrial Management, designed to give the students a firm grasp of the essentials of agriculture, mining, manufacturing, economics, law and accounting, so that they may manage these industries successfully.

In addition to these college courses, Practical year and winter courses are offered.

For those who wish to enter the professions of law and medicine, the commercial courses afford excellent preparation. Students who complete the courses will be prepared for positions as teachers in commercial schools. The demand for thoroughly qualified teachers is greater than the supply, and many desirable positions as industrial managers are open to those who can do the work.

THE SCHOOL OF MECHANIC ARTS.

The course in Mechanic Arts is intended to qualify students as artisans and teachers of manual training, hence the practical work of the shops and drawing room is emphasized. The course admits of specialization in wood work, forging, machine work, foundry, horse-shoeing, carriage building and cabinet making. In this work are developed correct methods of using tools and of doing mechanical work neatly, efficiently and accurately. In all the departments of the school work is done from series of shop drawings, arranged in progressive order, giving both the deatails of the exercise and a drawing of the finished product. Sufficient work is given in English, mathematics and elementary science to furnish a college education. All products of the shop are the property of the school, students being allowed to take away specimens of their work only by permission.

The trades have changed greatly in recent years. Science has given them a secure foundation, and the wages of artisans have advanced so rapidly as to make the trades desirable as a means of livelihood. The lack of skilled artisans should encourage many boys to go into this kind of life work. The work offered by this school is a good preparation for engineering courses.

A four years' college course leading to the degree of Bachelor of Science is offered as well as short Practical year and winter courses.

THE SCHOOL OF GENERAL SCIENCE.

To carry out the work of the several technical schools of the College, an efficient instructing force and a complete modern equipment have been provided in the natural and physical sciences, as well as in mathematics, history, language, etc. This makes it possible to satisfy the growing demand for strong baccalaureate courses affording a broad general education in the earlier years,

and admitting of specialization later, when the student has matured his plans. Such courses constitute the work of the School of General Science, and, paralleling the other degree courses of the College, lead to the degree of Bachelor of Science.

Upon completion of four year's work in General Science, students receive the degree of Bachelor of Science in General Science.

SCHEDULE OF REQUIRED WORK.

Every regular student who has presented 14 units of high school work for entrance, must complete 120 semester-hours before receiving his or her diploma. Students who have presented for entrance 11 units of high school work, under the old requirement, must complete 140 semester hours before receiving their diplomas. Of the required 120 hours, 16, forming the major, must be in one department. The minor of 12 hours must be taken in the same school as the major. This is the so-called *technical* work. Besides this a certain number of hours must be taken of *general* work, divided variously into different groups. These amount to 64 hours. Besides these, 28 hours of elective work are required. This may be shown in tabular form as follows:

SUMMARY OF REQUIREMENTS FOR GRADUATION.

(In Semester Credit Hours.)

Major Subject	16 hours
Minor Subject (must be in same school as the major subject)	12 "
Language Group	16 "
Exact Science Group	24 "
Social Science Group	12 "
Biological Science Group	12 "
Elective	28 "
Total	120 hours

The departments of instruction from which the major and minor subjects may be elected are grouped as follows:

REQUIRED WORK.

Technical Division.

Major 16 hours in one department.
Minor 12 hours in other departments, but in the same school.

SCHOOL OF AGRICULTURE.

Agronomy
Animal Husbandry
Chemistry
Bacteriology
Dairying
Entomology
Horticulture
Veterinary Science
Botany and Plant Pathology

SCHOOL OF AGRICULTURAL ENGINEERING.

Agricultural Surveying
Agricultural Technology
Farm Mechanics
Irrigation and Drainage
Roads
Rural Architecture
Rural Sanitation

SCHOOL OF HOME ECONOMICS.

Food and Dietetics
Home Sanitation and Construction
Domestic Art
Art

SCHOOL OF COMMERCE.

Economics
Political Science
Accounting
Typewriting (minor only)
Stenography (minor only)

SCHOOL OF MECHANIC ARTS.

Wood Work
Iron Work
Machine Work

SCHOOL OF GENERAL SCIENCE.

English
Foreign Languages
History
Chemistry
Geology
Mathematics
Physics
Bacteriology
Botany
Physiology
Entomology
Zoology
Music (minor only)
Art
Library Work
Drill
Physical Education

The departments of instruction from which the general subjects may be elected are grouped as follows:

REQUIRED WORK.

General Division.

LANGUAGE GROUP (16 hours)

English
German
French
Spanish
Latin

EXACT SCIENCE GROUP (24 hours).

Accounting
Chemistry
Geology and Mineralogy
Physics
Mathematics

SOCIAL SCIENCE GROUP (12 hours)

Economics
History
Politcal Science
Sociology

BIOLOGICAL SCIENCE GROUP (12 hours).

Bacteriology
Botany
Entomology
Physiology
Zoology
Veterinary Science

ELECTIVES—28 hours.

PRACTICAL COURSES.

When the Board of Trustees voted to begin the gradual elimination of all the regular high school courses in the fall of 1913, they also voted to establish a series of year and winter courses of a purely practical nature, in Agriculture, Home Economics, Mechanic Arts, and Commerce. These courses are not intended for young people of the high school age. To enter any of this work, a person must be over eighteen, or must have completed two years high school work. There will be no other entrance requirements, and no entrance examinations. Such are the courses given below. They are selected from the regular work of the college and these students are also allowed to take any course for which their training is adequate. No student is allowed to take work in Commerce, however, without taking at the same time some course in English.

AGRICULTURE.

FIRST YEAR.		SECOND YEAR.	
Agronomy 1	4	Animal Husbandry 1	4
Horticulture 1	3	Irrigation 1	3
Veterinary Science 1	3	Entomology 1	3
Poultry 1	3	Dairying 1	3
Shop	5	Shop	5

HOME ECONOMICS.

Students elect a minimum of eighteen hours from the following subjects, or from these and any others which they are qualified to pursue.

	1st Term.	2nd Term.
Domestic Art a and b	3	3
Domestic Science	5	5
Physiology 1	2	2
English a	5	5
Art	3	3
Gymnasium Work	1	1
Accounting 1	5	5

MECHANIC ARTS.

Students elect a minimum of eighteen hours of work from the following subjects or from these and any others which they are fitted to pursue, e. g., Agriculture, English, Accounting, Mathematics.

	1st Term.	2nd Term.
Carpentry a and b	5	5
Forging a and b	5	5
Machine Work a and b	5	5

COMMERCE.

FIRST YEAR.	1st Term.	2nd Term.
English	5	5
Business Correspondence	3	3
Accounting a	5	5
Stenography a	5	5
Typewriting	1	1
Physical Education	1	1
	20	20

SECOND YEAR.		
English	5	5
Accounting b	5	5
Stenography b	5	5
Commercial Arithmetic	3	3
Typewriting	1	1
Drill	1	1
	20	20

THIRD YEAR.		
Accounting c	5	5
English	3	3
Economics 11	3	3
Drill	1	1
Electives	6	6
	18	18

WINTER COURSES.

Winter courses will begin Tuesday, November 18, and close Saturday, March 28, as follows:

AGRICULTURE.

FIRST YEAR.		SECOND YEAR.	
Crops and Soils	5	Stock Judging	5
Fruit Growing	5	Insect Pests	5
Poultry Keeping	5	Veterinary Science	5
Shop Work	5	Farm Accounting	5
		Shop	5

(Not more than four may be taken.)

MECHANIC ARTS AND AGRICULTURAL ENGINEERING.

Farm Buildings and Machinery	5
Carpentry	5
Forging	5
Machine Work	5

COMMERCE.

The following subjects will be offered from which winter students may elect from 18 to 20 hours.

English	5
Business Correspondence and Spelling	5
Commercial Arithmetic	5
Penmanship	1
Accounting 1	1
Economics 11	3

SPECIAL STUDENTS.

Students of mature age who do not wish to receive a college diploma are allowed to make such selection of studies in any school as they desire, provided they have done enough preliminary work to carry the courses successfully.

HOUR AND EXAMINATION GROUPS

WEDNESDAY and FRIDAY at

HOUR	8 30	9 20	10 10	11 00	11 20	12 10	1 00	1 50	2 40	3 30	MISCELL.
GROUP	I	II	III	CHAPEL	DRILL W ASSEMBLY F	IIII	V	VI			ORCHESTRA 4–5 PM
AGRICULTURE											
Agronomy	$8^f, 4^s$	10^s	$3^f, 4^s$			19W		$8^fW, 16^sW$ $3^fF, 15^sF$	—	—	
An. Husbandry			a^s					$a^s, 6^f$	$a^s 6^f$	6^f	
Bacteriology	$1^fW, 1^sW$							1^f	—	—	
Botany	1	2W, 5F	4				$3^sW, 8F$	2.5, 1F	—	—	
Chemistry		10	8					$1^f, 10, 11, 2^f, 3^f$	—	—	1^s 9–12M
Dairying	3	1^s									
Entomology	3		2					3 W	—	—	
Horticulture	3^s	$4^s, 7^fF$	$2a^sW, 2b^fW$			8^s		$4^sW, 7^fF, 8^sF$	—	—	2a 9–3M
Poultry		3^s						1^sF	—	—	
Veter. Science											
AGRI: ENGINRG										—	
Agric. Surveyg	$1^fW, 1^sW$							$1^f, 1^s$	—	—	
Agric. Technology											
Farm Mechanics	5^s		$3^sW, 4^fW$				$1^f, 2^s$	$3^f, 4^f, 4^s, 5W$	—	—	
Irrig. & Drainage								2^sF			
Roads											
Rural Architectr.								$1^?$			
Rural Sanitation											
COMMERCE											
Accounting		$1, 7^f, 8^s$	——				a	a, b, c, 2	—		
Economics											
Political Science											
Sociology											
Stenography		a	b			1					
Typewriting	a, b, 1	—	—			a, b, 1	—	—			
GENER. SCIENCE											
English	7^1	$b^5, b^6, 23$	$b^3, b^4, a^5, 7^2$			25	$a^1, b^1, b^2, 20$				
Geology		4W	$5^f, 6^s$			1		4	—	—	
History			7								
Library			1.								
Mathematics	7	a^2	b^3			b^1	b^2	a^1			
Mod. Languages	Ger. 1		Fr. 1					5W, 2W, 16F	—	—	
Physics	1a	2	5								
Physiology								$a^2W, 6F$	—	—	
Zoology	a^1	6F	a^2			$7^f, 9^s$					
HOME ECONOMICS											
Applied Arts	2, 3	—	—			12, 14		3, 20	—	—	
Domestic Art		$a^sF, b^sF, c^sF, d^sF, 3W$	—			$1^f, 2^s, 4$	e	c^2, d^{2s}, e	c^2, d^2		
Foods & Dietetics		4 W	3			1^2	—	$4, 2, a^2$	—	—	
Home Sanitn. & Constn.											
MECHANIC ARTS								1.2.3.4.5.6	—	—	
Iron Work	a^f, b^s	—	—					a^f, b^s 1.2.3.4.5.6	—	—	
Machine Work											
Mechanical Draw'g								1.2.3.4.5.6	—	—	
Wood Work	a^f, b^s	—	—								
Drill					1W		2^1W			3.	——
Physical Education for women											

FIGURES AS EXPONENTS — SECTION
f AS EXPONENT — FIRST TERM ONLY
LARGE FIGURES — COLLEGE COURSES
SMALL 'S' AS EXPONENT — SECOND TERM ONLY
CAPITAL LETTERS — DAYS OF WEEK
SMALL LETTERS — HIGH SCHOOL COURSES

ALL SECTIONS EXAMINED WITH SECTION ONE

OF THE SEVERAL COURSES.

TUESDAY THURSDAY and SATURDAYS at

HOUR	830	920	10-10	1100	1120	1210	100	150	240	330	Miscell
GROUP	VII	VIII	IX	CHAPEL	DRILL	X	XI	XII			
AGRICULTURE											
Agronomy	$1^{f}3^{s}$Th 1^{2s}T	a^{f}	5^{f}T					a^{f}T, 3^{f}Th, 4^{s}Th	—	—	
An. Husbandry	3	2				4^{s}	9Th	5^{s}T Th	—	—	
Bacteriology								1^{s}T.Th, 4^{s}	—	—	
Botany								3^{s}T Th, 4T Th	—	3^{s}T Th	
Chemistry	$2^{f}.3^{f}$	1^{1}	1^{2}			7^{s}	5^{s}	1^{2}T Th, 5^{s}T Th, 6	—	—	
Dairying											
Entomology		4	a^{s}					2 T	—	—	
Horticulture	$1^{f}.10^{s}$		9^{f}					$2b^{f}$T	—	—	
Poultry		1^{f}T Th 2^{s}T Th									
Vetery Science			a^{f}								
AGR: ENGINRG											
Agric Surveying						3^{s}		5^{f}T Th, 5^{s}T Th	—	—	
Agric Technology						1^{s}					
Farm Mechanics											
Irrigs Drainage	$1^{f}2^{s}$Th 7^{s}						$3^{f}.4^{s}$				
Roads						$1^{f}.2^{s}$					
Rural Architecture		$3^{f}.4^{s}$	$1^{f}.5^{s}$								
Rural Sanitation						1^{f}					
COMMERCE											
Accounting	e	1^{s}T Th	7^{f}T Th, 8^{s}T Th				a.b	a.b.c.2	—		
Economics	$5^{f}.5^{s}$	2.7^{f}.10^{s}	8.11			12^{f}	$6^{f}.6^{s}$	1			
Political Science								5^{f} 7^{s}			
Sociology						2^{s}	1				
Stenography		a	b			1					
Typewriting	a.b.1	—	—			a.b.1	—	—	—	—	
GENER: SCIENCE											
English	8.22	$b^{1}b^{6}c^{3}e$.17	$b^{1}b^{4}a^{2}c^{2}e$.13			$c^{4}b^{1}$.15	$c^{1}a^{1}b^{1}b^{2}$ 10.12	24			
Geology	2^{2}	2^{1}	3								
History	3^{f}	6	$a^{1f}.b^{1s}$			4	5	$a^{2f}b^{2f}$			
Library											
Mathematics	7	$a^{2}.4^{s}.5^{f}$	b^{2}.8			b^{1}	$b^{2}b^{f}.6^{1s}$	a^{2}.9.b^{f}.b^{2s}	9	9	
Modern Languages	Ger 1 T Th	Fr 2	Fr 1 T Th			Ger 2		Sp 1			
Physics	16^{b}		4			6 T Th 8 T Th		1a T Th, 2S	—	—	
Physiology		$1^{f}.2^{s}$	3^{s}								
Zoology	$3^{f}.4^{s}$	a^{3}T Th					6 Th	[illegible], 9 Th	—	—	
HOME ECONOMICS											
Applied Arts	2.3	1.2.3	2.3.6			[illegible]	1	[illegible] 3.4.20	—	—	
Domestic Art		$a.b^{s}.c^{f}.d^{1s}$	—			3 T Th 1^{s}S, 2^{s}S	[illegible]	5 T Th c^{1}T Th d^{1s}T Th e T Th	5 T Th		
Foods & Dietetics			2 Th			1^{f}T Th	1^{1}T Th	a^{1}T Th, 3 Th	—	—	
Home Sanit & Constn	3	1^{f}	4			2^{s}					
MECHANIC ARTS											
Iron Work	$a^{f}.b^{s}$	—	—					1.2.3.4.5.6	—	—	
Machine Work								$a^{f}b^{s}$123456	—	—	
Mechanical Drawing	[illegible]	—									
Wood Work	$a^{f}.b^{s}$	—	—					123456	—	—	
Drill					1		$2^{T}2^{s}$Th 2^{s}S				
Physical Education (for women)					a.b.	2	1			3	—

FIGURES AS EXPONENTS—SECTION } SMALL 'S' AS EXPONENT—SECOND TERM ONLY
f AS EXPONENT—FIRST TERM ONLY } CAPITAL LETTERS—DAYS OF WEEK
LARGE FIGURES—COLLEGE COURSES } SMALL LETTERS—HIGH SCHOOL COURSES

ALL SECTIONS EXAMINED WITH SECTION ONE

ALL Sections Ex

Departments of Instruction.

ACCOUNTING COURSE.

ASSISTANT PROFESSOR PARLEY PETERSON.

SHORT COURSES.

a. ELEMENTARY BOOKKEEPING. Training in the art of bookkeeping based upon the fundamental principles of modern Accountancy. Entries are made to purchases, sales, and inventory accounts. Subsidiary Trading and Profit and Loss accounts are thoroughly explained. Thorough drill in the preparation of Trading and Profit and Loss statements and statements of Resources and Liabilities, given. Two hours daily throughout the year. Ten credits.

1:50 to 3:30 daily.

b. BOOKKEEPING AND BUSINESS PRACTICE. A continuation of the work done in course a. In the second term, the student employs the principles previously learned in a manner approaching as nearly as possible to actual business. He performs complete transactions with the firms represented in the office-practice department. As much of the work is done by correspondence, special emphasis is given to letter writing. Two hours daily throughout the year. Ten credits.

1:50 to 3:30 daily.

c. BOOKKEEPING AND OFFICE PRACTICE. In the first half of this course the student will be given instruction in the use of the various office appliances—filing systems, mechanical devices, short-cut and time saving methods, etc. In the latter half, the students will be employed successively in offices representing various lines of business, wholesale and retail merchandising, real estate, and insurance, commission, railway station work, and banking, Corporation organization and accounting are emphasized. Two hours daily througout the year. Ten credits.

1:50 to 3:30 daily.

d. FARM BOOKKEEPING. A course intended to supply the needs of students doing work in the short courses in Agriculture. Laboratory and lectures. Winter course work.

e. COMMERCIAL ARITHMETIC. This is a complete course in commercial mathematics. Particular attention is given to business measurements, and to percentage and interest as applied to profit and loss, commission, stocks and bonds, insurance, bank discount, averaging accounts, and partnership adjustments. Short methods are emphasized. Three hours throughout the year. Six credits.

Tu. Th. Sat. 8:30.

f. BUSINESS CORRESPONDENCE AND SPELLING. This course is designed for first year students. Practice in the writing of all kinds of business letters is given and the correct use of all business blanks and forms is emphasized. The latter part of the course is devoted to the acquiring of a business vocabulary. Two hours throughout the year. Four credits.

Tu. Th. Sat. 1:10.

COLLEGE COURSES.

1. PRINCIPLES OF ACCOUNTING. Primarily a course in theory. Enough practical bookkeeping is given to supply the needs of those students who have not had sufficient training before entering the course. Some of the subjects treated are: the theory of Double Entry Bookkeeping, balance sheet, assets and their valuation. Depreciation, liabilities, surplus, reserves, sinking funds, etc. Practical problems will be given. Two lectures and four hours laboratory work throughout the year. Six credits.

Wed. Fri. 9:20 to 10:10, Tu. Th. 9:20 to 10:10.

2. SYSTEMS OF ACCOUNTS. A thorough study of the leading accounting systems of today such as Building and Loan Associations, Life and Fire Insurance Companies, Banks, Trust Companies, Creameries, Department Stores, Electric Lighting, Steam Railway, Electric Railway, Municipalities, and Executors'

and Trustees' Accounts. The first semester will be devoted to a study of these systems with occasional visits to representative local business firms; the second will be largely office practice. Each student will be required to outline and install a system of accounts for at least one of the school offices and to supervise successively, the work of the office-practice students. Four lectures a week the first semester and two hours daily office-practice work the second. Eight credits.

1:50 to 3:30 daily.

3. PRACTICAL ACCOUNTING. This course gives special attention to the working out of various published reports and balance sheets, and the solution of such accounting problems as are likely to arise in actual practice. It is essentially the case method applied to accounting. Three hours throughout the year. Six credits.

4. COST ACCOUNTING. A half course dealing with Cost Accounting, Factory Organization and Systematizing. Two lectures and one three-hour laboratory period, one term. Three credits. Not given in 1913-1914.

5. CORPORATION ACCOUNTING. A half course intended to give practical training in all the phases of corporate organization, and accounts. Two lectures and one laboratory period, one term. Three credits.

Not given in 1913-1914.

6. AUDITING. A full course, open only to those sufficiently qualified, covering the field of auditing and investigations. Besides the theoretical study of this subject students will have the opportunity to audit the accounts of the school offices. Three hours throughout the year. Six credits. (Will alternate with courses 4 and 5.)

Not given in 1913-1914.

7. HOUSEHOLD ACCOUNTS. Intended to meet the needs of

students in the School of Home Economics. Two lectures and two two-hour laboratory periods, first term. Three credits.

Lec. Tu. Th. 10:10, Lab. Wed. Fri 9:20 to 11:00.

8. FARM ACCOUNTS. Intended for students in the school of Agriculture. Two lectures and two two-hour laboratory periods, second term. Three credits.

Lec. Tu. Th. 10:10, Lab. Wed. Fri 9:20 to 11:00.

AGRICULTURAL ENGINEERING.

IRRIGATION AND DRAINAGE.

PROFESSOR HARRIS.
PROFESSOR R. B. WEST.

1. ELEMENTARY IRRIGATION AND DRAINAGE. An elementary course designed especially to meet the requirements of the student who can give but a limited time to the subject. Lectures on field irrigation and methods of farm drainage. Field excursions to irrigation systems and practical drainage operations. Three hours, one term. Three credits.

Tu. Th. Sat. 8:30.

2. IRRIGATION PRACTICE. This course deals with the agricultural rather than with the engineering side of irrigation. It treats of methods of handling the water after it has reached the land, and of the relations between moisture and crops. Those periods in the growth of plants especially influenced by moisture-environment, and the effect of this environment on the yield and composition of crops will be given special attention. Prerequisites, Botany 1 and Agronomy 14. Two lectures and one laboratory period, second term. Three credits.

Lec. Th. Sat. 8:30, Lab. Fri. 1:50 to 4:20.

3. FARM DRAINAGE. This is a technical course, dealing with the laying out and constructing of drainage systems in arid

regions. Special attention will be given to the drainage of alkali lands. Three hours, first term. Three credits. Prerequisites, Irrigation I and Plane Surveying.

Tu. Th. Sat. 1.

4. IRRIGATION SYSTEMS. In this course irrigation systems are studied as units. Such problems as the planning and conducting of irrigation projects, forming companies, getting rights, laying out and constructing canal systems, will be discussed. Trips will be made to inspect some of the important irrigation projects of the State. Prerequisites, Irrigation I, Plane Surveying, Hydraulics, and Rural Architecture 3 and 4. Three hours, second term. Three credits.

Tu. Th. Sat. 1.

5. IRRIGATION MANAGEMENT. This course deals with methods of managing irrigation canals after they have once been put into operation. It discusses methods of keeping the canal in repair, and properly distributing the water to users. It will be especially valuable to water masters. Two hours, first term. Two credits.

6. IRRIGATION INSTITUTIONS AND ECONOMICS. This course treats of the relation of irrigation to various industries and to the country in general. It also discusses the law regulating the use of water. Two hours, second term. Two credits.

7. HYDRAULICS. This is a technical course dealing with the flow of water in natural and artificial open channels, in pipes and flumes; the elementary laws of liquids in motion and at rest; and the elementary principles of water power development. Three hours, second term. Three credits.

Tu. Th. Sat. 8:30.

8. RAINFALL AND RIVER FLOW OF THE WORLD. A general survey of the regions of the world where the rainfall is so light as to require irrigation; the available supply of irrigation water in streams, and the possible methods of increasing that supply by reservoirs, etc. Two hours, one term. Two credits.

Farm Mechanics.

Professor F. L. West.
Mr. Humpherys.

1. Farm Machinery. A general course dealing with the machines used on the farm, their development, design, construction, operation, draft, durability and care. The students will be made familiar with mechanical principles and will have practice in handling common farm machinery. Two lectures and one laboratory period, first term. Three credits.

Lec. Wed. Fri. 1, Lab. Wed. 1:50 to 4:20.

2. Gasoline Engines. A detailed study of the most modern types of gasoline engines. Considerable time and attention will be paid to the design and the working of the different parts and practice in handling the engines under various conditions. Two lectures and one laboratory period, second term. Three credits.

Lec. Wed. Fri. 1, Lab. Wed. 1:50 to 4:20.

3. Tillage and Harvesting Machinery. A detailed study of the various implements used in preparing the land for seed and in cultivating the crop. The complicated parts of harvesting machinery will be examined, and students will have practice in adjusting and operating these machines. One lecture and one laboratory period, second term. Two credits.

Lec. Wed. 1:10, Lab. Fri. 1:50 to 4:20.

4. Machinery of Farm Manufacturing. This is a brief course dealing with the installing and operating of machinery for special purposes, such as darying, canning, etc. One lecture and one laboratory period, first term. Two credits.

Lec. Wed. 1:10, Lab. Fri. 1:50 to 4:20.

5. Tractors. A detailed study of steam and internal combustion tractors and practice in handling them. Two lectures and one laboratory period, second term. Three credits.

Lec. Wed. Fri. 8:30, Lab. Wed. 1:50 to 4:20.

AGRICULTURAL SURVEYING.

ASSISTANT PROFESSOR R. B. WEST.

1. PLANE SURVEYING. This course deals with the general methods of plane and topographic surveying, including the use of the transit level, compass, current meter, etc. and the adjustment of instruments. One recitation, two laboratory periods, one term. Three credits.

Lec. Wed. 8:30, Lab. Wed. Fri. 1:50 to 4:20.

2. FARM SURVEYING. This course is designed primarily for the students of Agriculture. Practice will be given in the handling of surveying instruments, in the running of land lines and ditch lines, in grading and leveling land, making profiles and laying out tile drains. One recitation, two laboratory periods, one term. Three credits. Prerequisite, Surveying 1.

3. CANAL AND ROAD SURVEYING. In this course instruction and practice will be given in the particular application of the surveying methods used in the laying out and contruction of Canals and Roads. Three hours one term. Three credits. Prerequisite Surveying 1.

Tu. Th. Sat. 12:10.

4. SOIL AND OTHER AGRICULTURAL SURVEYS. Instruction in the methods of preparing maps of a given agricultural area, and surveys of the various agricultural interests within the area, under a specialist in the particular line. Three hours one term. Three credits.

5. MAPPING. The aim of this course is to give practice in the mapping of the various kinds of surveys that might be encountered by the Agricultural Engineer. Two laboratory periods per week. Two credits.

Tu. Th. 1:50 to 4:20

ROADS.

PROFESSOR WM. PETERSON.

1. ROAD CONSTRUCTION. The course includes a study of road location, grade, drainage, resistance to traction, road materials, cost of construction and of machinery for preparing road material. Prerequisite: Surveying I. Three hours first term. Three credits.

Tu. Th. Sat. 12:10.

2. ROAD MAINTENANCE. The effect of width of tires and size of wheels, keeping the road in proper form, repairing worn surfaces, maintaining proper drainage, employment of labor, cost of maintenance, comparison of different road machines. Prerequisite, Roads 1. Three hours. Three credits.

Tu. Th. Sat. 12:10.

3. BRIDGE BUILDING. A course dealing with methods of bridge construction, a study of materials used, and the amount of stress on arches of various kinds. The relative cost, strength and durability of different bridges will be discussed. Special attention will be given to small bridges on the farm. Three hours, one term. Three credits.

4. ROAD MATERIALS. In this course a detailed study will be made of the various materials used in the construction and maintenance of roads. Special attention will be given to the materials which are available to Utah farmers. Prerequisite, Geology 2. Three hours, one term. Three credits.

RURAL ARCHITECTURE.

ASSISTANT PROFESSOR R. B. WEST.

1. FARM STRUCTURES. This is a course dealing with the arrangement, design and construction of barns, stables, poultry houses, silos, fences, gates, and other farm outbuildings. Three hours, first term. Three credits.

Tu. Th. Sat. 10:10.

2. FARM HOMES. This course deals with methods of arranging and planning houses suited to the conditions of the farm. Special attention will be given to houses within the reach of the average farmer. Three hours, second term. Three credits.

3. MATERIALS OF CONSTRUCTION. A study of the materials used in construction; their strength and resistance, action under various methods of loading, the stress set up in beams, columns, and girders; and problems in the design of structural parts. Special attention will be given to building materials which are available to Utah farmers. Three hours, one term. Three credits.

Tu. Th. Sat. 9:20.

4. GRAPHIC ANALYSIS OF FRAME STRUCTURES. Diagrams for steady load, snow and wind, the stress on arches with steady and shifting load, the kind of trusses in common use, and the solution of various problems that arise in the design of such trusses. Three hours, one term. Three credits.

Tu. Th. Sat. 9:20.

5. CONCRETE CONSTRUCTION FOR AGRICULTURAL PURPOSES. A study will be made of various mixtures of cement and the uses that can be made of them. The use of concrete in the making of barns, water troughs, posts, etc., will be discussed. Two hours, one term. Two credits.

Tu. Th. Sat. 10:10.

6. DRAFTING. A course in drawing plans for buildings, including detailed drawings of parts, cross sections, etc. This course deals with the technique of drafting rather than with creating plans. Three hours, one term. Three credits.

7. PLANNING OF FARM STRUCTURES AND HOMES. This course treats of the making of plans for farm buildings, including complete specifications, cost of materials, and erection. Time and credit to be arranged with instructor.

RURAL SANITATION.

PROF. E. G. PETERSON.

1. SANITATION. A general course in the principles of sanitation in relation to rural homes and communities. The nature of disease; methods of its spread and means of prevention; the most sanitary methods of arranging and constructing farm buildings; methods of disinfecting. Prerequisite, Bacteriology 1. Three hours, one term. Three credits.

Tu. Th. Sat. 12:10.

2. RURAL WATER SUPPLIES. Methods of supplying farm homes and rural communities with sanitary water. Special attention will be given to Utah conditions. Three hours, one term. Three credits.

3. RURAL WASTE DISPOSAL. This course will discuss the methods of handling the waste of the farm and small town in a manner that will be both convenient and sanitary. Three hours, one term. Three credits.

4. SANITARY ANALYSIS. This course will deal with methods of making chemical and bacterial analysis of water, milk, etc., for sanitary purposes. It is intended primarily as a training for inspection work. Prerequisite, work in chemistry and bacteriology. One lecture and two laboratory periods, one term. Three credits.

5. DISEASE PREVENTION. Arrangements will be made to have lectures on this subject by competent physicians and others. Special attention will be given to rural conditions. The course will be of a popular nature and will be open to all students of the College. Two hours, one term. Two credits.

6. SANITARY STATISTICS. This will be a course in vital statistics, showing the effects of sanitary precautions on the death rate. Comparisons will be made of the death rate of cities and country communities. Methods of getting statistics and determining death rate will also be discussed. Two hours, one term. Two credits.

AGRICULTURAL TECHNOLOGY.

PROFESSOR PORTER.

1. MANUFACTURE OF AGRICULTURAL PRODUCTS. This is a general course dealing with the conversion of the raw materials of the farm into finished products. The course will cover in a general way the processes of manufacturing beet sugar, starch, soap, vinegar, pickles, alcohol, molasses, commercial fertilizers, paper, turpentine, lime, cement, and glass. Special attention will be given to the factories in operation in Utah and to industries that could profitably be developed in this State. Visitis to several factories operating in the State will be required. Prerequisites, Chemistry 1 and 3. Three hours, second term. Three credits.

Tu. Th. Sat. 12:10.

2. MANUFACTURE OF BEET SUGAR. This course will deal with the practical methods of obtaining sugar from the beets. Factory methods will be studied in detail from the standpoint of the student who intends to go into sugar factory work. The chemical work of determining the acidity, alkalinity and purity of the juice in various states, and the estimates of sugar by the polariscope, will be given careful attention. Prerequisites, Agricultural Technology 1 and Chemistry 2. Two lectures and one laboratory period, first term. Three credits.

3. MILLING AND CANNING INDUSTRIES. Two lectures and one laboratory period, second term. Prerequisites, Agricultural Technology 1 and Bacteriology 1. Three credits.

AGRONOMY.

DR. F. S. HARRIS.

a. ELEMENTARY AGRONOMY. A general course dealing with the principles of crop production. Designed for students with

little or no previous training in the sciences who wish in a short period to get practical information regarding crops and soils. Lectures, recitations and written reports. Four hours, first term. Four credits.

Lec. Tu. Th. Sat. 9:20, Lab. Tu. 1:50 to 4:20.

3. CEREAL CROPS. Lectures, recitations and laboratory practice on the history, cultivation, production, and marketing of cereal crops. The course is designed to give an intimate knowledge of the plants and a basis for judging their products. Two lectures and one laboratory period, one term. Three credits.

Lec. Wed. Fri. 10:10, Lab. Th. 1:50 to 4:20.

4. FORAGE, ROOT AND MISCELLANEOUS CROPS. Lectures, recitations, and laboratory practice on alfalfa, clovers, grasses, sugar beets, potatoes, and other crops. In the laboratory the plants and their products will be studied in detail. Field trips will also be taken. Two lectures and one laboratory period, one term. Three credits.

Lec. Wed. Fri. 10:10, Lab. Th. 1:50 to 4:20.

5. SEEDS. Judging of wheat, oats, barley, corn, potatoes, etc., and a study of market grades and adulterations. The quality and preservation of seeds; their storage, shrinkage, vitality, germination, methods and depth of planting and methods of treatment to prevent diseases. Class room, laboratory and field work. Prerequisite, Agronomy 3. Two hours, first term. Two credits.

Alternates with Agronomy 6.

Lec. T. 10:10, Lab. Fri. 1:50 to 4:20.

6. WEEDS. This course includes lectures with class and laboratory exercises on the occurrence, identification, and best methods of eradication of the principal noxious weeds of the State. Each student will be required to classify and mount a number of specimens for the department herbarium. Prerequisite, Botany 1. One recitation and one laboratory period, first term. Two credits. Not given in 1913-14.

8. SOIL MANAGEMENT. A practical course, dealing with the application to actual farming operations of the principles studied in Chemistry 5a. It is designed to meet the needs of farm managers, giving them a knowledge of the most approved methods of handling western soils. It treats such subjects as time and method of plowing and other tillage operations; the rotation of crops; the methods of conserving soil moisture; methods of manuring; the improvement of alkali soils; and such other practical operations and problems as are encountered in the management of soils. Lectures and demonstrations. Prerequisite, Chemistry 1. Three hours, first term. Three credits.

Lec. Wed. Fri. 8:30, Lab. Wed. 1:50 to 4:20.

9. COMPARATIVE SOILS. A study of the soils of the world, compared as to their origin, composition, and agricultural value. The various soil provinces and types of United States and especially those of the arid regions will be investigated and the methods of their classification discussed. The soils of Utah will be taken up in detail; the crops adapted to them, and the treatment they should receive will be given special attention. Prerequisite, Agronomy 8 and Agricultural Surveying 1. Two hours, one term. Two credits.

Alternates with Agronomy 10. Not given during 1913-1914.

10. ADVANCED SOILS. A discussion of the chemical, physical, and biological properties of soils. The course will treat of the methods of soil investigation and theories of fertility; the relation between soils and crops and the ultimate effect of certain soil treatments. Special study will be made of the soil solution and of the movements of moisture in the soil. Prerequisite, Agronomy 8. Lecture and laboratory, second term. Four credits.

Alternates with Agronomy 9.

Wed. Fri. 9:20.

11. ADVANCED LABORATORY IN SOILS. Experiments covering somewhat the same field as covered by the lectures in Agron-

omy 10. Exercises will be given dealing with the soil solutions, the fixation of substances added to the soil, soil moisture relations, alkali, and similar subjects. Agronomy 10 must precede or accompany this course. Two hours or more, second term. Credits to be arranged.

12. MANURES. This course deals with the sources, uses, and effects of artificial fertilizers and amendments; the kinds, compositions, functions, and deterioration of farm manures and the economical methods of their use. Experiments with manures conducted at different stations will be discussed in detail. Prerequisite, Agronomy 8. One hour, second term. One credit.

Tu. 8:30.

14. DRY-FARMING. Instruction is given in the methods best adapted to the growing of profitable crops on arid lands; the treatment of the soil, including the conservation of soil moisture by deep and fall plowing, mulching, etc.; the soils and crops best adapted to arid farming; and the regions offering favorable conditions for its successful practice. The experiments being carried out at the different arid experimental farms of the State are discussed. Three hours, first term. Three credits.

Tu. Th. Sat. 8:30.

15. IRRIGATION PRACTICE. See Irrigation and Drainage 2.

16. FARM MANAGEMENT. This course meets the needs of those who expect to conduct practical farming operations. It treats of the selection and laying out of a farm, the kind of farming which should be carried on in a given locality, the proper balance between the various activities of the farm, the rotation of crops, raising and marketing different kinds of crops and animals, keeping farm records, the profitable employment of labor, and similar questions of profitable farming. Its purpose is to bring together the facts learned in the various technical courses and apply them to a rational system of farming. Prerequisites, Economics and as many courses as possible in Agronomy, Animal

Husbandry, and Horticulture. Three hours, second term. Three credits.

Lec. Wed. Fri. 8:30, Lab. Wed. 1:50 to 4:20.

19. SEMINAR. Each week the advanced students of Agronomy will meet for one hour to review current agronomic literature, discuss agricultural problems, and report on assigned topics. Required of seniors specializing in Agronomy; open also to juniors. One hour throughout the year. Two credits.

Wed. 12:10.

20. RESEARCH. Seniors specializing in Agronomy may elect research work in any branch of the subject. Time and credit to be arranged with instructor.

ANIMAL HUSBANDRY.

PROFESSOR CAINE III.
ASSISTANT PROFESSOR ALDER.
MR. CANNON.

1. MARKET TYPES. The judging of market types of horses, cattle, sheep, and swine. Some score card practice will be given, but most of the work will be comparative judging of groups of animals. Two class and two laboratory periods, one term. Four credits.

Prerequisite for all other courses in Animal Husbandry.

Lec. Wed. Fri. 10:10; Lab. Wed. Fri. 1:50 to 3:30.

2. BREED TYPES. The work covers the origin, history and characteristics of the different breeds of horses, cattle, sheep, and swine, especial stress being laid upon their adaptability to Western conditions. In addition instruction is given in the judging of representatives of different breeds according to their official standard. Three lectures throughout the year. Six credits.

Tu. Th. Sat. 9:20.

3. ANIMAL NUTRITION. A brief study of the anatomy and

physiology of the digestive system; the purpose of nutrition; the theory and practice of feeding, with especial reference to Utah conditions. Three lectures throughout the year. Six credits.

Tu. Th. Sat. 8:30.

4. PRINCIPLES OF BREEDING AND HERD BOOK STUDY. The laws of heredity, correlation, reversion, variation, fecundity; the methods of breeding, cross-breeding, in-and-in breeding, and selection. This work will be followed by a study of the various herd books and of the pedigrees of noted individuals of the important breeds. Prerequisite, first term of Zoology 3. Three lectures, one term. Three credits.

Tu. Th. Sat. 12:10.

5. LIVE STOCK MANAGEMENT. The housing, care and management of different classes of live stock, with especial attention to Western conditions. One lecture and two laboratory periods, one term. Two credits.

Tu. Th. 1:50 to 4:20.

6. ADVANCED STOCK JUDGING. A course in the judging of groups of animals of all classes. Attendance at the State Fair and at all accessible county fairs is required as part of this course. Prerequisites, Animal Husbandry 1 and 2. Two laboratory periods, first term. Two credits.

Wed. Fri. 1:50 to 4:20.

9. SEMINAR. The advanced students of Animal Husbandry and Dairying meet once a week with instructors of the department to review the current literature and special phases of these subjects. Two long reports on assigned subjects will be required. One hour throughout the year. Two credits.

Th. 1.

POULTRY HUSBANDRY.

1. GENERAL POULTRY. A general study of the different breeds, judging and breeding, incubation, brooding, housing, feeding, and marketing, taken up in as much detail as time will permit.

Two recitations and one laboratory period, one term. Three credits.

Lec. Tu. Th. 9:20, Lab. Fri. 1:50 to 4:20.

2. INCUBATION AND BROODING. Practical and experimental work in incubation and brooding. A study of the important factors which influence the hatching quality of eggs, both before and during the incubation period. Prerequisite, Poultry 1. One recitation and two laboratory periods, one term. Two credits.

Tu. Th. 9:20.

3. POULTRY MANAGEMENT. The housing, care, feeding and management of different breeds, with special attention to Western conditions. Prerequisites, Poultry 1 and Chemistry 1. One recitation and laboratory work according to special appointment. Credit according to amount of work done.

Wed. Fri. 9:20.

4. BREEDS AND BREEDING. A study of the origin and development of the more important breeds and varieties of poultry; practice in judging; a review of the literature on breeding for utility and exhibition purposes. Prerequisites, Poultry 1, Zoology 2 and 3.

5. ANATOMY, PHYSIOLOGY AND DISEASES OF POULTRY. The work on diseases will consist principally of the causes, and methods of identification and prevention. Prerequisite, Poultry 1. Two recitations and one laboratory period throughout the year. Three credits.

ART.

ASSISTANT PROFESSOR POWELL.
MR. MOSER.

1. NATURE DRAWING AND DESIGN. Drawing with pencil, charcoal, pen and ink from plants, insects, and animals, to prepare students for scientific work, and develop their artistic sense; the study of the principles of design and their application; lectures on

the Renaissance and modern masters. Five hours throughout the year. Four credits.

Tu. Th. Sat. 9:20 and 1.

2. DESIGN. Practical work in design; the fundamental principles of order, balance, rhythm and harmony. Five hours throughout the year. Four credits.

Any 2 days 8:30 to 11.

3. FREEHAND DRAWING AND DESIGN. Linear perspective and sketching from objects with careful attention to pencil rendering; ornamental drawing from casts and decorative detail; constructive design of furniture and architecture. Five hours throughout the year. Four credits.

Any 2 days 8:30 to 11 or 1:50 to 4:20.

4. HOME ART. A continuation of Art 2, with greater emphasis on applied design in stenciling, blockprinting, designing for art needlework, costume design and decoration. Seven hours, one term. Three credits.

Tu. Th. Sat. 1:50 to 4:20.

5. GENERAL ART STUDY. Pictorial art and composition; still-life and cast drawing with pencil, charcoal, pastel, water color, and oil. Lettering; and history of art. Five hours throughout the year. Four credits.

7, 8, 9. SCIENTIFIC DRAWING. These courses are designed for those wishing practice in microscopic drawing. Five hours a week for each course throughout the year. Four credits.

Tu. Th. Sat. 10:10.

10. HISTORY OF ART. A general course in the history of painting, sculpture and decoration. Two hours throughout the year. Four credits.

11. AESTHETICS. A general course in the fundamentals of beauty as applied to the arts. Two hours throughout the year. Four credits.

12. ADVANCED ART NEEDLEWORK.

Daily 12:10.

13. PROFESSIONAL COSTUME DESIGN.

14. HOME CRAFTS. Instruction in design moulding, glacing and burning of pottery; special attention to instruction in fine leather tooling and embossing. Five hours throughout the year. Four credits.

Daily 12:10.

15. POTTERY AND CHINA DECORATION.

Tu. Th. 1:50 to 4:20.

16. LETTERING.

17. FURNITURE DESIGN. This course consists of design applied to furniture construction and lectures given that pertain to decorative design. Five hours throughout the year. Four credits.

18. METAL. Instruction in design and workmanship in metals. Four hours throughout the year. Four credits.

19. INTERIOR DESIGN. This course consists of wall paper, carpet and furniture design, with special attention to interior color harmonies. Five hours throughout the year. Four credits.

20. STUDIO WORK. This course is a continuation of Art 5, giving advanced sculpture, water color, and oil painting. Five hours a week throughout the year. Four credits.

Daily 1:50 to 4:20.

If not stated above hours and credits for electives are to be arranged with the instructor.

BACTERIOLOGY.

ASSOCIATE PROFESSOR GREAVES.

1. GENERAL BACTERIOLOGY. The preparation of media, sterilization, staining, classification, general biology, cultural char-

acters of typical forms, quantitative and qualitative methods of examination; function, distribution, cultivation, and isolation of important forms. The relationship of bacteria to the various phases of agriculture will receive careful consideration. One term of laboratory work and lectures. Three credits.

Lec. Wed. 8:30, Lab. Wed. Fri. 1:50 to 4:20. Sec. term, Tu. Th. 1:50 to 4:20.

2. HOUSEHOLD BACTERIOLOGY. After a brief survey of bacteriological methods and the biological characters of typical forms, the bacteria will be studied in relation to household economy; bacteria in milk, water and other foods; milk and water contamination; effects of cooling and pasteurization upon milk; yeasts, molds, and fermentation; bacteriology in relation to canning and preservation; thermal death point of important household species; action of disinfectants. Laboratory work and lectures, first term. Four credits.

3. PATHOGENIC BACTERIOLOGY. A course covering the fundamentals of the subject: morphology, classification, biology, distribution, function, cultural and staining characters, methods of cultivation, theories of immunity, the principles of applied bacteriology. A discussion of disease-producing organisms. One lecture and two laboratory periods, one term. Three credits.

Not given in 1913-1914.

4. SOIL BACTERIOLOGY. A course covering the principles of soil bacteriology and fitting the student for original investigation. Exercises involving questions of relation of depth, moisture, character of soil temperature, chemical reaction, and aeration to bacterial life; ammonification, nitrification, denitrification, nitrogen fixation, cellulose fermentation, soil inoculation, including the isolation, cultivation and detailed examination of the organisms causing the changes. Chemical methods of interpreting bacterial fermentations are studied in considerable detail. Prerequisite, Bacteriology 1. Laboratory work, lectures and reports. Six hours, one term. Three credits.

Tu. Th. Sat. 1:50 to 4:20.

5. DAIRY BACTERIOLOGY. A course covering the principles of dairy bacteriology. A consideration of the bacteria of milk, butter, and cheese; infectious diseases in their relation to the dairy; contamination by air, water, and utensils; desirable and undesirable fermentations. Prerequisite, Bacteriology 1. Laboratory work, lectures, and reports, one term. Three credits.

Not given in 1913-1914.

6. RESEARCH WORK. The laboratory and library facilities are especially arranged to meet the needs of advanced students desiring to undertake bacteriological investigation with reference to agriculture, household science, the industries, sanitary science, and veterinary science. Time and credit to be arranged.

BOTANY.

PROFESSOR HILL.
MR. LAURITZEN.
MR. RICHARDS.

a. GENERAL BOTANY. This course gives a general knowledge of plant structure, function, types of plants from lowest to the highest, elementary principles of forestry, plant breeding and ecology. Third or fourth year High School work. Two recitations and one laboratory period throughout the year. Six credits.

Prerequisite for all other courses in Botany.

Lec. Wed. Fri. 8:30, Lab. Fri. 1:50 to 4:20.

2. FLOWERING PLANTS. Principles of the classification of flowering plants with special reference to economic plants. One lecture and five hours of laboratory work, ten weeks in the fall and ten weeks in the spring. Three credits. (Given every other year.)

Lec. Wed. 9:20, Lab. Wed. 1:50 to 4:20.

3. HISTOLOGY. Includes a study of the cell and plant tissues, together with histological technique, sufficient to prepare permanent mounts. One lecture and five laboratory periods, second term. Three credits.

Lec. Wed. 12:10, Lab. Tu. Th. 1:50 to 4:20.

4. PLANT PHYSIOLOGY. A study of the processes and functions of plants. The course is introduced by a general study of plant structure. Two lectures and two laboratory periods throughout the year. Six credits.

Lec. Wed. Fri. 10:10, Lab. Tu. Th. 1:50 to 3:30.

5. PLANT DISEASES. A general study of the history, nature, cause, and control of plant diseases. One lecture and five laboratory periods throughout the year. Six credits.

Lec. Fri. 9:20, Lab. Wed. Fri. 1:50 to 4:20.

6. ECONOMIC BOTANY. A study of food, fiber, medicinal, and spice plants, and their principal products. Three lectures and one laboratory period, second term. (Not given in 1913-14.)

7. ECOLOGY. A study of the plant in relation to its surroundings. Three lectures and laboratory or field work, first term. Five credits. (Not given in 1913-14.)

8. SEMINAR. For advanced students. A discussion of current literature. One hour throughout the year. Two credits.

Fri. 12:10.

9. RESEARCH. Students specializing in botany will be given opportunity in their jnior and senior years to do original investigation. Credit according to time.

CHEMISTRY.

PROFESSOR STEWART.
PROFESSOR GREAVES.
ASSISTANT PROFESSOR PORTER.
MR. HIRST.

1. GENERAL CHEMISTRY. This course deals with the important and fundamental theories of chemistry, and with the applications to the arts and manufactures. The laws of chemical combinations, the writing of reactions, and the solving of chemical problems are given careful consideration. Three recitations and two laboratory periods throughout the year. Ten credits.

Sec. 1, Lec. Tu. Th. Sat. 9:20, Lab. Wed. Fri. 1:50 to 4:20.

2. ORGANIC CHEMISTRY. A brief survey of the more important reactions and compounds of the fatty and aromatic series of hydro-carbons and their derivatives. Special attention is paid to the chemistry of the fats, the carbohydrates, the proteins, the amino acids, and the dyes. Three recitations and two laboratory periods, first term. Five credits.

Sec. 2, Lec. Tu. Th. Sat. 10:10, Tu. Th. 1:50 to 4:20.

3. ORGANIC CHEMISTRY. Lectures and assigned readings on the organic chemical problems of agriculture. After a study of the fundamental principles of organic chemistry, a systematic study is made of carbohydrates, fats, and proteins. This course furnishes agricultural students with the necessary groundwork for future work in physiological botany and physiology. Three recitations and one laboratory period, first term. Four credits.

Lec. Tu. Th. Sat. 8:30, Lab. Wed. Fri. 1:50 to 4:20.

5. SOILS. A study of the methods of the analysis of soils in their relation to crop production; soils of the arid and humid regions; alkali soils, their nature and composition, utilization and reclamation; soil fertility and methods of maintenance; the value,

composition and preservation of barn-yard manure. Prerequisite, Chemistry 1. Five hours, second term. Four credits.

Lec. Tu. Th. Sat. 1, Lab. Tu. Th. 1:50 to 4:20.

6. QUANTITATIVE ANALYSIS. After becoming somewhat familiar with the common methods of quantitative analysis, the student analyzes various products, such as milk, butter, etc. Three laboratory periods throughout the year. Six credits.

Tu. Th. Sat. 1:50 to 4:20.

7. PHYSIOLOGICAL CHEMISTRY. See Physiology 3.

Tu. Th. Sat. 12:10.

8. HISTORY OF CHEMISTRY. Two lectures per week throughout the year. Four credits.

Wed. Fri. 10:10.

9. INDUSTRIAL CHEMISTRY. Lectures and assigned reading on special chemical industries, e. g., the manufacture of sulphuric acids, soda, commercial fertilizers, lime and cement, glass and porcelain, pigments, sugar, starch, alcohol, soap, and explosives. Prerequisite, Chemistry 1. Three hours throughout the year. Six credits.

10. ADVANCED ORGANIC CHEMISTRY. In this course a systematic study is made of the compounds of carbon from the point of view of systematic organic chemistry. This course is designed for students who intend to make chemistry a profession. Two recitations and two laboratory periods throughout the year. Eight credits.

Lec. Wed. Fri. 9:20, Lab. Wed. Fri. 1:50 to 4:20.

11. ADVANCED QUALITATIVE ANALYSIS. This is mainly a laboratory course in qualitative analysis. Three laboratory periods throughout the year. Six credits.

Wed. Fri. 1:50 to 4:20.

12. RESEARCH WORK. The laboratories of the College and Experiment Station are open to students with the necessary preparation who desire to pursue independent studies in chemistry.

The research carried on by the chemistry department of the Experiment Station is of great aid to the students who are engaged in the solution of scientific problems. Time and credit to be arranged with the instructor.

13. PHYSIOLOGICAL CHEMISTRY. See Physiology 4.

14. SPECIAL COURSES IN QUANTITATIVE ANALYSIS. Courses are offered in special phases of quantitative analysis to students who are qualified.

a—Water analysis.
b—Food analysis.
c—Soil analysis.
d—Urine analysis.
e—Gas analysis.

Time and credit to be arranged with the instructor.

15. SEMINAR. Members of the chemical faculty and senior students meet once a week for a discussion of assigned problems in chemistry.

DAIRYING.

PROFESSOR CAINE III.
MR. CANNON.
MR. BINGHAM.

1. ELEMENTS OF DAIRYING. The secretion and composition of milk; testing for fat, acid, and adulterants; dairy sanitation; pasteurization; separation; manufacture of butter and cheese on the farm. Two lectures and one laboratory period, second term. Three credits.

Lec. Wed. Fri. 9:20, Lab. Mon. 9 to 12.

3. DAIRY FARM MANAGEMENT. This course will consist of a brief review of the various breeds of dairy cattle, and methods of selecting the same and starting a dairy herd. Each student

will be required to submit an original plan of a dairy farm, estimating the values of the different sections of property, the expense of operation, and profits to be derived from the business. Prerequisite, Animal Husbandry 2. Two lectures throughout the year. Two credits.

Wed. Fri. 8:30.

4. BUTTERMAKING. A course designed to meet the needs of creamery men. Prerequisite, Dairying 1. One lecture and two laboratory periods throughout the year. Six credits.

5. CHEESEMAKING. A course for cheese factory operators. A study of the manfacture of the different kinds of cheese. Prerequisite, Dairying 1. One lecture, and one laboratory period of six hours throughout the year. Six credits.

7. RESEARCH WORK. A study of various important dairy subjects; a digest of recent dairy work of the experiment stations. Only advanced students are allowed to take this course. One hour throughout the year. Two credits.

DOMESTIC ART.

RHODA B. COOK.
CORAL L. KERR, B. S.
ALICE A. DUNFORD, B. S.

a. PLAIN SEWING I. Students are taught the fundamental principles of hand and machine sewing. Practice is given in the various hand stitches; in machine sewing; in the use and care of different makes of machines; the drafting of simple patterns; and the use of bought patterns. Each student makes an apron and suit of underwear. Eight hours, first term. Three credits.

Tu. Th. Fri. Sat. 9:20 to 11.

b. PLAIN SEWING II. A continuation of course I. The appropriate and economic use of materials is discussed. A study of the beginning of the textile industry from the historical and economic standpoint. A shirt waist and simple dresses are made. Eight hours, second term. Three credits.

Tu. Th. Fri. Sat. 9:20 to 11.

c. DRESSMAKING I. This course includes the making and use of patterns and the choosing and economical cutting of materials. Each student makes a skirt and waist of woolen or silk material, and also a fitted lining. Prerequisites, Domestic Art a and b and Art 2. Eight hours, first term. Three credits.

Sec. 1, Tu. Th. Fri. Sat. 9:20 to 11.
Sec. 2, Tu. Th. 1 to 2:40, Wed. Fri. 1:50 to 3:30.

d. DRESSMAKING II. A continuation of course c. Each student fits and finishes a one-piece gown. Eight hours, second term. Three credits.

Sec. 1 Tu. Th. Fri. Sat. 9:20 to 11.
Sec. 2 Tu. Th. 1 to 2:40, Wed. Fri. 1:50 to 3:30.

e. This course is designed for students especially interested in practical sewing. The fundamental principles of hand and machine sewing; the care and use of different makes of machines; the drafting of patterns; and the use of bought patterns. Each student makes an apron, a suit of underwear, and a wash dress. Eight hours throughout the year. Six credits.

Tu. Th. Wed. Fri. 1 to 2:40.

applied art

1. APPLIED ART I. This course deals with the application of color and design to textiles; the teaching of the fundamental stitches of needlework; the marking of household linen; French embroidery; the designing and making of a soft pillow cover or table runner. Prerequisite, Art 2, 4, or Domestic Science 8. Six hours, first term. Two credits.

Wed. Fri. Sat. 12:10 to 1:50.

2. APPLIED ART II. A continuation of course 1. Six hours, second term. Two credits.

Wed. Fri. Sat. 12:10 to 1:50.

3. ADVANCED DRESSMAKING. This course includes the study of materials; their economic, artistic, and hygienic values; dress as a factor in life; history of costume; modeling in paper and crinoline from copies and original designs; the making of two costumes. Prerequisites, Domestic Art a, b, c, d, Art 4 or Domestic Science 8. Lectures and laboratory work. Eight hours throughout the year. Six credits.

Tu. Th. 12:10, Wed. 9:20 to 11.

4. MILLINERY. This course includes the designing, construction, and trimming of hats; the making and alteration of wire and buckram frames; the covering of frames with silk, velvet, straw or other materials; selection of materials; their suitability and durability. Prerequisite, Art 2. Lecture and laboratory work. Four hours throughout the year. Four credits.

Wed. Fri. 12:10 to 1:50.

5. DESIGNING AND MODELLING. This course includes line and design as adapted to various figures; copying of designs in crinoline or cambric; modelling and working out of original designs in correlation with Art 13. Prerequisites, Domestic Art 11, Art 2, 3, 13. Lectures and laboratory work. Four hours throughout the year. Four credits.

Tu. Th. 1:50 to 3:30.

ECONOMICS.

PROFESSOR THOMAS.
ASSISTANT PROFESSOR HENDRICKS.

1. ELEMENTS OF ECONOMICS. This course explains the laws of man's economic activity. It is the basis of a scientific understanding of industrial conditions. Some of the topics studied are: Economic want, value, rent,wages, profits, interest. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1:50.

2. GENERAL ECONOMICS. This course treats practically the same subjects as Economics 1, but in a more thorough manner. Three hours throughout the year. Six credits.

Tu. Th. Sat. 9:20.

3. HISTORY OF COMMERCE. Its development in Egypt, Greece, Rome, Florence, Medieval Europe; the commercial nations of modern times. Three hours throughout the year. Six credits.

4. ELEMENTS OF SOCIOLOGY. A general course in the foundations and principles of sociology, including a careful study of the social organs, social structure, and social activities. Three hours throughout the year. Six credits.

5a. MONEY. A general survey of the laws and forms of money and credit; the money question; the money market; experience and legislation of recent times. Three hours, first term. Three credits.

Tu. Th. Sat. 8:30.

5b. BANKING. History and theory of banking in the United States and foreign countries; foreign exchanges. Three hours, second term. Three credits.

6a. PUBLIC FINANCE. A course dealing chiefly with the principles underlying public expenditures, revenues, and administration. Three hours first term. Three credits.

Tu. Th. Sat. 1.

6b. TAXATION. A study of the methods of federal and state taxation, including the customs and internal revenue duties; income, business, inheritance, general property and corporation taxes. Three hours, second term. Three credits.

7. CORPORATION FINANCE. A study of corporate incomes, expenditures, debts and administration. A survey of the laws governing the growth of corporations, and the relationship to the State. Three hours, first term. Three credits.

Tu. Th. Sat. 9:20.

8. ECONOMIC HISTORY OF THE UNITED STATES. The principal events of our political life are treated from the standpoint of their economic causation. The history of the tariff, money and banking, agriculture, manfacturing, etc., will be taken up. Three hours throughout the year. Six credits.

Tu. Th. S. 10:10.

9. MARKETING OF PRODUCTS. The methods now practiced in the organization of the selling branch of industrial and merchandising business. The principal subjects in this field are: publicity, agency, advertising, forms and correspondence, credits and discounts. Two hours, throughout the year. Four credits.

10. RAILWAY TRANSPORTATION AND PRACTICE. The development of the railway system, railway finance, railway statistics; the theory of rates, methods of public control in Europe, Australia, and America. Three hours, second term. Three credits.

Tu. Th. Sat. 9:20.

11. INDUSTRIAL AND COMMERCIAL LAW. A study of the elementary principles of law relating to common business transactions, including contracts, sales, promissory notes and bills of exchange, contracts of common carriers, agency, partnership and corporations. Three hours throughout the year. Six credits.

Tu. Th. Sat. 10:10.

12. AGRICULTURAL ECONOMICS. This course deals with the economic principles which underlie farm management, estate management and agrarian legislation. Especially adapted to Western conditions. Three hours, first term. Three credits.

Tu. Th. Sat. 12:10.

15. A RESEARCH COURSE IN ECONOMICS. Time and credit to be arranged with the instructor.

ENGLISH.*

b. COMPOSITION AND CLASSICS. Second year high school English. Study of classics; oral and written composition; special drill in paragraph writing; careful study of Gayley's classic myths. Five hours throughout the year. Ten credits.

Secs. 1 and 2, daily 1.
Secs. 3 and 4, daily 10:10.
Secs. 5 and 6, daily 9:20.

c. COLLEGE ENTRANCE REQUIREMENTS AND COMPOSITION. Third year high school English. Study of Classics; practice in the various forms of discourse; oral and written composition. Emphasis on correct English. Three hours throughout the year. Six credits.

Sec. 1, Tu. Th. Sat. 1.
Sec. 2, Tu. Th. Sat. 10:10.
Sec. 3, Tu. Th. Sat. 9:20.

Note. *Students are not perimtted to take both English b and c in one year. English 22 and 24 are open to all students who have completed, or are taking English c.*

COLLEGE COURSES.

6. HISTORY OF ENGLISH LITERATURE. A survey of the chief movements in the literature of Great Britain from the Anglo-Saxon period to the present day. The greater part of the time is given to the post-Elizabethan literature. Three hours throughout the year. Six credits.

Sec. 1, Tu. Th. Sat. 12:10.
Sec. 2, Tu. Th. Sat. 9:20.

7. COLLEGE RHETORIC. Special attention is given to the

*English a, first year high school English, consisting of the principles of elementary correctness in oral and written composition, may be given for students in the Short Practical Courses.
Sec. 1, daily 1.
Sec. 2, daily 10:10.

forms of prose discourse. The work consists chiefly of themes. Prerequisite, English 6. Two hours throughout the year. Four credits.

Sec. 1, Wed. Fri. 8:30.
Sec. 2, Wed. Fri. 10:10.

8. ADVANCED COMPOSITION. A review course in technical grammar including much class-room drill, and a certain amount of written work. Students conditioned in English, may remove the condition by taking English 8. Two hours throughout the year. Four credits.

Tu. Th. Sat. 8:30.

N. B. *Prerequisite for all the following electives, except 22 and 24, English 8. Prerequisite, in addition, for 10, 11, 13, 15, and 21, one year of French or German.*

10. SHAKSPERE. Elizabethan drama and the chief contemporaries of Shakspere; the development of Shakspere as dramatist; special difficulties in his English; careful study of all his plays and sonnets. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1.

11. THE MODERN DRAMA. A study of the stage of to-day, and of recent and living dramatists. Two hours throughout the year. Four credits.

Not offered in 1913-1914.

12. AMERICAN LITERATURE from the Colonial times to the present, keeping in view contemporary development in English literature. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1.

13. ENGLISH NOVEL. Its origin, development, and most important types. The short-story is also considered. Three hours throughout the year. Six credits.

Tu. Th. Sat. 10:10.

14. MILTON. Two hours throughout the year. Four credits.

Not offered in 1913-1914.

15. GENERAL LITERATURE, or elementary comparative literature. A study of the movements, chief authors and chief works in the literatures of civilized mankind. Three hours throughout the year. Six credits.

Tu. Th. Sat. 12:10.

N. B. *English 17, 18, and 19, are given successively every three years. English 17 is offered in 1913-1914. In each course the history of the period is studied.*

17. THE SEVENTEENTH CENTURY. In English literature, with one emphasis are the Puritan and Restoration periods. Three hours throughout the year. Six credits.

Tu. Th. Sat. 9:20.

18. THE EIGHTEENTH CENTURY. Classicism and romanticism; the novel and the drama. Three hours throughout the year. Six credits.

Not offered in 1913-1914.

19. THE NINETEENTH CENTURY. The culmination of romanticism, the rise of the novel, the Victorian era Three hours throughout the year. Six credits.

Not offered in 1913-1914.

20. ARGUMENTATION AND DEBATING. Practical work in briefing and Debating, and in argumentative writing and speaking. Two hours throughout the year. Four credits.

Wed. Fri. 1.

21. THE ARTHURIAN LEGENDS in English and continental literature. Two hours throughout the year. Four credits.

Not offered in 1913-1914.

22. ELOCUTION. First year work in reading and interpretation. Intended for high school students. Prerequisite, English b. Three hours throughout the year. Six credits.

Tu. Th. Sat. 8:30.

23. ADVANCED ELOCUTION. Chiefly for college students. The principles of oral and literary expression, applied in the main to the interpretative study of masterpieces. Two hours throughout the year. Four credits.

Wed. Fri. 9:20.

24. PUBLIC SPEAKING. Practical training in the formal address, the eulogy, the oration, the debate, the toast, and other forms of public addresses. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1:50.

25. JOURNALISM. A study of magazine and newspaper writing, with special attention to college journalism. Two hours throughout the year. Four credits.

Wed. Fri. 12:10.

ENTOMOLOGY.

DR. TITUS.

a. ECONOMIC ENTOMOLOGY. An elementary course intended to give students a general knowledge of insects and their relation to man and his products as well as the best means of controling injurious insects. Three hours, one term. Three credits.

Tu. Th. Sat. 10:10.

2. SYSTEMATIC ENTOMOLOGY. A course in the structure and classification of insects. Students are required to collect, mount, and identify the more common varieties. The laboratory work consists of dissecting and classifying insects. Two lectures and one laboratory class throughout the year. Six credits.

Lec. Wed. Fri. 10:10, Lab. Tu. 1:50 to 4:20.

3. ECONOMIC ENTOMOLOGY. An advanced course in Economic Entomology, in which full treatment and special attention

are given to insects of the Intermountain region. Students are required to become familiar with methods of control used in other regions, and their results. Two lectures and one laboratory period. Three or six credits.

Lec. Wed. Fri. 8:30, Lab. Wed. 1:50 to 4:20.

4. ENTOMOLOGICAL LITERATURE. Each student is expected to investigate the literature on some particular insect. The general history of entomology is covered in a series of lectures. Prerequisite, Entomology 2 or 3. Three lectures throughout the year. Six credits.

Alternates with Entomology 5.

Tu. Th. Sat. 9:20.

5. ADVANCED ENTOMOLOGY. A course of research work for students intending to teach or to go into government or experiment station work. A thesis on classification and general economic consideration of some special group will be required of each student. Prerequisite, Entomology 2 or 3. Three to six credits.

Alternates with Entomology 4.

FOODS AND DIETETICS.

a. This course considers sanitation applied to food and the simple principles of cooking and serving. It includes a study of milk, canning of fruit, cooking of eggs, meat, vegetables, fruits, and batters; proper care of the kitchen and dining room and their furnishings; and the serving of a meal. Two laboratory periods throughout the year. Four credits.

Sec. 1, Tu. Th. 1:50 to 4:30.
Sec. 2, Wed. Fri. 1:50 to 4:30.

b. Same as (a) but given in a shorter time to accommodate winter course students.

1. PREPARATION OF FOOD. This course considers the principles of cooking; the buying of foods; the preparation and serving of meals within a given sum of money. Prerequisite or parallel,

Chemistry 1 and Botany 1. Two laboratory periods throughout the year. Four credits.

Sec. 1, Tu. Th. 12:10 to 1:50.
Sec .2, Wed. Fri. 12:10 to 1:50.

2. EXPERIMENTAL AND DEMONSTRATIVE COOKERY. This course includes lectures and laboratory work in the chemical composition of foods; the action of heat, cold and alkali on foods; a study of recipes; cost of materials; each student plans and gives one demonstration. Prerequisite, Domestic Science 1, Physics 1, Chemistry 2. One lecture and two laboratory periods throughout the year. Six credits.

Lec. Th. 10:10, Lab. Wed. Fri. 1:50 to 4:20.

3. DIETETICS AND NUTRITION. This course deals with the principles of human nutrition and the application of these principles to the diets of individuals and families under varying conditions of living. It includes a discussion of metabolism of food stuffs; dietaries and their construction; the relation of diet to health; and the economy of foods. Prerequisite, Chemistry 7. Two lectures and one laboratory period throughout the year. Six credits.

Lec. Wed. Fri. 10:10, Lab. Th. 1:50 to 4:20.

4. HOUSEHOLD CHEMISTRY. The analysis of air, water, foods and fuels. The course includes complete analysis of air, water, milk, cheese, butter and flour; the detection of adulterants and preservatives; the analysis of fats; theory of saponification; the processes involved in the manufacture of soap; analysis of leavening agents; and the chemistry of textiles. One lecture and six hours of laboratory work per week throughout the year. Six credits.

Lec. Wed. 9:20, Lab. Wed. Fri. 1:50 to 4:20.

GEOLOGY AND MINERALOGY.

PROFESSOR WILLIAM PETERSON.

1. PHYSIOGRAPHY. Topics to be studied will include: the Earth as a body in space; surface structure; erosion, aggradation,

etc.; the atmosphere and the influences of physiographic conditions on the development of an agricultural region. A brief study will be made of the common rocks of Cache Valley. Two hours throughout the year. Four credits.

Wed. Fri. 12:10.

2. GENERAL GEOLOGY. A comprehensive survey of the field covered by dynamic, structional, and historical geology. Particular attention is paid to the changes the earth's surface is now undergoing and the forces which produce them, as a means of interpreting the past. The course includes laboratory study of the common rocks and rock-forming minerals, with special stress on the soil product resulting from rock disintegration. A part of the second term's work is given to a careful study of the geological development of the North American continent. Field trips to points during fall and spring and written reports made on the same. Prerequisites, Chemistry 1, Zoology 2. Three hours throughout the year. Six credits.

Sec. 1, Tu. Th. Sat. 9:20.
Sec. 2, Tu. Th. Sat. 8:30.

3. ECONOMIC GEOLOGY. The first term will be given to the study of the non-metals with special emphasis on mineral fertilizers. The second term will be devoted to the study of metals; their origin and economic uses. The work of either term may be taken without the other. Prerequisite, Geology 2. Three hours throughout the year. Six credits.

Tu. Th. Sat. 10:10.

4. MINERALOGY. A descriptive and determinative study of the more important minerals. The student is furnished with excellent specimens, for both tests and comparisons, of all minerals studied. The course includes a discussion of crystallography and the physical properties of minerals. The work of the course is largely individual laboratory work in blow-pipe analysis and determinative mineralogy. Prerequisite, Chemistry 1. One recitation and two laboratory periods, one term. Three credits.

Lec. Wed. 9:20, Lab. Wed. Fri. 1:50 to 4:20.

5. GEOLOGY OF GROUND WATER. A study of structure to determine the cause of springs, artesian wells, etc., with the object of learning what structural characteristics will yield water either through tunneling or boring. Prerequisites, Geology 2, Physics 1. Two hours, one term. Two credits.

Wed. Fri. 10:10.

6. ADVANCED PHYSIOGRAPHY. Intended for students of college grade who wish to obtain a more complete knowledge of physiographic features and processes than can be given in Geology 1. A careful study of the physiographic development of the United States is taken up. Lectures will be supplemented by field and laboratory work, and by considerable outside reading. Prerequisites, Geology 1 and 2. Two hours, second term. Four credits.

Wed. Fri. 10:10.

7. PETROLOGY. A systematic study of rocks and the rock-forming minerals. Particular attention is given to the origin and formation of the different kinds of igneous rocks and methods for the determination of the minerals which compose them. Prerequisites, Geology 2 and 4, Chemistry 1. Lectures, reading and laboratory work. Time and credit to be arranged.

8. FIELD GEOLOGY. The methods employed in field work and the mapping of a region from geological field notes are carefully studied. During the year the students will work out the geology of an assigned area. Lectures supplemented by reading. Prerequisite, Geology 2. Two recitations, one afternoon field work or laboratory period throughout the year. Credit according to work. Can also be taken in summer school but classes for less than ten students will not be organized for summer work.

HISTORY.

ASSISTANT PROFESSOR DAINES.
MR. ROBINSON.

a. ENGLISH HISTORY. A High School course that aims to give the students a knowledge of a few periods and movements rather than to range over the whole of the history of Great Britain. Three hours, one term. Three credits.

Sec. 1 Tu. Th. Sat. 10:10.
Sec. 2, Tu. Th. Sat. 1:10.

b. AMERICAN CIVICS. A High School course that gives the students a knowledge of the fundamentals of our national, state, and local governments. Three hours, one term. Three credits.

Sec. 1, Tu. Th. Sat. 1:10.
Sec. 2 Tu. Th. Sat. 1:50.

3. ENGLISH HISTORY. A College course covering the history of England to the present time, with but a brief survey of the period before 1485. Special stress is laid on the constitutional and the social development of modern England. Three hours throughout the year. Six credits.

Tu. Th. Sat. 8:30.

4. MODERN EUROPEAN HISTORY. A College course covering the history of Europe from the beginning of the eighteenth century. In this course current events will receive attention. Three hours throughout the year. Six credits.

Tu. Th. Sat. 12:10.

5. HISTORY OF THE AMERICAN WEST. A College course dealing with the expansion of the American people westward. Special attention is paid to the economic factors at the bottom of this movement, and the effects of this movement on the country, politically and socially. Utah and the surrounding states are given special consideration. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1.

6. ANCIENT AND MEDIEVAL HISTORY. A College course from ancient times to the seventeenth century, with special emphasis on Greek and Roman History. Three hours throughout the year. Six credits.

Tu. Th. Sat. 9:20.

7. HISTORY OF CIVILIZATION. This course does not aim to cover in any detail the political history of the world; its purpose is rather to give a broad view of those factors in ancient, medieval, and modern civilization that have been of greatest permanent value in our own day. Two hours throughout the year. Four credits.

Wed. Fri. 10:10.

HOME ECONOMICS.

The School of Home Economics has been divided into three departments, viz: Domestic Arts, Foods and Dietetics, and Home Construction and Sanitation. For a description of the various courses in Home Economics, see these three departments respectively.

HOME CONSTRUCTION AND SANITATION.

1. HOUSE CONSTRUCTION AND SANITATION. This course considers location, construction, heating, lighting and ventilating of the house from the standpoint of sanitation. It includes a study of house plans; house furnishing; and sanitation in its relation to disease prevention. Prerequisite, Bacteriology 1 and Domestic Science 4. Two lectures and one laboratory period, first term. Three credits.

Tu. Th. Sat. 9:20.

2. HOME CARE OF THE SICK. A course intended to fit the student for conditions in the home life in which professional nursing is not required. It includes emergencies and first aids to the

injured and simple procedure in home care of the sick. Prerequisite, Physiology 1. Three hours, second term. Three credits.

Tu. Th. Sat. 12:10.

3. HOUSEHOLD ART. This course deals with principles of design and color applied to interior decoration and furnishing; floor coverings, and wall hangings; furniture designs; and the use of pictures. Prerequisite, Art 2 and 4, and Domestic Science 2. Two lectures and one laboratory period, second term. Three credits.

Tu. Th. Sat. 8:30.

4. HOUSEHOLD ADMINISTRATION. This course deals briefly with the relation of the home to society; standards of living, cost of living; income and expenditures, savings; service and management. The course includes also a review of the Home Economics movement in its influence on the home and its place in educational institutions. Prerequisite, Domestic Science 3, Economics 2, or Sociology 1. Three hours throughout the year. Six credits.

Tu. Th. Sat. 10:10.

HORTICULTURE.

PROFESSOR BATCHELOR.
MR. KNUDSON.

1. POMOLOGY. Gives the student a scientific as well as a practical knowledge of commercial fruit growing: selection of orchard site, planting, cultivation, irrigation, harvesting and marketing the crop. Three lectures, first term. Three credits.

Tu. Th. Sat. 8:30.

2b. PRACTICAL POMOLOGY. Deals with the theory and the practice of the most elementary phases of horticulture, such as propagation, picking and packing fruit, and elementary work in greenhouse management. Prerequisite, Horticulture 1. One lecture and one laboratory period, first term. Two credits.

Lec. Wed. 10:10, Lab. Tu. 1:50 to 4:20.

2a. PRUNING AND PROPAGATION. This is a continuation of Horticulture 2, dealing with the theory and practice of pruning and propagation. Prerequisite, Horticulture 1. One lecture and two laboratory periods, second term. Three credits.

Lec. Wed. 10:10, Lab. Mon. 9 to 3.

3. BUSH FRUITS. A study of the propagation, culture, harvesting, and marketing of small fruits, such as strawberries, currants, raspberries, grapes. Prerequisite, Horticulture 2. Two lectures, second term. Two credits.

Wed. Fri. 8:30.

4. VEGETABLE GARDENING. A study of the cultivation and economic importance of the various vegetable crops; soils, fertilizers, planting, transplanting, and storage of such crops for home and commercial uses. Two lectures and one laboratory period, second term. Three credits.

Lec. Wed. Fri. 9:20, Lab. Wed. 1:50 to 4:20.

7. SYSTEMATIC POMOLOGY. A systematic and detailed study of the various fruits, giving the student a working knowledge of varieties and an ability to judge fruit exhibits. Prerequisite, Horticulture 1. One lecture and one laboratory period, first term. Two credits.

Lec. Fri. 9:20, Lab. Wed. 1:50 to 4:20.

8. LANDSCAPE GARDENING. A study of ornamental plants; methods of grouping and planting; laying out public and private grounds. Prerequisite, Horticulture 2. Two lectures, one laboratory period, second term. Three credits.

Lec. Wed. Fri. 12:10, Lab. Fri. 1:50 to 4:20.

9. HORTICULTURAL LITERATURE. A criticial study and examination of books, bulletins, reports, magazine articles, etc., dealing with special horticultural subjects. Prerequisite, Horticulture 1. Three recitation periods throughout the year. Six credits.

Tu. Th. Sat. 10:10.

10. HISTORY OF HORTICULTURE AND AGRICULTURE. Beginning with mythical Egypt, 2700 B. C., the history and development of these industries are traced through Greece, Rome, and England; finally a general survey is made of the past and present conditions in the United States. Three lecture periods, second term. Three credits.

Tu. Th. Sat. 8:30.

LIBRARY REFERENCE AND BIBLIOGRAPHY.

MISS SMITH.

The course consists in the main of instruction in the use of scientific and agricultural literature and general reference books, such as encyclopedias, dictionaries, atlases, cyclopedias of special subjects, indexes to periodicals and general literature, hand-books of information, and United States public documents with their special catalogues and indexes. Talks are given on the classification and cataloguing of books, their arrangement on the shelves, the use of the card catalogue, book-buying, and bibliography. "List of reference books in the Utah Agricultural College library" is used as a text book. Two hours, one term. Two credits.

Wed. Fri. 10:10.

MATHEMATICS.

PROFESSOR SAXER.
MR. HUMPHERYS.

a. ALGEBRA.* A first year course in High School algebra. Five hours throughout the year. Ten credits.

Sec. 1, daily 1:50.
Sec. 2, daily 9:20.

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*For students who have not taken algebra in their High School work, but have the necessary entrance credits.

b. PLANE GEOMETRY. Five hours, one term. Five credits.

Sec. 1, daily 12:10.
Sec. 2, daily 1:00.
Sec. 3, daily 10:10.

4. SOLID GEOMETRY. Three hours, one term. Three credits.

5. COLLEGE ALGEBRA. Three hours, first term. Three credits.

Tu. Th. Sat. 9:20.

6. PLANE TRIGONOMETRY. Three hours, one term. Three credits.

Sec. 1, Tu. Th. Sat. 1.
Sec. 2, Tu. Th. Sat. 1:50.

7. ANALYTIC GEOMETRY, CALCULUS. A one-year course including the elements of (a) plane analytic geometry, (b) differential calculus, and (c) integral calculus. Prerequisites, Mathematics 5 and 6. Five hours throughout the year. Ten credits.

Daily 8:30.

8. DIFFERENTIAL EQUATIONS. An elementary course in ordinary differential equations. Special attention will be given to the solution of practical problems. Prerequisite, Mathematics 7. Two hours throughout the year. Four credits.

Tu. Th. Sat. 10:10.

9. DESCRIPTIVE GEOMETRY. See Mechanical Drawing 9.

Tu. Th. Sat. 1:50 to 4:20.

10. GENERAL ASTRONOMY. A non-mathematical course of college grade dealing with those fundamental facts of astronomy with which every educated person should be familiar. Two hours throughout the year. Four credits.

MECHANIC ARTS.

MECHANICAL DRAWING.

MR. PULLEY.

1. ELEMENTARY MECHANICAL DRAWING. Course consists of drawing plane geometrical figures, intended to develop accuracy

and correct methods in the use of drawing instruments, and in the making of the common geometrical constructions used in mechanical drawing. One recitation and one laboratory period, one term. Two credits.

Tu. Th. Sat. 8:30 to 10:10.

2. LETTERING AND APPLIED GEOMETRY. Practice is given in letter construction, in the spacing of letters, words and sentences, construction of titles, monograms, trade marks, border lines, north points, etc.; and in the construction of scales, the conic sections and in drawing geometrical solids. Prerequisites, Course 1, or a working knowledge of plane geometry. One recitation and one laboratory period, one term. Two credits.

Tu. Th. Sat. 8:30 to 10:10.

3. ORTHOGRAPHIC PROJECTION. This course affords practice in the representation of objects on paper in strict accord with practice and the principles underlying orthographic projection. It embraces the regular coordinate projections, auxiliary projections, sectional views and graphical solutions. Prerequisite, Course 2. One recitation and one laboratory period, one term. Two credits.

Tu. Th. Sat. 8:30 to 10:10.

4. ORTHOGRAPHIC PROJECTION (continued). The application of its principles in determining true size and shape of sections, the lines of intersection of planes with solids and solids with solids with reference to its use in the mechanics work. Prerequisite, Course 3. One recitation and one laboratory period, one term. Two credits.

Tu. Th. Sat. 8:30 to 10:10.

5. ONE PLANE PROJECTION. In this course students will have practice in making pictorial representations of solids in isometric and cabinet projections. Prerequisite, Course 3. One laboratory period, one term. One credit.

Tu. Th. Sat. 8:30 to 10:10.

6. WORKING DRAWINGS. The principles obtained in the foregoing courses will be applied in the making of drawings with

the addition of the dimensions, notes, title, etc., needed by the constructor. The common conventions, blue printing and commercial practice will also receive attention. Course can be varied somewhat to suit the requirements of the class. Prerequisite, Course 4. One recitation and one laboratory period, one term. Two credits.

Tu. Th. Sat. 8:30 to 10:10.

7. ARCHITECTURAL DRAWING AND PERSPECTIVE. Prerequisite, Course 4. One recitation and one laboratory period, one term. Two credits.

8. MACHINE DRAWING. Sketching and drawing of machinery. Prerequisite, Course 4. One recitation and one laboratory period, one term. Two credits.

9. ELEMENRARY DESCRIPTIVE GEOMETRY. Problems relating to the point line and plane will be taken up. Prerequisite, Course 2, or a working knowledge of geometry and instruments. One recitation and one laboratory period, one term. Two credits.

10. DESCRIPTIVE GEOMETRY (continued). Deals with sections, developments and intersections of plane and curved surfaces. Prerequisite, Course 9. One recitation and one laboratory period, one term. Two credits.

N. B. The necessary materials and instruments for Mechanical Drawing 9 and 10 can be purchased at the College Bookstore for from fifteen to twenty-five dollars.

WOOD WORK.

MR. HANSEN.

a. FUNDAMENTAL PRINCIPLES. A complete course illustrated by the construction of elementary exercises. Includes work

in Shop Mathematics and Technology. Three periods daily, one term. Five credits.

8:30 to 11.

b. APPLICATION OF FUNDAMENTALS. Application of the foregoing practice, in panels, sash, doors, and simple cabinet work. Also a thorough knowledge of sharpening tools. Prerequisite, Course a. Three periods daily, one term. Five credits.

8:30 to 11.

1. THE WORK BENCH. Constructing a standard work bench. Prerequisite, Course b. Three periods daily, one term. Five credits.

1:50 to 4:20.

2. TURNING. Wood turning, and making a tool cabinet. Prerequisite, Course 1. Three periods daily, one term. Five credits.

1:50 to 4:20.

3. HARD PINE. Cabinet work in fir. Prerequisite, Course 2. Three periods daily, one term. Five credits.

1:50 to 4:20.

4. HOUSE BUILDING OR HARDWOOD WORK. Work in hardwood staining and wax finishing; or elementary house building. Prerequisite, Course 3. Three periods daily, one term. Five credits.

1:50 to 4:20.

5. VENEERING. Veneered cabinet work. The articles are designed by the students. Prerequisite, Course 4. Three periods daily, one term. Five credits.

1:50 to 4:20.

6. HOUSE FINISHING OR FANCY WOODWORK. Inside finishing of a house or inlaying and hand polishing. Prerequisite, Course 5. Three periods daily, one term. Five credits.

1:50 to 4:20.

7. PATTERN MAKING. Elementary exercises. Prerequisite,

Course 2. Three laboratory periods a week, one term. Three credits.

8. CARVING. Elementary wood carving. Prerequisite, Course b. Two laboratory periods a week, one term. Two credits.

FORGING AND GENERAL BLACKSMITHING.

MR. NEWEY.

a. Exercises arranged to teach the underlying principles of forging including welding. Two hours each week will be given to the consideration of Shop Mathematics and Technology. Three periods daily, one term. Five credits.

8:30 to 11.

b. Exercises arranged to give practice in the use of anvil tools, making of tools, hardening and tempering, filing, drilling, brazing. Two hours each week will be given to the consideration of Shop Mathematics and Technology. Prerequisite, Course a. Three periods daily, one term. Five credits.

8:30 to 11.

c. Exercises from Course a. This is a short course arranged for students who cannot spend each day in the shop. Six hours a week, one term. Two credits.

1. Exercises arranged to give further practice in the principes taught in Courses a and b; or horseshoeing. Prerequisites, Courses a and b. Three periods daily, one term. Five credits.

1:50 to 4:20.

2. Woodwork preparatory to carriage work, or horseshoeing. Three periods daily, one term. Five credits.

1:50 to 4:20.

3. General repair work including axle and tire setting, re-

setting of springs and plow work; or horseshoeing. Prerequisites, Courses a, b, 1, 2. Three periods daily, one term. Five credits.

1:50 to 4:20.

4. Same work as Course 3. Three periods daily, one term. Five credits.

1:50 to 4:20.

5. The building of an approved vehicle or farm implement; or horseshoeing. Three periods daily, one term. Five credits.

1:50 to 4:20.

6. Same work as Course 5. Three periods daily, one term. Five credits.

1:50 to 4:20.

MACHINE WORK.

MR. PULLEY.

All courses come daily 1:50 to 4:20.

a. BENCH WORK. The technical and practical phases of the subject are treated in this course. Information pertaining to materials, tools and methods is offered. The practical work consists of exercises involving the use of the hammer, chisels, files, polishing materials and wheels, drills and speed lathe. Includes work in Shop Mathematics and Technology. One recitation and four laboratory preiods, one term. Five credits.

b. BENCH, PLANER AND SHAPER WORK. Consisting of preliminary exercises in scraping, babbitting, soldering, tapping, sheet metal work, planing and shaping, hand turning, and drilling. Calculations will be made of the mechanism of the machines. Prerequisite, Course a. One recitation and four laboratory periods, one term. Five credits.

1. PLANING AND TURNING. Advanced planer and shaper work and preliminary exercises in straight and taper turning on

the engine lathe. The student will be expected to make computations of feeds, speeds and time required in turning out work. Prerequisite, Course b. One recitation and four laboratory periods, one term. Five credits.

2. ADVANCED LATHE WORK. Chucking and boring in the lathe, polishing and thread cutting. Discussions on the change gears and systems used in thread cutting and other technical features, will be given and calculations made. Prerequisite, Course 1. One recitation and four laboratory periods, one term. Five credits.

3. TURNING AND MILLING. Lathe work continued and milling machine work, involving simple and gang milling, and the use of the indexing head. Prerequisite, Course 2. One recitation and four laboratory periods, one term. Five credits.

4. TOOL MAKING. The making of small tools, such as tap and reamer wrenches, taps and dies, reamers, mandrels, milling cutters, with practice on the grinding machine, will constitute the practical work of this course. The desirable technical information connected herewith will be considered in class. Prerequisite, Course 3. A knowledge of hardening and tempering steel is desirable. One recitation and four laboratory periods, one term. Five credits.

5. TOOL MAKING (continued). In this course attention will be paid to the making and using of jigs and fixtures in relation to manufacturing machinery and to punch and die making. Prerequisite, Course 3. One recitation and four laboratory periods, one term. Five credits.

6. MACHINE CONSTRUCTION. In this course, the making of machinery is taken up. Some machines used in the shop have been put into working condition, after damage by fire, and others

built outright by students. Prerequisite, Course 3. Recitations as needed, and laboratory periods, one term. Five credits.

7. ELEMENTARY MACHINE DESIGN. Fastenings, rivets, screws and bolts, pipe fittings, keys and cutters. Prerequisite, should know strength of common materials and have knowledge of mechanical drawing. One recitation and one laboratory period, one term. Two credits.

8. MACHINE DESIGN (continued). *Not offered in 1913-1914.*

9. FOUNDRY WORK. *Not offered in 1913-1914.*

MILITARY SCIENCE AND TACTICS.

FIRST LIEUTENANT R. J. BINFORD, U. S. ARMY.

Military instruction at the College is not a matter of choice with the authorities or the students. The Congress of the United States requires this instruction in return for large appropriations. The object of the instruction is to qualify students for commissions in the National Guard or volunteer army. All able-bodied male students of the College are enrolled in the Military Department, during three years of their course. The satisfactory completion of both the practical and the theoretical work prescribed for any one year entitles the student to two credits.

Military drill improves the habits and manners of the student, develops him physically, and gives him that military knowledge which every citizen should possess that he may render intelligent aid to his country or state in time of need. It cultivates a manly spirit, ready and implicit obedience, respect for authority and restraint—all qualities of inestimable value to a young man in whatever calling he may choose.

The military body of this College consists of one battalion of three companies and a band of 28 instruments. The organization, drill and administration are the same as in the Regular Army The appointment and promotion of officers and non-commissioned officers in the Battalion is made by the Commandant of Cadets upon approval by the President of the College, after a careful consideration of the following points: knowledge of drill and other duties as determined by examination and practical application of this knowledge on the drill field; zeal, soldierly bearing and aptitude for command; character, military record; general standing in the college.

Paragraph 20, General Orders No. 155, War Department, July 24, 1907, directs that, "Upon occasions of Military ceremony in the execution of drills, guard duty, and where students are receiving any other practical military instruction, they shall appear in the uniform prescribed by the institution." The College has adopted a very neat and serviceable uniform which may be purchased through the College Secretary at actual cost, about sixteen dollars. Students, when they register, must be prepared to deposit five dollars towards the purchase of their uniform.

There will be five fifty minute periods of instruction each week throughout the year. This is required of all cadets excepting Band members during three years of their attendance. The military instruction of the Band will average one period per week.

PRACTICAL INSTRUCTION.

(An average of four periods per week.)

The instruction consists of Infantry Drill—school of the soldier, squad, company and battalion in close and extended order; ceremonies of guard mounting, parade, review and escort of the Color Field. Service Regulations—marches, outposts, advance guard, rear guard and combat exercises. Small arms, Firing Manual.—Position sighting and aiming drills; indoor and outdoor target practice.

Tu. Wed. Th. Sat. 11:20.

THEORETICAL INSTRUCTION.

(An average of one period per week.)

Recitations in Infantry Drill Regulations, Small Arms Firing Regulations, Field Service Regulations, Guard Duty and Administration; lectures on military subjects.

Sec. 1 Wed. 1.
Sec. 2 Tu. 1.
Sec. 3 Th. 1.
Sec. 4 Sat. 1.

BATTALION ROSTER, 1912-1913.

FIELD AND STAFF OFFICERS.

HAROLD R. HAGAN, *Major.*
W. F. BARBER, *1st Lieut. and Adjutant.*
W. M. MATHISON, *2nd. Lieut. and Quartermaster.*

NON-COMMISSIONED STAFF OFFICERS.

MARK S. JOHNSON, *Sergeant Major.*
I. L. MCALISTER, *Color Sergeant.*
S. L. BARBER, *Quartermaster Sergeant.*
FRANK HICKENLOOPER, *Trumpeter Sergeant.*

BAND.

A. L. Christiansen, *Chief Musician.*
Bernice Howells, *Principal Musician.*
(Vacancy,) *Drum Major, (J. Odell, Acting.)*
G. W. Hess, *Sergeant.*
C. P. McGregor, *Sergeant.*
Edwin Smith, *Sergeant.*
J. E. Haslam, *Sergeant.*
E. Johnson, *Corporal.*
A. Nelson, *Corporal.*

Joseph Oyler, *Corporal.*
Grover Burnett, *Corporal.*
Leo Hansen, *Corporal.*
Wm. Doutre. *Corporal.*

COMPANY A.

Captain, W. S. McAlister.
1st Lieut. Clayton Preston.
2nd. Lieut. Anthon Peterson.
1st. Sergeant, J. M. Sampson.
Sergeant, Byron Birch.
Sergeant, Albert Dallof.
Sergeant, Charles Osmond.
Corporal, LeRoy Carroll.
Corporal, S. K. Daniels.
Corporal, Gustaf Heldberg.
Corporal, W. W. Thomas.
Corporal, (Vacancy.).

COMPANY B.

Captain, Lynn Andrus.
1st. Lieut. Arnold Frew.
2nd. Lieut. Grandison Gardner.
1st. Sergeant, H. A. Belnap.
Sergeant, W. A. Hendricks.
Sergeant, L. G. Nuttall.
Sergeant, S. W. Riter.
Corporal, Le Roy Monson.
Corporal, Andrew Mohr.
Corporal, Le Roy Tanner.
Corporal, Victor Hendricks.
Corporal, Hugh Hurst.

COMPANY C.

Captain, (Vacancy.)
1st. Lieut. Stephen C. Perry.
2nd. Lieut. J. Z. Richardson.
1st. Sergeant, Floyd Hammond.
Sergeant, Edlef Edlefson.
Sergeant, J. E. Hatch.
Sergeant, (Vacancy.)
Corporal, Silver Lowe.
Corporal, Noah Woodland.
Corporal, C. E. Cotter.
Corporal, H. R. Pond.
Corporal, Reuben Hansen.

MODERN LANGUAGES AND LATIN.

PROFESSOR ARNOLD.

FRENCH.

1. FIRST YEAR FRENCH. Fraser & Squair's French Grammar and Guerber's Contes et Legends form the basis of the grammatical and conversational work. Four hours throughout the year. Eight credits.

Tu. Wed. Th. Fri. 10:10.

2. SECOND YEAR FRENCH. Francois French Composition is the basis of a grammatical review of writing in French. Lavisse's Histoire de France is used as subject matter for conversation, and the work in reading consists in translating works of the more important nineteenth century authors. Prerequisite, French 1. Three hours throughout the year. Six credits.

Tu. Th. Sat. 9:20.

3. THIRD YEAR FRENCH. Four elective one-hour courses. a—Conversation b—Rapid reading of French periodicals on horticulture, stockbreeding or domestic science subjects. c—Rapid reading of French classics, varying each year. d—French periodicals on French home life. Course 3b may be given in two divisions to suit those who elect it. Students may elect any part or all of French 3. Each division counts two credits.

(Hours to be arranged with instructor.)

GERMAN.

1. FIRST YEAR GERMAN. Grammar, conversation and reading of easy texts. Four hours throughout the year. Eight credits.

Tu. Wed. Th. Fri. 8:30.

2. SECOND YEAR GERMAN. Bernhardt's German Composition is finished and work in original German composition is begun. Many texts are rapidly read, selected from nineteenth century authors, together with one scientific text. Three hours throughout the year. Six credits.

Tu. Th. Sat. 12:10.

3. THIRD YEAR GERMAN. Three elective one hour courses. a—Conversation, including the learning of a part ine a one-act play. b—Scientific German, with private reading in different subjects according to the course of each student. c—A study of Goethe's Faust. Students may elect any part or all of German 3. Each division counts two credits.

(Hours to be arranged with instructor.)

DANO-NORWEGIAN.

1. Simple grammatical exercises and conversation, the object being to gain a reading knowledge of the language. Four hours throughout the year. Eight credits.

Not offered in 1913-1914.

SPANISH.

1. FIRST YEAR SPANISH. Giese, First Year in Spanish, Matazke, First Spanish Readings; Valdes, Jose; Alarcon, El Capitan Veneno. Three hours throughout the year. Six credits.
Tu. Th. Sat. 1:50.

2. SECOND YEAR SPANISH. Ford, Spanish Composition; Picatoste, Historia de Espana as basis for conversation; rapid reading of modern texts. Three hours throughout the year. Six credits.

LATIN.

1. FIRST YEAR LATIN. Collar and Daniel, First Year Latin; Viri Romae; Drill on essentials of Latin grammar; composition with English grammar, acquiring of vocabulary; English words derived from Latin; selections for reading. Four hours throughout the year. Eight credits.

2. SECOND YEAR LATIN. D'Ooge, Latin Composition based on Caesar; Bennett, Latin Grammar; selected readings from Part 1, Greenough, D'Ooge and Daniel, Second Year Latin; an equivalent of four books of selections from Caesar; oral and written composition. Attention is given to etymology of English derivatives and cognates. Three hours throughout the year. Six credits.

ETYMOLOGY I.

Analytic study of the scientific vocabulary. Prerequisite, one year of French or German. Two hours, first term. Two credits.
(Hour to be arranged with instructor.)

MUSIC.

PROFESSOR THATCHER.
MRS. LINNARTZ,
MR. SPICKER.

The following courses in music are arranged with the twofold idea of laying a sure foundation for professional work in

this art, and of fitting the student for the proper appreciation and fullest enjoyment of classic compositions of famous composers. Theory of music as exemplified in the study of harmony, counterpoint and musical form, will be considered and, as far as possible, urged upon the student in both vocal and instrumental departments. Ensemble work may be had in the quartette, choir, band and orchestra organizations. These advantages, together with those furnished by free concerts and recitals, constitute the strongest features of a Conservatory Course and will be open to all students of the College.

FOUR YEAR VOCAL COURSE. Completion of four years' regular prescribed work, together with two years of piano and one year of harmony.

FOUR YEAR PIANO COURSE. Completion of regular four years' work as prescribed, together with one year of vocal music and one year of harmony.

FOUR YEAR VIOLIN OR VIOLONCELLO COURSE. Completion of four years' regular prescribed work, together with two years of piano and one year of harmony.

FOUR YEAR COMPOSITION COURSE. Regular prescribed work, together with three years on piano, violin, cello, or cornet.

VOICE CULTURE AND ART OF SINGING.

FIRST YEAR. Breathing, study of vowel forms, elementary vocalization, easy songs.

SECOND YEAR. Vocalization, solfeggio, songs.

THIRD YEAR. Vocal studies, songs, arias, solo parts in easy operas, first year harmony, piano.

FOURTH YEAR. Advanced studies, English classic songs, German and Italian songs, arias, second year piano.

PIANOFORTE.

FIRST YEAR. Position, hand culture, rhythm, scales, elementary work from Gurlitt, Beyer, Czerny and others.

SECOND YEAR. Easy studies and sonatinas by Bertini, Clementi, Kuhlau, Kohler, Loeschorn.

THIRD YEAR. Studies by Czerny, Dorn, Hiller, Gobbaert and Craemer, Sonatas by Mozart, Haydn and others; first year voice and singing.

FOURTH YEAR. Studies by Craemer, Kessler, Clementi, Gradus ad Parnassaum, solo pieces by Schubert, Mendelssohn, Chopin, Raff and others; first year harmony.

ORGAN.

FIRST YEAR. A standard method, and easy studies and selections.

SECOND YEAR. Parallels piano course; carefully chosen selections suitable for the organ.

VIOLIN.

FIRST YEAR. David, School, Book I. Sitt Opus 35.

SECOND YEAR. David, School, Book II. Studies by Kayser; easy solos and duets; orchestra practice; first year piano.

THIRD YEAR. Kreutzer, 42 exercises; studies by Fiorilli; orchestra; second year piano.

FOURTH YEAR. Rode, 24 exercises; Rovelli, 12 exercises; Garinni, 24 exercises; Dont, Gradus; concertos, Viotti, Mendelssohn, etc.; orchestra, first year harmony.

VIOLONCELLO.

FIRST YEAR. Part of Kummer's method for Violoncello with easy selections.

SECOND YEAR. Balance of Kummer's method; easy studies by Dotzauer; orchestra practice, first year piano.

THIRD YEAR. Studies by Dotzauer; pieces moderately difficult; cello parts to easy trios and quartettes; orchestra; second year piano.

FOURTH YEAR. Balance of studies by Dotzauer; pieces of more advanced grades; cello parts to trios, quartettes, etc.; orchestra; harmony.

CORNET AND OTHER BRASS INSTRUMENTS.

The course of study for these various instruments corresponds in general with that for string instruments.

MANDOLIN AND GUITAR.

FIRST TWO TERMS. First, second and third position; part of a standard method, and easy selections.

LAST TWO TERMS. Balance of method; more advanced work and ensemble playing.

HARMONY AND COMPOSITION.

FIRST YEAR. Goetschius Tone Relations; first year of piano and other instruments.

SECOND YEAR. Advanced harmony; simple counterpoint; melody writing; second year piano, violin, etc.

THIRD YEAR. Counterpoint; smaller forms; vocal and instrumental; third year piano, violin, etc.

FOURTH YEAR. Large forms; instrumentation.

GENERAL COURSES.

The following work is open to students, without charge.

Choir and Choral Society, five hours a week. Two credits.
Daily 11:20.

Band and Orchestra, fours hours a week. One credit.
Wed. Fri. 4 to 6.

TUITION.

Term of fifteen weeks, payable in advance. Special students in music pay no entrance fee.

VOICE. Private Instruction.
Fifteen Lessons: Beginners, $15.00; advanced, $22.50.

PIANO. Private Instruction.
Fifteen Lessons: First year, $15.00; second year, $22.50.

REED ORGAN. Private Instruction.
Fifteen Lessons: Beginners, $15.00; advanced, $22.50.

VIOLIN. Private Instruction.
Fifteen Lessons: Beginners, $15.00; advanced, $22.50.

VIOLONCELLO. Private Instruction.
Fifteen Lessons: $15.00.

CLARINET, CORNET AND BAND INSTRUMENTS.
Class Lessons. One lesson a week.....$ 7.50
Private Instruction. One lesson a week..... 15.00

MANDOLIN AND GUITAR.
One lesson a week..... 7.50
Two lessons a week..... 10.00

HARMONY.
Class of two, two lessons a week..... 15.00

PHYSICAL EDUCATION.

PROFESSOR TEETZEL.
MISS JOHNSON.

It is the aim of the Department of Physical Education to foster hygienic habits among the students and so direct their exercise

that they may have a physical development fit to support and make efficient the mental development which they seek in attending the Institution. This is accomplished, first, by giving them the needed opportunity for gymnastic exercises; secondly, by encouraging athletic games, thereby stimulating an interest in their physical efficiency and in the pleasure of physical activity; thirdly, by giving them a guiding knowledge of the principles of physical education. Each student is entitled to a careful physical examination, upon which, as far as possible, his work will be based. Students will be required to wear regulation gymnasium suits and shoes.

PHYSICAL EDUCATION FOR MEN.

1. FOOTBALL.
2. SWIMMING. (a) Beginners. (b) Advanced students.
3. BASKETBALL. (a) College team. (b) Class teams.
4. WRESTLING.
5. BASEBALL.
6. TRACK WORK.
7. FIRST AID TO THE INJURED. Two hours, first term.

PHYSICAL EDUCATION FOR WOMEN.

a.—Tu. Th. Sat. 11:20.
b.—Tu. Th. Sat. 11:20.
1—Tu. Th. Sat. 1.
2—Tu. Th. Sat. 12:10.
3—Daily 3:30 to 5:10.

PHYSICS.

PROFESSOR F. L. WEST.

1a. GENERAL PHYSICS. A first course in the elements of Physics presented mainly from the experimental standpoint. It

includes a study of mechanics, heat, electricity and magnetism, sound and light. The lectures are fully illustrated by appropriate experiments and lantern slides. Prerequisite, one unit of mathematics. Two recitations and two laboratory periods throughout the year. Eight credits.

Lec. Wed. Fri. 8:30, Lab. Tu. Th. 1:50 to 4:20.

1b. GENERAL PHYSICS. A descriptive, non-mathematical course in Physics, primarily for Home Economics and Commercial students, emphasizing the applications of physics in modern life. Three recitations and one laboratory period throughout the year. Eight credits.

Lec. Tu. Th. Sat. 8:30, Lab. Fri. 1:50 to 4:20.

2. AGRICULTURAL PHYSICS. A survey of the whole field of Physics in order to lay a thorough foundation for the subsequent study of this and related subjects, with special emphasis on those principles most useful to the student of Agriculture and Agricultural Engineering and their application in these sciences. Prerequisites, High School Physics and two units of Mathematics. Two recitations and two laboratory periods throughout the year. Eight credits.

Lec. Wed. Fri. 9:20, Lab. Wed. Sat. 1:50 to 4:20.

3. ANALYTICAL AND APPLIED MECHANICS, MOLECULAR PHYSICS, THERMODYNAMICS AND HEAT. Prerequisite, Physics 2 (Mathematics 7 or Physics 6 desirable). Three recitations throughout the year. Six credits.

Not given in 1913-1914.

4. ELECTRICITY, LIGHT AND SOUND. Alternates with Physics 3. Three recitations throughout the eyar. Six credits.

Tu. Th. Sat. 10:10.

5. CHEMICAL PHYSICS. Lectures on some of the fundamental laws and theories of Chemistry and Physics, including the atomic theory, kinetic theory of gases, gaseous, liquid and solid states, solutions, thermo-chemistry, electro-chemistry, chemical statics and dynamics, radio-activity and electron theory. Pre-

requisite, elementary Chemistry and Physics. Two lectures and one laboratory period throughout the year. Six credits.

Lec. Wed. Fri. 10:10, Lab. 1:50 to 4:20.

6. ELEMENTARY MATHEMATICAL PHYSICS. A review of elementary mathematics and its application in Physics and Chemistry. Two hours, second term (Calculus may be taken at the same time).

Tu. Th. 12:10.

7. ADVANCED LABORATORY WORK. Prerequisite, Physics 2 Time and credit to be arranged.

8. PHYSICS OF THE ATMOSPHERE OR METEOROLOGY. A general discussion of the atmosphere, its composition and movements the nature of storms, winds, frosts, dew, cloud, fog, etc. Special study of the methods of weather observations, predictions, and frost warnings. Prerequisite, Elementary Physics. Two lectures first term. Two credits.

Tu. Th. 12:10.

PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY.

1. ADVANCED PHYSIOLOGY. A discussion of movement, sensation, circulation, respiration, digestion, absorption, metabolism and excretion. Questions of hygiene and sanitation are also considered. Three hours, first term. Three credits.

Tu. Th. Sat. 9:20.

2. DIGESTION, ABSORPTION AND METABOLISM. An advanced course in special phases of physiology, dealing mainly with digestion and related subjects. Three lectures, second term. Three credits.

Tu. Th. Sat. 9:20.

3. PHYSIOLOGICAL CHEMISTRY. This course will deal with the chemical interpretation of the transformations going on in the plant and animal organism. Three lectures, second term. Three credits.

Tu. Th. Sat. 10:10.

4. PHYSIOLOGICAL CHEMISTRY. A laboratory course which may accompany the preceding course. Six hours laboratory work per week, second term. Two credits.

POLITICAL SCIENCE.

PROFESSOR THOMAS.
ASSISTANT PROFESSOR HENDRICKS.

1. GOVERNMENT. Our European ancestors, origin of states and state institutions, English and American governments compared, state and foreign service, the treasury, money and coinage banks, the post office, and executive departments, legislation, the constitution, federal and state powers, political parties, party issues. Three hours throughout the year. Six credits.

2. (a) CONSTITUTIONAL LAW. The constitution; the rise of the American Union; distribution and powers of the government; powers of Congress; powers of the Executive; the judicial departments; checks and balances of governments; government of the territory; the admission of new states; amendments to the constitution; civil rights and their guarantees.

(b) INTERNATIONAL LAW. Persons concerned, rights and duties of state, territorial jurisdiction, jurisdiction on high seas agents of the state, nationality, treaties settlement of disputes, war and its effects, military occupation, hostilities, neutrality, contraband blockade.

Three hours throughout the year. Six credits.

3. COMPARATIVE CONSTITUTIONAL GOVERNMENT. A comparative study of the various systems of government,—Greece, Rome, Great Britain, Germany, France, Switzerland, United States. Three hours, second term. Three credits.

4. CONTRACTS. Assent and the necessity of its communica-

tions; offers and their expiration or revocation; consideration; contracts under seal; joint and several contracts; conditional contracts; duress; discharge of contracts by rescission; novation, accord and satisfaction; release. Three hours throughout the year. Six credits.

5. BILLS AND NOTES. Formal requisites; acceptance; indorsement; transfer; overdue paper; extinguishment; obligations of parties; checks; Negotiable Instruments Law. Three hours, first term. Three credits.

Tu. Th. Sat. 1:50.

6. AGENCY. The creation and termination of the relation; nature and execution of the authority; rights and liabilities under the relation; particular classes of agents. Three hours, second term. Three credits.

7. CORPORATION LAW. Private corporations; creation of corporations; implied and granted powers of corporations; powers and liabilities of directors, stockholders, etc. Municipal corporations; legislative control; rights and remedies of creditors; liabilities; power to contract on credit, borrow money and issue negotiable instruments. Three hours, first term. Three credits.

Tu. Th. Sat. 1:50.

8. PARTNERSHIPS. Nature of a partnership, its purposes, and members, creation of partnerships; nature of partners' interest; firm name and good-will; mutual rights and duties of partners; liability of partners; dissolution; debts; distribution of assets; limited partnership. Three hours, second term. Three credits.

9. (a) SALES. Subject-matter of sale; executory and executed sales; bills of lading; fraud, warranty; Statute of Frauds.

(b) MORTGAGES. Form of mortgage—legal and equitable; the substance of the mortgage; elements of the mortgage; situation of the mortgagee and mortgagor.

Three hours, first term. Three credits.

11a. MUNICIPAL GOVERNMENT. This course is a study of municipal government both in Europe and in the United States, with a discussion of the problems of the large city and the small city, municipal ownership, municipal finance, proposed systems of reform, such as the Commission Plan, and other questions of this sort. Each student is required to study in detail the government of some one American city. Three hours, first term. Three credits.

11b. COLONIAL GOVERNMENT. This course takes up the history of colonial enterprise from ancient times to the present, but most stress is laid on modern colonial history. The methods of colonial administration used by the various European nations and by the United States are discussed. Three hours, one term. Three credits.

12. IRRIGATION LAW OR THE LAW OF WATERS. This course will treat of the right of appropriation, natural and artificial water courses, limitation of use, protection of rights, disposal of rights, percolating water, distribution of water, etc. Three hours, one term. Three credits.

SOCIOLOGY.

PROFESSOR THOMAS.
ASSISTANT PROFESSOR HENDRICKS.

1. ELEMENTS OF SOCIOLOGY. A general course in the foundations and principles of sociology, including a careful study of the social organs, social structure, and social activities. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1.

2. PRESENT DAY SOCIAL PROBLEMS, WITH SPECIAL REFERENCE TO RURAL CONDITIONS. This course aims to apply the general principles of sociological science to the problems of modern

agricultural and rural communities. Three hours, second term. Three credits.

Tu. Th. Sat. 12:10.

STENOGTAPHY AND TYPEWRITING.

MR. CANUTE PETERSON.

STENOGRAPHY.

a. STENOGRAPHY. A beginning course in Stenography, designed to fit the student for actual work in the office, or to prepare him for more advanced reporting work. Graham's Phonography, one of the many excellent Pitmanic systems, is used. Five hours throughout the year. Ten credits.

Daily 9:20.

b. STENOGRAPHY. A continuation of Course a. This involves a thorough review of the texts, a study of advanced correspondence, reporting legal matter, speeches, etc. Much transcribing on the typewriter is required. Five hours throughout the year. Ten credits.

Daily 10:10.

1. STENOGRAPHY. A course for students of College grade. The course is designed to prepare the student for office work or to teach Stenography. Five hours throughout the year. Ten credits.

Daily 12:10.

TYPEWRITING.

a. TYPEWRITING. A beginning course in Typewriting. After the simpler exercises, the student learns correct fingering and the proper manipulation of the machine. Special attention is given to the care and mechanism of the typewriter. Five hours throughout the year. Two credits.

Daily, any hour.

b. TYPEWRITING. A special course for those taking Stenography, including a study of correct forms of correspondence, legal forms, etc. As soon as moderate speed is acquired, the work includes the transcription of shorthand notes. Five hours throughout the year. Two credits.

Daily, any hour.

1. TYPEWRITING. A course for students of College grade, supplementing Stenography 1. Five hours throughout the year. Two credits.

Daily, any hour.

VETERINARY SCIENCE.

PROFESSOR FREDERICK.

1. VETERINARY ELEMENTS. This course considers briefly elementary anatomy and physiology and the common ailments of domestic animals; the most prevalent contagious diseases, their causes, symptoms, course, diagnosis and treatment; measures for their prevention and cure. The course is taught by lectures and text books, and illustrated by observation and practice in the free clinics held each week. The aim is to teach the student how to care for and treat the animals on the farm. Three hours, one term. Three credits.

Tu. Th. Sat. 10:10.

2. COMPARATIVE ANATOMY. This course is prepared for students in agriculture, especially in Animal Husbandry. It consists of lectures, illustrated by skeletons and prepared specimens and models. Each student is required to perform practical work in dissection. Two lectures and one laboratory period, throughout the year. Six credits.

3. OBSTETRICS. This course includes a review of obstetrical anatomy, reproduction, hygiene of pregnant animals, obstetric operations, accidents of parturition, and diseases of the young

animals. The college herd and the surrounding stock breeding community give opportunity for pratical work. Three hours, one term. Three credits.

5. CLINICS. Free clinics will be held at the hospital, and all students taking any of the courses in Veterinary Science are required to attend and assist in the work. This work consists of free examination and treatment of the numerous cases brought in, representing all diseases common to this section of country and furnishing the clinic with abundant material for observation and actual application of the work of the class room. Hours and credits to be arranged.

ZOOLOGY.

PROFESSOR TITUS.

a. An elementary course in general Zoology, in which the student obtains a general knowledge of the relation of various groups of animals to one another. In the laboratory especial emphasis is laid on gross structure and the relation of the organs in the different groups. Two recitations and one laboratory period throughout the year. Six credits.

Sec. 1 Lec. Wed. Fri. 8:30, Lab. Tu. 1:50 to 4:20.
Sec. 2 Lec. Wed. Fri. 10:10, Lab. Wed. 1:50 to 4:20.
Sec. 3 Lec. Tu. Th. 9:20, Lab. Th. 1:50 to 4:20.

3. PRINCIPLES OF BREEDING. Lectures and required readings on the biological principles underlying life and the inheritance of characters. Three lectures, one term. Three credits.

Tu. Th. Sat. 8:30.

4. EUGENICS. Lectures and required readings on the principles of heredity as applied to the human race. Special attention is given to the heredity of physical, mental, and moral characters, and their effect on the race. Prerequisite, Zoology 3. Three lectures, one term. Three credits.

Tu. Th. Sat. 8:30.

5. HISTOLOGY. Lectures and laboratory work on the development of the elementary tissues and their microscopic structure. Methods of preparing, staining and mounting tissues. One lecture, two laboratory periods throughout the year. Six credits.

Alternates with Zoology 6.

6. EMBRYOLOGY. General principles of development beginning with the cell and following through the formation of the various membranes. In the second term will be taken up the development of the central nervous system and the related sense organs. One recitation and two laboratory periods throughout the year. Six credits.

Alternates with Zoology 5.

Fri. 9:20, Th. 1, F. 1:50 to 4:20.

7. ADVANCED ZOOLOGY. This course deals with the classification and structure of the common Intermountain forms, especially those of the vertebrate group. Two lectures and one laboratory period, one term. Three credits.

Alternates with Zoology 8.

Lec. Wed. Fri. 12:10, Lab. Th. 1:50 to 4:20.

8. ECONOMIC ZOOLOGY. Lectures on the food habits of our common birds and injurious mammals; their relation to agricultural interests and the methods of control. Three hours, one term. Three credits.

Alternates with Zoology 7.

9. ANIMAL PARASITES. Lectures and laboratory work on the principal external and internal parasites of man and the various animals. Two recitations and one laboratory period, one term. Three credits.

Lec. Wed. Fri. 12:10, Lab. Th. 1:50 to 4:20.

Alumni Association.

In April, 1899, President J. M. Tanner suggested to Miss Anna Beers, '98 and Charles A. Jensen, '97 the desirability of organizing all the degree graduates of the College into an Alumni association. This was the initial step in the direction of the present firmly established organization. Miss Beers and Mr. Jensen prepared, and sent to each of the 34 graduates, a circular letter urging attendance at Commencement, 1899, in order to form a society. They met with a very hearty response. Meetings were held June 13 and 14, 1899; a constitution and by-laws were discussed and adopted; and the following officers were elected: President, Lewis A. Merrill, '95; secretary, Anna Beers, '98; treasurer, Arthur Stover, '99. The following alumni have served as presidents of the association:

1899-1900, L. A. Merrill, '95.
1900-01, J. T. Caine, Jr., '94.
1901-02, W. H. Homer, Jr., '00.
1902-03, Rose Homer, '00.
1903-04, William Peterson, '99.
1904-05, J. W. Jensen, '00.
1905-06, Robert Stewart, '02.
1906-07, C. W. Porter, '05.
1907-08, J. C. Hogenson, '99.
1908-11, Christian Larsen, '96.
1911-12, C. W. Porter, '05.
1912-13, W. D. Beers, '99.
1913-14, Wm. Peterson, '99.

The U. A. C. Alumni Association includes all graduates who hold degrees from any of the courses in the College. It now numbers 384 living members. William Bernard Dougall, '94, Mrs. Anna Sponberg McCarty, '97; Prof. Christian Larsen, '96; Mrs. Hermoine Hart Roberts, '97; John Simon Baker, '99, and Stanley Crawford, '00, have died. With three exceptions, all of the 384 graduates have receivel the degree of Bachelor of Science (B. S.), the particular course being specified in the diploma. In the first two classes, the degree of Bachelor of Civil Engineering (B. C. E.) was given, and W. B. Dougall, '94, A. B. Larsen, '94, and W. F. Culmer, '95, were graduated with this degree.

Twentieth Annual Commencement.

June, 1913.

GRADUATES WITH DEGREES.

Bachelor of Science in Agriculture.

Agronomy.

Bennion, Theron Wilson.....Salt Lake City
Foster, Joseph Downing ..... Layton
Glenn, Walter John.....Logan
Gonzalez, Manrique Rodriguez.....Juarez, Mexico
Haddock, Lon J.....Salt Lake City
Hunsaker, LeGrande .....Honeyville
Martineau, Bryant Sherman.....Logan
Macfarlane, Menzies .....Salt Lake City
Maughan, Howard John.....Logan
Ogden, Junius Francis.....Richfield
Rich, Abel Sargent.....Brigham City
Richardson, Lester Amon.....Ogden
Skinner Joseph Frederick.....Safford, Ariz.
Stewart, George .....Tooele
Stucki, Herman Wilford.....St. George
Wangsgard, Louis Benjamin.....Logan
Welch, Joseph Preston.....Paradise

Agricultural Chemistry.

Carter, Ezra Grover.....Preston, Ida.
Dixon, Asael Harold.....Preston, Ida.
Rees, Charles William.....Coalville

Animal Husbandry.

Bennion, Heber .....Salt Lake City
Cannon, Clawson Young.....Park City
Hansen, Henry Lloyd.....American Fork
Jenson, Norman .....Brigham City
Kirby, Gordon Ivins.....Salt Lake City
Peterson, Norman Vern.....Richfield
Price, Sterling Elliott.....Provo
Reed, Harry Slater.....Ogden
Sharp, David, Jr.....Logan
White, John Edward.....American Fork

Botany and Forestry.

Bird, Vernon Amasa.....Springville

Entomology.

Barrett, Edward Lewis.....Logan
Kewley, Robert James.....Logan

Horticulture.

Holmgren, Edwin John.....Bear River City
Knudson, William Warren.....Brigham
Olsen, Joseph William.....Crescent
Peterson, John Henry.....Smithfield
Stucki, Alfred.....St. George

Home Economics.

Adams, Katherine Pearl.....Layton
Burnham, Ivie May.....Vernal
Burton, Josephine.....Afton, Wyo.
Carlson, Marie.....Ogden
Davenport, Ethel.....Manti
Hunsaker, Veda Laura.....Honeyville
Johnson, Myrtle Ivy.....Logan
Jensen, Olive Eudora.....Brigham City
Knudson, Ivy Eustane.....Brigham City
Lee, Mary Lucile.....Hoytsville
Lyman, Amy.....Salt Lake City
Mathisen, Anna Marie.....Logan
Madsen, Vera Mae.....Bloomington, Ida.
Nelson, Etta.....Logan
Ure, Lenore.....Salt Lake City
Weiler, Vera.....Salt Lake City

Commerce.

Greene, Mark Hindley.....American Fork
Groebli, Katharine Elizabeth.....Logan
Haslam, James Edward.....Wellsville
Luscher, John.....Brigham City
McMullen, Robert Wallace.....Leeds
Sharp, Adalena Patti.....Logan
Tunks, Samuel Van.....Oneida, Ida.

Agricultural Engineering.

West, Charles Henry.....Ogden

General Science.

Bastow, Mary Lovina.....Logan
Burk, Asahel Woodruff.....Logan
Brown, Mark Clegg.....Salt Lake City

Clarke, William Larson.....Provo
Coombs, Dryden Rogers.....Salt Lake City
Fister, George Morgan.....Logan
Fowler, Benjamin Alma.....Hooper
Gardner, George .....Logan
Haddock, Don Carlos.....Bloomington, Ida.
Hallock, Edwin Smith.....Salt Lake City
Hansen, Charles Francis.....Leeds
Hartvigsen, Hyrum Jacob.....Logan
Hickman, Joseph .....Logan
Lowe, Arnold .....Beaver
Jonsson, Elmer Eugene.....Logan
Lauritzen, John Irvin.....Moroni
Minear, Virgil Luther.....Salt Lake City
Mohr, Ernest .....Logan
McCoy, William Judson.....Salt Lake City
Morrell, Adella .....Logan
Munro, Florence Allison..... .....Logan
Nebeker, Phebe Almira.....Logan
Poulsen, Frederick Niels.....Salt Lake City
Prosser, William Davies.....Salt Lake City
Pack, Herbert John.....Woods Cross
Rawlings, William Senior.....Salt Lake City
Reilly, Evelyn .....Salt Lake City
Richards, Bert Lorin.....Logan
Stearns, Harold Jordan.....Salt Lake City
Smith, Leslie Albert.....Logan
Spencer, Frank Daniel.....Salt Lake City
Worlton, James Timbrell.....Salt Lake City
Wangsgard, Ione .....Logan

GRADUATES WITH CERTIFICATES.

Home Economics.

Hodson, Edith .....Ogden

Commerce.

Picot, Alfred George.....Logan

List of Students, 1912-13.

In the following list "a" stands for Agriculture; "ae", for Agricultural Engineering; "ho", for Home Economics; "c", for Commerce; "ma", for Mechanic Arts; "g", for General Science; "m", for Music; "hk", for Housekeepers' Conference; "r", for Round-up; "cr", for Correspondence Department; "ss", for Summer School; "w", for Winter Course; "G", for Graduates; "S", for Senior; "J", for Junior; "So", for Sophomore; "F", for Freshman; "Sp", for Special; "O", for Optional; "4", for Fourth Year; "3", for Third Year; "2", for Second Year; "1" for First Year.

Adams, Basil H., ae-3 ..... Tremonton
Adams, Charles, ma-1 ..... Layton
Adams, Frank D., a-2 ..... Layton
Adams, Franklin J., r ..... Bluff
Adams, J. Vernon, a-2 ..... Logan
Adams, Jeanette, ss ..... Logan
Adams, Katherine, ho-S ..... Layton
Adams, R. N., r ..... Richfield
Adams, Samuel J., r ..... Layton
Adams, Venice, ho-w ..... Logan
Adair, Emma, ss ..... Cedar City
Ajax, Matthew D., cr ..... Tooele
Aldare, J. R., r ..... Glenwood
Ackerman, D. J., r ..... Tremonton
Ackerson, Annie, Mrs. hk ..... Richfield
Acbuschar, Louise, ss ..... Logan
Affleck, Arville, g-1 ..... Logan
Agren, Rose Ellen, ho-J ..... Ogden
Alder, Byron, ss ..... Manti
Alder, Ferdinand C., a-J ..... Manti
Alder, C., r ..... Providence
Alexander, Blaine H., a-1 ..... Heber
Alleman, Lelia, ss ..... Springville
Allen, Alice, m ..... Richmond
Allen, Ethan La Salle, a-S ..... Kingston
Allen, Ethel Lowe, ho-3 ..... Cove
Allen, Ezra, r ..... Logan
Allen, J. C., r ..... Cove
Allen, Mavil, m ..... Cove
Allen, Jeanette, ss ..... Kingston
Allen, Rebecca, hk ..... Logan
Allen, Robert Leslie, a-3 ..... Logan
Allen, Thomas, a-3 ..... Provo
Allen, W. J., ss ..... Wellsville
Alred, Rodney C., ma-G ..... Lehi
Andelen, A. A., Mrs. hk ..... Richfield

Anderson, Andrew P., a-J.....Fillmore
Anderson, Adeline, ss.....North Logan
Anderson, Alma, r.....Salina
Anderson, A. C.,ss.....Ogden
Anderson, Andrew, r.....Marysvale
Anderson, Anton Mrs.,hk.....Logan
Anderson, Anton Frank, ma-2.....Shelley Idaho
Anderson, A. M., r.....Sigurd
Anderson, Carl, r.....Annabella
Anderson, Charles D., a-2.....Fort Duchesne
Anderson, Daniel, r.....Annabella
Anderson, Erwin, r.....Sigurd
Anderson, Hans P., a-J.....Hyrum
Anderson, J. Fred, g-J.....Salt Lake City
Anderson, Joseph A., a-So.....Salina
Anderson, Joseph C., ma-W.....Clarkston
Anderson, J. Oscar, r.....Salina
Anderson, L. M., r.....Mendon
Anderson, Mabel E., ho-2.....Smithfield
Anderson, Oluf, r.....Richfield
Andrews, Junius J., a-G.....Logan
Andrus, Ariel, ma-1.....Mammoth
Andrus, Lynn, ae-J.....Mammoth
Archer, Edward J., r.....St. John
Argyle, Ben, r.....Spanish Fork
Argyle, Horace R., a-So.....Spanish Fork
Avery, Frank, r.....Salina
Avery, William, r.....Venice
Axelson, Arvid, r.....Elsinore
Aldous, Tura, g-F.....Huntsville
Amussen, George Smith, g-1.....Logan
Austin, Gean, m.....Lewiston
Austin, John Leslie, ma-1.....Salt Lake
Austin, Wayne, m.....Monteplier, Idaho
Austin, Victor, a-So.....Salt Lake City
Austin, E. A., r.....Lewiston
Austin, E. A., hk.....Logan
Ashby, B. T., r.....Marysvale
Bacon, Helen, ho-3.....Logan
Baer, Adolph, r.....Providence
Baer, A. L., r.....Providence
Baer, J. R., r.....Providence
Bagley, James, r.....Koosharem
Bagley, Kathleen, ho-So.....Murray
Bailey, W. H., cr.....Murray
Baker, Blanche, c-3.....Richfield
Baker, Carl, a-2.....Logan
Baker, Edna, ss.....Mendon
Baker, George, r.....Richfield
Baker, Mrs. George, hk.....Richfield
Baker, J. S., r.....Mendon
Baker, Jessie M., r.....Teton City, Idaho
Baker, Mrs. Sarah, hk.....Logan

Baker Mrs. Saddie, hk.....Logan
Baker, William, cr.....Loa
Balls, L., r.....Hyde Park
Ball, L. A., r.....Logan
Ball, W. M., r.....Hyde Park
Ballantyne, Glenna, ho-2.....Logan
Ballantyne, R. A., r.....Logan
Ballantyne, Mrs. R. B.,hk.....Logan
Ballif, Leonard H., a-2.....Logan
Bane, James, ma-W.....Moreland
Barber, Herbert R., ma-w.....Logan
Barber, George Percy, g-1.....Logan
Barber, Solon R., g-1.....Logan
Barber, Seth Langton, c-F.....Logan
Barber, Walter F., a-F.....Logan
Barker, J. D., a-J.....Ogden
Barker, Nellie, ho-So.....Ogden
Barfuss, Christian D., c-2.....Logan
Barfuss, Charles, a-w.....Logan
Barlow, Mrs A. C., hk.....Richfield
Barlow, G., r.....Richfield
Barlow, James, r.....Richfield
Barlow, Mrs. Kate, hk.....Richfield
Barnard, Nellie, ss.....Garland
Barnes, Herschel, a-1.....Standrod
Barney, Malenda, ho-Sp.....Logan
Barney, R. H., r.....Annabella
Barrett, Edward, L., a-S.....Logan
Barrett, Florence, c-1.....Logan
Barton, Mrs. N. S.,hk.....Richfield
Barton, Scott, r.....Richfield
Bartlett, Allan, C-F.....Salt Lake
Bastain, G., r.....Sigurd
Bastow, George, r.....Richfield
Bastow, Irvin S., C-1.....River Heights
Bastow, Mary L., g-S.....Logan
Bates, Flora, hk.....Richfield
Bates, George L., a-So.....Monroe
Bateson, Arthur Grant, c-w.....Logan
Batt, William B., aSp.....Logan
Bawley, C. B., r.....Inverury
Black, C. T., r.....Richfield
Blackburn, Allie, hk.....Richfield
Blair, Millington, a-2.....Logan
Blauer, John F., a-w..... Granger
Brain, Mrs, Hattie, hk.....Junction
Bracken, Aaron F., a-S.....Stockton
Bench, Edward H., cr.....Union, Ore.
Bennion, Edward, r.....Logan
Bennion, E. A., a-2.....Logan
Bennion, Heber, Sr., r.....Salt Lake City
Bennion, Heber, Jr., a-S.....Salt Lake City
Bennion, Lavon, ho-2.....Logan

Bennion, Lora, ho-1 ..... Logan
Bennion, Mary, ho-So ..... Salt Lake
Bennion, T. W., a-S ..... Sandy
Benson, Emory H., a-1 ..... Newton
Benson, E. T., r ..... Weston
Benson, F. A., r ..... Logan
Benson, Grette R., ho-So ..... Logan
Benson, Hedvig, ho-J ..... Logan
Benson, John Phineus, a-So ..... Newton
Benson, L. T., r ..... Weston
Benson, W., r ..... Logan
Bengard, M., r ..... Venice
Bentler, Amy, ss ..... Montpelier
Bently, Isaura, C-1 ..... Logan
Bentley, Richard I., a-w ..... St. George
Berg, Louise, ss ..... Bringham City
Bergeson, Abraham, a-w ..... Logan
Bergeson, Bernard, C-1 ..... Logan
Bergstrom, Mary, ho-So ..... Cedar City
Berrett, Thomas E., a-w ..... North Odgen
Beagley, Le Roy, ss ..... Nephi
Beal, George A., r ..... Richfield
Beal, George A, r ..... Richfield
Beal, Mary, hk ..... Richfield
Bean, Annie, hk ..... Richfield
Bean, C. L., r ..... Richfield
Bean, Cecile, hk ..... Richfield
Bean, Hattie, hk ..... Richfield
Bean, J. W., r ..... Richfield
Bean, Mary, hk ..... Richfield
Bean, Orea, g-3 ..... Provo
Bean, Virgil, r ..... Richfield
Beautler, Charles R., r ..... Richfield
Bearnson, Julius B., c-J ..... Logan
Bearnson, Wm. L., g-3 ..... Castledale
Becraft, Raymond, a-So ..... Ogden
Behling, John W., a-3 ..... Ferron
Bell, Alma, a-w ..... Logan
Bell, Clyde, r ..... Glenwood
Bell, H. H., r ..... Glenwood
Bell, Mrs. H. H., hk ..... Glenwood
Bell, Lizzie, hk ..... Glenwood
Bell, Mrs. Lerie,hk ..... Glenwood
Bell, M. O., r ..... American Falls
Belliston, William T., cr ..... Nephi
Belnap, Hyrum A.,C-Sp ..... Ogden
Bills, Lancelot, a-1 ..... Riverton
Bingham, B. F., r ..... Logan
Bingham, Mrs. J. L., hk ..... Logan
Bingham, Martham, C-1 ..... Logan
Bingham, P. P., r ..... Smithfield
Bingham, Mrs. S. L., hk ..... Logan
Bingham, S. L., a-Sp ..... Logan

Bingham, Mrs. W., hk.....Logan
Birch, Byron, ae-F.....Coalville
Bird, Lucille, g-1.....Mendon
Bird, Verne, a-S.....Springville
Bislen, Jacob S., r.....Loa
Bitters, Mrs. Eliza, hk.....Logan
Bitters, Joseph, r.....Collinston
Blickensderfer, Jacob, ae-1.....Logan
Brigham, William, r.....Logan
Bodrero, Jeffrey, r.....Logan
Bolitho, James M., r.....Richfield
Bolitho, Mrs. J. M., hk.....Richfield
Bolitho, Mary A., hk.....Richfield
Booth, John Albert, a-So.....Nephi
Borg, Antone, r.....Richfield
Borquist, John, r.....Richfield
Bowen, John E., C-J.....Spanish Fork
Bowman, Nell, ss.....Ogden
Bogle, Louis F., a-G.....Murray
Bjorkman, Arthur, C-2.....Logan
Bjorkman, Carla Aurora, c-2.....Logan
Bloomquist, G. W., r.....Richfield
Brodbent, J., r.....Sigurd
Brossard, Elmer, a-S.....Logan
Brossard, Howard S., ae-F.....Logan
Brough, Phoebe, hk.....Logan
Brough, S. R., r.....Lyman
Brown, Eva, ss.....Ogden
Brownell, Wm. F., cr.....Salt Lake
Browning, Miss O., hk.....Logan
Browne, Allen, a-1.....Mammoth
Brown, Carrie, ho-1.....Logan
Brown, Mark C., g-sp.....Salt Lake
Brown, Scott B., a-1.....Logan
Brown, S. G., r.....Koorsharem
Brown, W. T., r.....Hatch
Buchanan, A. W., r.....Venice
Buchanan, Boyd, r.....Venice
Buchanan, Clarence, r.....Venice
Buchanan, Elwood, r.....Venice
Buchanan, Edward, r.....Venice
Buchanan, L. D., r.....Venice
Buchanan, Roy, r.....Venice
Buchanan, W. W., r.....Venice
Buck, Richard F., g-So.....Park City
Budge, Scott Merrill, g-1.....Logan
Buhler, Charles Edwin, a-2.....Midway
Bullen, Bryant, a-J.....Logan
Bullen, Syrus, r.....Richfield
Bullock, Harold, r.....Providence
Bullock, J. B., r.....Providence
Burgess, Donna V., cr.....Roosevelt
Burgon, Horace W., r.....Pleasant Grove

Burgon, Vera, g-F.....Garland
Burk, Asahel W., g-S.....Logan
Burk, Ellen J., ss.....Ogden
Burk, J. W., r.....Elsinore
Burnett, David M., c-2.....Mackay, Idaho
Burnett, Grover, a-F.....Darlington, Idaho
Burnham, Caroline, ho-3.....Logan
Burnham, Ethelin, ss.....Richmond
Burnham, Pauline, g-sp.....Salt Lake
Burnham, Ivie, ss.....Logan
Burnham, Linda, ss.....Richmond
Burgener, W. H., ss.....Midway
Burns, Retta, c-So.....Logan
Burton, Josephine, ho-S.....Ogden
Burton, Myrtle, hk.....Logan
Burton, Sarah A., hk.....Logan
Burton, Walter B., a-3.....Salt Lake
Busby, Bert W., g-1.....Logan
Butt, Newbern Isaac, a-So.....Lehi
Buttors, Grover, a-w.....Clarkston
Buttors, Towney, a-w.....Clarkston
Brugger, G., r.....Venice
Brugger, George, r.....Venice
Brugger, Willard, r.....Venice
Cahoon, Andrew C., a-1.....Murray
Cahoon, George E., a-So.....Murray
Caine, Alfred B., a-J.....Richmond
Caine, Arthur H., a-F.....Richmond
Caine, John S., a-w.....Salt Lake City
Caine, Joseph, g-F.....Salt Lake City
Caine, Robert, g-F.....Salt Lake City
Calloway, Anna, hk.....Richfield
Canfield, Charles I., c-1.....Preston, Ida.
Campbell, Geneva, m.....Perry, Ida.
Cannon, Anna, hk.....Logan
Cannon, Clawson Y., a-S.....Park City
Cannon, Clyde Peart, ma-4.....Logan
Cannon, J. M., r.....Logan
Cannon, John B., r.....Salt Lake City
Capener, A. A., r.....Riverside
Cardon, E. P., r.....Logan
Carlson, Charles, r.....Logan
Carlson, Conrad S., g-So.....Logan
Carlson, Joseph, r.....North Logan
Carlson, Fred J., ma-1.....Oxford, Ida.
Carlson, Marie, ho-S.....Ogden
Carlson, Nels, r.....Logan
Carlson, Nephi, r.....Logan
Carlson, Olga, ss.....Logan
Carlson, Raymond, c-So.....Logan
Carlson, Vincent S., g-1.....Logan
Carlisle, Heber G., hk.....Logan
Carlisle, Martha A., ho-2.....King

Carrington, Albert, g-Sp.....Logan
Carrington, Mrs. C., hk.....Logan
Carroll, Daniel S., a-1.....Vernal
Carroll, Esther A., hk.....Logan
Carroll, Leroy E., a-3.....Vernal
Carroll, Orval, a-1.....Vernal
Carson, J. Alma, r.....Richmond
Carson, LaRue, ho-3.....Richmond
Carter, Ezra, a-S.....Logan
Carter, Wesley J., m.....Tremonton
Catmull, Nathaniel, c-1.....Biggs, Cal.
Chalk, Barnetta, hk.....Richfield
Chambers, Josephine, g-J.....Salt Lake
Chambers, Veda E., cr.....Smithfield
Chandler, C. H., r.....Salt Lake City
Chantrill, James, r.....Benson
Charlesworth, George, r.....Richfield
Clark, Ernest, a-So.....Logan
Clark, Edward John, g-Sp.....Logan
Clark, Harold Grover, c-1.....Morgan
Clark, Lu Emma, ss.....Logan
Clark, Lester Laverne, a-w.....Clarkston
Clark, Maud, ss.....King
Clark, Paul Michael, a-w.....Clarkston
Clark, Walter E., cr.....Georgetown, Ida.
Clark, William S., g-S.....Provo
Clark, Lucina, ss.....Springville
Clarke, Rebecca, ss.....Logan
Clawson, Alma, r.....Preston, Ida.
Clawson, A. J., ss.....Hyrum
Clawson, Edna, hk.....Logan
Clawson, Elmer, g-1.....Providence
Clawson, Leo B., c-J.....Providence
Clayton, Christine, ho-J.....Salt Lake City
Clayton, Irving E., a-F.....Salt Lake City
Clayton, Robert, c-F.....Salt Lake City
Crabtree, R. M., r.....Providence
Cragun, D. J., a-3.....Smithfield
Cragun, James A., ma-w.....Smithfield
Cragun, LaVon, cr.....Smithfield
Crandall, Russell, g-S.....Springville
Crane, Heber, a-w.....Riverton
Cramer, Carl A., ma-w.....Huntsville
Cranney, Clyde W., a-1.....Logan
Cranney, Rose W., ho-1.....Logan
Crawford, Blythe, g-So.....Corinne
Clyde, Grover, a-S.....Springville
Chidester, J. M., r.....Venice
Child, V. Cleveland, ss.....Chester
Christensen, Alice, hk.....Richfield
Christensen, A. D., ae-F.....Fairview
Christensen, Archie, ss.....Brigham City
Christensen, Axell, a-J.....Monroe

Christensen, Bertha M., hk.....Richfield
Christensen, C. A., r.....Monroe
Christensen, Carn, hk.....Richfield
Christensen, Carlos, r.....Richfield
Christensen, C. J., r.....Inverury
Christensen, Emma Amelia, ss.....Logan
Christensen, Ethel, hk.....Richfield
Christensen, Erastus, r.....Redmond
Christensen, Mrs. Erastus, hk.....Redmond
Christensen, Etta, hk.....Redmond
Christensen, G. A., r.....Redmond
Christensen, Gladys, ho-F.....Logan
Christensen, H. A., ss.....Nephi
Christensen, Hans, r.....Richfield
Christensen, Hans A., r.....Richfield
Christensen, Hans P., r.....Richfield
Christensen, Hans P., r.....Annabella
Christensen, Hans., r.....Richfield
Christensen, Isabel, hk.....Richfield
Christensen, J. C., hk.....Richfield
Christensen, James, r.....Inverury
Christensen, James, r.....Richfield
Christensen, John, r.....Richfield
Christensen, John, r.....Richfield
Christensen, Josephine, hk.....Richfield
Christensen, Laura, hk.....Monroe
Christensen, Leonard, r.....Richfield
Christensen, Martinius, r.....Richfield
Christensen, Mrs. Martin, hk.....Richfield
Christensen, Nephi E., r.....Richfield
Christensen, Ole, ss.....Nephi
Christensen, Oswald, ss.....Preston, Ida.
Christensen, Ralph, r.....Richfield
Christensen, Randall, a-3.....Moroni
Christensen, Roy, r.....Richfield
Christensen, Simon, r.....Richfield
Christensen, Thursa, hk.....Richfield
Christensen, Viggo, r.....Inverury
Christensen, Walter, r.....Inverury
Christensen, William, r.....Richfield
Christensen, Mrs. William, hk.....Richfield
Christensen, W. C., r.....Richfield
Christensen, W. W., ss.....Tremont
Christenson, Anton, r.....Bear River City, Ida.
Christenson, Chris., r.....Bear River City, Ida.
Christenson, H. E., r.....Clearfield
Christenson, Nephi, r.....North Logan
Christenson, Wallace, r.....Clearfield
Christiansen, Archie L. a-J.....Fountain Green
Christiansen, Charles, r.....Inverury
Christiansen, C. K., r.....Inverury
Christensen, Mrs. Florence, hk.....Logan
Christiansen, George, r.....Richfield

Christiansen, Hans Anthon, a-J.....Nephi
Christiansen, Mrs. James, hk.....Richfield
Christiansen, John B., r.....Inverury
Christiansen, Jennie, ss.....Hyrum
Christiansen, L. P., r.....Redmond
Christiansen, Lena, hk.....Monroe
Christiansen, Maud, hk.....Richfield
Christiansen, P., r.....Elsinore
Christiansen, Soren, r.....Redmond
Christiansen, Stena, hk.....Richfield
Christiansen, Mrs. Sorn, hk.....Richfield
Christianson, Edward, g-3.....Spanish Fork
Critchlow, George, ma-1.....Ogden
Criddle, William, r.....Syracuse
Criddle, Millie, hk.....Logan
Criddle, Estella, hk.....Logan
Christofferson, Anna, hk.....Richfield
Colby, Joseph, r.....Salina
Cole, Ira A., g-Sp.....Logan
Coleman, James, r.....Nephi
Collett, Luella L., ho-1.....Logan
Condie, John W., g-Sp.....Croydon
Coombs, D. R., g-S.....Salt Lake City
Cook, A. L., a-J.....Garden City
Cook, Helen L., ho-1.....Garland
Coons, Charles, r.....Richfield
Coons, G. W., r.....Richfield
Coons, J., r.....Richfield
Coons, J. W., r.....Richfield
Coons, John, r.....Richfield
Cooper, Mildred, hk.....Logan
Cornish, Tilla, ho-Sp.....Logan
Cornwall, Rose, hk.....Logan
Cotter, Clarence E, a-So.....Lehi
Crockett, John Leslie, c-1.....Logan
Crockett, Eva, c-4.....Logan
Crook, Margaret, cr.....Heber City
Crook, Ray, a-2.....Garden City
Crookston, Agnes, ho-Sp.....Logan
Crookston, Burns, ae-F.....Logan
Crookston, Byron, a-Sp.....Logan
Crookston, Laurn, a-2.....Greenville
Crookston, Newell J., c-F.....North Logan
Crookston, W. O., r.....North Logan
Crothers, W. H., r.....Logan
Crowsier, J. W., r.....Salina
Crowther, Alice, hk.....Logan
Crowther, Rachel, hk.....Logan
Coumerihl, Joseph, r.....Blackfoot, Ida.
Cowley, B. F., r.....Venice
Cowley, Charles H., c-F.....Logan
Cowley, C. W., Jr., r.....Glenwood
Cowley, Dottie, hk.....Venice

Cowley, E. A., hk.....Richfield
Cowley, F. W., r.....Venice
Cowley, Israel A., c-O.....Logan
Cowley, J. W., r.....Logan
Cowley, J. E., r.....Venice
Cowley, J. C., r.....Venice
Cowley, Jennie, hk.....Venice
Cowley, Laura, ho-J.....Logan
Cowley, Ray, r.....Venice
Cowley, R. A., r.....Venice
Cowley, Vorsell, r.....Venice
Cowley, W. C., r.....Venice
Chuggs, W. H., r.....Providence
Chugg, Mabel, hk.....Logan
Churchman, Edith, ho-2.....Fish Haven, Ida.
Cutler, Ethel, ho-J.....Logan
Cutler, Heber S., r.....Salt Lake
Curtis, Alfred, r.....Aurora
Curtis, C. G., a-Sp.....Logan
Dahle, LaVere, ma-w.....Clarkston
Dahle, John E., r.....Logan
Dahle, Mrs. J. E., hk.....Logan
Dahle, Russel, ma-w.....Clarkston
Daines, J. B., r.....Hyde Park
Daines, LaVere Hatch, c-w.....Logan
Daines, William M., r.....Mapleton
Dallof, Albert, c-So.....Smithfield
Dalley, John E., r.....Logan
Dalley, Kate, ss.....Cedar City
Dalley, Milton F., r.....Logan
Dall, David, r.....Richfield
Dall, Sam, r.....Richfield
Dame, W. F., a-w.....Meadow
Davenport, Ethel, ho-S.....Manti
Daniels, Shirley K., a-So.....Vernal
Daniels, Virginia, ss.....Logan
Daniels, William, r.....Annabella
Danielson, Rose, ss.....Paradise
Davis, Frank S., cr.....Castle Gate
Davis, A. G., r.....Logan
Davis, Marion L., g-1.....Tooele
Davidson, Myrtle, g-Sp.....Logan
Davidson, Edward, ma-w.....Fort Bridger, Wyo.
Davidson, Edith, g-Sp.....Logan
Davidson, H. A., r.....Fort Bridger, Wyo.
Davidson, Leonard L., a-So.....Ogden
Davidson, Martha, m.....Logan
Dastrup, Jacob, r.....Sigurd
Dastrup, John, r.....Sigurd
Dastrup, Leland, r.....Sigurd
Dastrup, Ethel, hk.....Richfield
Dastrup, Lula, hk.....Sigurd
Dastrup, Miga, hk.....Sigurd

Dastrup, Minnie, hk.....Sigurd
Dastrup, Ole, r.....Richfield
Dastrup, Pauline, hk.....Sigurd
Day, C. H., cr.....Fillmore
DeWitt, Robert R., g-1.....Logan
Despin, James L., r.....Venice
Desplain, C. L., cr.....Fountain Green
Dewey, J. S., ss.....Deweyville
Dixon, Asael H., a-S.....Logan
Dixon, Mrs. C. F., hk.....Payson
Dixon, F. C., r.....Payson
Dixon, Riley, c-1.....Manard, Ida.
Doll, Earl, ma-1.....Kidder, Mo.
Done, Alice, c-3.....Smithfield
Done, Ann, hk.....Junction
Done, J. F., r.....Richfield
Doney, William, c-2.....Franklin, Ida.
Donahue, Mrs., hk.....Richfield
Dorius, J. M., cr.....Fountain Green
Doutre, William, c-F.....Logan
Downs, Ethel S., ho-1.....Logan
Dudley, B. S., r.....Logan
Dudley, Park, ma-1.....Logan
Duke, Verne V., ma-3.....Santaquin
Dunford, A. B., r.....Logan
Dunford, Bailey A., ma-w.....Logan
Dunford, George M., c-2.....Logan
Dunford, Grover C., c-F.....Logan
Dunford, James L., ma-3.....Bloomington, Ida.
Dunford, R. B., ss.....Bloomington, Ida.
Dunford, Rachel G., g-F.....Salt Lake
Dunkley, Mrs. J. A., hk.....Logan
Dunn, John, r.....Joseph
Dunn, William, r.....Joseph
Durtchi, Fred, ma-1.....Midway
Durtchi, Huldrich, a-1.....Charleston
Druckeman, Benjamin, cr.....Clarion
Dyches, Mrs. T. W., hk.....Castle Dale
Eames, Nathaniel, a-2.....Preston, Ida.
Earle, Frank M., a-1.....Logan
Earle, Ira J., c-3.....Logan
Eccles, Emma, ho-1.....Logan
Eccles, Jessie, g-3.....Logan
Eccles, Marie, g-Sp.....Logan
Eccles, Spencer, c-F.....Logan
Eckerson, Joseph, r.....Salina
Edlefsen, Edlef, a-3.....Logan
Edwards, May, g-Sp.....Logan
Edwards, Mclairon, g-1.....Logan
Egbert, Delmar, c-2.....Logan
Egbert, Roy, ss.....Logan
Egbert, Melvin, ma-w.....Logan
Elder, Lillian S., ho-So.....Logan

Eldridge, James S., r.....Salt Lake
Eldridge, H. R., r.....Cardston, Canada
Eliason, Andrew, r.....Logan
Ellertson, Jesse N., c-J.....Mona
Ellis, Rebecca, c-1.....Logan
Elliott, Hattie, hk.....Richfield
Ellsworth, Genevieve, ho-1.....Rigby, Ida.
Ellsworth, John O., a-So.....Logan
Ellsworth, Orba, c-So.....Rigby, Ida.
Ence, Amelia, hk.....Richfield
Ence, J. A., r.....Richfield
England, Henrietta V., ho-1.....Logan
England, Virginia, m.....Logan
Evans, Lawrence H., g-Sp.....Nephi
Evans, William, r.....Logan
Erickson, Mrs., hk.....Richfield
Erickson, Edward, r.....Koorsharem
Erickson, Irene E., ho-1.....Logan
Erickson, Joseph, r.....Richfield
Erickson, Judith, c-3.....Logan
Erickson, Theodore, a-F.....Murray
Eskelsen, David W., ma-So.....Kamas
Eskelsen, B. D., hk.....Logan
Esplin, Alma, ss.....Orderville
Ewing, Bess, ss.....Ogden
Fackrell, Cyrus F., a-w.....Blackfoot, Ida.
Fairbanks, Joseph, r.....Annabella
Fairbanks, Mrs. Joseph, hk.....Annabella
Falkinan, George B., r.....North Logan
Farrell, George L., r.....Smithfield
Farrell, A. L., r.....Logan
Farrell, Gladys, ss.....Logan
Farrell, James, a-3.....Salt Lake
Farrell, Lola, ho-3.....Smithfield
Farnsworth, P. Y., r.....Elsinore
Franson, John, r.....Oakley
France, Horace R., ma-1.....Peterson
Fraser, E. S., g-J.....Salt Lake
Felt, Arthur, ma-2.....Huntsville
Fletcher, Samuel, ma-2.....Hooper
Frederick, Albert, r.....Providence
Frederick, Myron, r.....Providence
Frederick, Mrs. Lillie, hk.....Logan
Fredericks, Mrs. N., hk.....Logan
Freese, Dr., hk.....Salina
Frew, Arnold, a-F.....Hooper
Frew, Eugene, a-J.....Hooper
Fife, Charles Stanley, a-w.....Idaho Falls, Ida.
Fife, Lewis, r.....Providence
Fife, Walter, r.....Providence
Fillmore, Mrs. Bell, hk.....Richfield
Finley, Lucy, ss.....Oneida, Ill.
Fishburn, Hope, ho-Sp.....Brigham City

Fister, George, g-S.....Logan
Fister, Grace, ss.....Salt Lake City
Fitch, Howard, a-w.....Eureka
Flint, Letitia, g-Sp.....North Logan
Fonnesbeck, Luna, g-Sp.....Logan
Fonnesbeck, Lydia, ss.....Logan
Fonnesbeck, N. C., r.....Logan
Ford, John, r.....Sigurd
Forbes, C .H., c-J.....Ogden
Foster, Edna, ho-Sp.....Preston, Ida.
Foster, Joseph D., a-S.....Layton
Foster, Winnifred, ho-2.....Preston, Ida.
Fowler, Benjamin A., g-S.....Hooper
Fowler, David Henry, g-Sp.....Hooper
Foutz, Mrs. E. A., hk.....Richfield
Floyd, Lyman E., c-3.....Driggs, Ida.
Floyd, Ruby C., ho-2.....Driggs, Ida.
Frodsham, Mary, ho-F.....Rockland
Freeman, Alf., ss.....Brigham City
Fry, Henry B., cr.....Morgan
Fry, Lee Ralph, a-1.....Morgan
Fuhriman, Godfrey, r.....Providence
Fuhriman, Joseph, r.....Providence
Fuller, Lilly Jane, ho-2.....Eden
Fuller, Lydia, m.....Eden
Fuller, Eva May, ho-w.....Eden
Fuller, Robert E., c-w.....Eden
Fullmer, Effie, ho-Sp.....Circleville
Funk, C. L., r.....Richmond
Gardener, John A., r.....Logan
Gardner, Erastus S., a-2.....Pine Valley
Gardner, George, g-S.....Logan
Gardner, G. H., r.....Mendon
Gardner, Grandison, g-F.....Logan
Gardner, Marie, g-F.....Logan
Gardner, Robert V., ma-w.....Sandy
Gardner, William, r.....Venice
Gardner, Mrs. William, hk.....Richfield
Gardner, Willard, g-G.....Logan
Garff, Orson A., r.....Draper
Garner, Marie, ho-So.....Ogden
Gates, Franklin Y., g-3.....Salt Lake City
Grace, J. W., r.....Riverton
Grace, Elonard, r.....Salt Lake City
Gramse, R., r.....Richfield
Gramse, Tell, r.....Richfield
Gramse, Vialate, hk.....Logan
Grant, Fred James, a-3.....Salt Lake
Grant, E., hk.....Logan
Grant, George M., r.....Hyde Park
Grant, Mary, ss.....Hyde Park
Grant, Mary, ss.....Salt Lake City
Graham, William, r.....Annabella

Grandin, John J., ae-3.....Logan
Gray, S. R., r.....Inverury
Gray, Leo., g-2.....Perry, Ida.
Grant, Francis C., g-3.....Perry, Ida.
Gleason, A. H., r.....Logan
Gleason, Mary, ss.....Pleasant Grove
Gleaves, H., r.....Annabella
Gleaves, Walter, r.....Annabella
Gleddell, J. G., r.....Sigurd
Gledhill, Elanson, r.....Richfield
Gledhill, Dr., r.....Richfield
Gledhill, John E., r.....Richfield
Gledhill, L. B., r.....Vermilion
Gledhill, Thomas, r.....Vermilion
Glenn, Walter J., a-S.....Logan
Greene, H., r.....Salt Lake City
Greene, J. T., cr.....Salt Lake City
Green, Ambrose L., ma-1.....Clover
Green, Clifford J., ma-1.....Clover
Green, Harry M., a-F.....Salt Lake City
Green, Maggie D., ss.....Layton
Green, Mark H., c-S.....American Fork
Greaves, Card, c-3.....Logan
Gregerson, C. L., r.....Elsinore
Greenwood, Bertha, r.....Central
Greenwood, E. M, r.....Elsinore
Greenwood, H., r.....Inverury
Greenwood, Josie, ss.....American Fork
Greenhalgh, Eurilla, ho-Sp.....Logan
Greenhalgh, Truman, c-2.....Logan
Greenhalgh, Violet, ho-J.....Logan
Gibbons, Olga B., ss.....Logan
Gilbert, Eliza A., hk.....Joseph
Gilbert, Thomas, r.....Joseph
Griffin, Amos R., a-J.....Newton
Griffin, John E., r.....Newton
Griffin, Reuben L., ma-w.....Clarkston
Griffiths, Andrew H., ma-w.....Clarkston
Griffiths, William H., ss.....Clarkston
Gittens, Effie, g-S.....Mendon
Griswold, Scott, ma-w.....Lee, Nev.
Godbe, Lawrence, ae-So.....Salt Lake City
Godbe, Lawrence, r.....Hyde Park
Gonzalez, Manrique R., a-S.....Logan
Goodwin, Charles H., a-3.....Logan
Goodwin, Clarence, a-1.....Logan
Goodwin, Nettie, g-J.....Logan
Goodsell, Mrs. Charles, hk.....Logan
Goodspeed, W. E., a-S.....Salt Lake City
Godfredson, Louisa, hk.....Richfield
Goldbranson, Miss, hk.....Richfield
Goldbrandson, Mrs. Lon, hk.....Richfield
Gorning, Alta, hk.....Richfield

Gowers, Roy, a-So.....Nephi
Groebli, Albert, c-1.....Logan
Groebli, Katharine Elizabeth, c-S.....Logan
Groebli, Gladys, ho-2.....Logan
Guild, Leonard G., a-1.....Piedmont, Wyo.
Gunn, Klea M., ho-2.....Hoytsville
Gunn, Welford, r.....Sigurd
Hackett, G. F., r.....Glenwood
Haddock, Lon J., a-S.....Salt Lake
Haddock, Don C., g-S.....Bloomington, Ida.
Hadley, James A., r.....Swan Lake
Hagan, Mrs. G .A., hk.....Logan
Hagan, Harold R., a-J.....Salt Lake
Hailstone, Jane Maria, c-1.....Logan
Hailstone, John Leland, a-3.....Logan
Hale, A. L., r.....Starvalley
Hale, Edward E., ae-J.....Salt Lake
Hale, George Ray, a-J.....Spanish Fork
Hale, Loyal Sample, ma-1.....Logan
Hale, Lyman H., c-2.....Logan
Hale, Sarah Annie, ho-3.....Logan
Hale, Roy, r.....Starvalley
Hale, Xenia LaVere, ho-1.....Logan
Hales, Ethel, ho-So.....Park City
Hales, H. B., r.....Richfield
Hales, Roy B., ma-1.....Provo
Halgren, Denzil, c-3.....Logan
Hall, Earl, ma-w.....Huntsville
Hall, E. M., r.....Raymond, Ida.
Hall, John C., cr.....Nephi
Halliday, Charles O., cr.....Gunnison
Halls, Mrs. M. J., hk.....Logan
Hallock, E. S., g-Sp.....Salt Lake
Halverson, Evelyn, c-1.....Helper
Hammond, Andrew M., r.....Providence
Hammond, Chesty, m.....Providence
Hammond, Diantha, g-Sp.....Logan
Hammond, Ervin Arthur, c-w.....Ursine, Nev.
Hammond, Floyd, ae-F.....Logan
Hammond, Robert L., cr.....Marysville, Ida.
Hansen, Mrs. Abe, hk.....Richfield
Hansen, Ada, ss.....Tremonton
Hansen, Andrew, r.....Logan
Hansen, Mrs. Anna, hk.....Richfield
Hansen, Arsena, g-1.....Salt Lake
Hansen, A. K., r.....Richfield
Hansen, Mrs. A. K., hk.....Richfield
Hansen, Bernard L., r.....Providence
Hansen, Charles F., g-S.....Leeds
Hansen, C. H., r.....Glenwood
Hansen, George D., r.....Providence
Hansen, George P., r.....Richfield
Hansen, Henry L., a-S.....American Fork

Hansen, Hortense L., ho-So.....Salt Lake
Hansen, Hyrum, r.....Richfield
Hansen, H. C., r.....Trenton
Hansen, Mrs. H. C., hk.....Logan
Hansen, H. P., r.....Richfield
Hansen, James, r.....Richfield
Hansen, John, r.....Richfield
Hansen, Joseph, r.....Richfield
Hansen, J. S., r.....Glenwood
Hansen, Leo A., ma-2.....Logan
Hansen, L. H., r.....Joseph
Hansen, Lorene, hk.....Richfield
Hansen, Mary, hk.....Richfield
Hansen, Melton G., a-1.....Providence
Hansen, Mrs. Nettie, hk.....Logan
Hansen, Niels, r.....Richfield
Hansen, Pearl, ss.....St. Joseph, Ariz.
Hansen, Reuben, a-F.....Hyrum
Hansen, Mrs. Reuben, hk.....Logan
Hansen, Russell, r.....Richfield
Hansen, Sarah, hk.....Richfield
Hansen, Mrs. Sophia, hk.....Glenwood
Hanset, Benjamin, r.....Annabella
Hanson, Albert L., c-J.....Logan
Hanson, Erlese P., a-2.....Providence
Hanson, Nellie P., hk.....Logan
Hanson, P. O., r.....Paradise
Harding, George D., g-Sp.....Logan
Harding, Phebe, ss.....Willard
Harmon, Tessie, ho-So.....Price
Harper, Osmond, r.....Brigham
Harper, W. F., r.....Smithfield
Harrington, Daniel T., a-w.....Salt Lake
Harrington, Jennie, ho-Sp.....Salt Lake
Harris, Aleck E., r.....Richmond
Harris, D. Earl, ss.....Logan
Harris, Irvin H., c-1.....Logan
Harris, Martin, a-J.....Monroe
Harris, S. R., r.....Lewisville
Harris, Walter M., c-2.....Almy, Wyo.
Harrison, Mrs. hk.....Salina
Hartwigsen, Hyrum J., g-S.....Logan
Hartwigsen, Mrs. H. J., hk.....Logan
Haslam, James E., c-S.....Wellsville
Hatch, J. W., r.....Koorsharem
Hatch, Robert William, c-3.....Woods Cross
Hatch, S. J., r.....Koorsharem
Hatch, Joseph E., g-3.....Logan
Hawks, F. C., ss.....Ogden
Hawley, A. R., r.....Inverury
Hawley, Mrs. O. K., hk.....Central
Hawley, Mrs. Violate, hk.....Central
Haws, Arlington, a-1.....Logan

Haws, F. O., ss.....Garland
Haws, Vaughan, a-So.....Logan
Haws, Wesley W., a-F.....Logan
Haws, Mrs., hk.....Richfield
Hay, Thomas J., r.....Riverside
Hayball, Edith, g-Sp.....Logan
Hayball, Lucille, ho-Sp.....Logan
Hayes, H. M., r.....Richfield
Hayes, Junius J., r.....Richfield
Hays, Mrs. J. J., hk.....Richfield
Heaton, Lorene, ho-1.....Orderville
Heaton, William Carroll, a-1.....Orderville
Heinrich, George, c-F.....Smithfield
Heizer, Kate L., ss.....Memphis
Heldberg, Gustav O., a-3.....Logan
Heldberg, Richard E., a-2.....Logan
Helquist, Alf., r.....Glenwood
Hendricks, Mrs. A., hk.....Logan
Hendricks, B. A., r.....Lewiston
Hendricks, Chris, r.....Glenwood
Hendricks, Mrs. G. B., hk.....Logan
Hendricks, Heber, r.....Richfield
Hendricks, Iris, ho-Sp.....Richmond
Hendricks, Jessie, ss.....Richmond
Hendricks, John A., ae-3.....Logan
Hendricks, J. W., r.....Richmond
Hendricks, Leland, ma-1.....Richmond
Hendricks, Lenoel, ma-w.....Logan
Hendricks, Lorin Asa, a-2.....Richmond
Hendricks, Lurea, ho-2.....Richmond
Hendricks, M. A., r.....Pocatello
Hendricks, Mariner W., a-F.....Richmond
Hendricks, Victor, a-2.....Lewiston
Hendricks, Vida Zelnora, c-2.....Logan
Hendricks Wolstein g-F.....Richmond
Hendrickson, Christian, r.....Glenwood
Hendrickson, C., r.....Glenwood
Henrie, Arthur W., r.....Richfield
Henrie Arthur, r.....Richfield
Henry, George E., ma-1.....Marysvale
Heppler, F R., r.....Venice
Heppler, Frank, Mrs. hk.....Richfield
Heppler, F. J., r.....Richfield
Heppler, C. M., r.....Richfield
Heppler, Julius, r.....Redmond
Heppler, J. E., r.....Richfield
Hermansen, C., Mrs. hk.....Richfield
Hermansen, J. M., r.....Elsinore
Hermansen, S. C., r.....Elsinor
Hermanson, Mary, Mrs. hk.....Richfield
Hess, George M., a-J.....Farmington
Hess, Oswell F., a-w.....Farmington
Heward, N. P., r.....Malad, Idaho

Hickenlooper, C. H., r.....Ogden
Hickenlooper, Frank, a-F.....Ogden
Hickman, James, Mrs. hk.....Logan
Hickman, Joseph, g-Sp.....Logan
Hickson, Jack, r.....Glenwood
Higgson, N. Y., r.....Hatch
Higley, Erwin, c-So.....Far West
Hilerson, H. E., r.....Glenwood
Hill, Edith, g-Sp.....Logan
Hill, Ethel, ss.....Franklin, Idaho
Hill, G. A., r.....Venice
Hill, R. L., ss.....Springville
Hillman, Genevieve, g-J.....Logan
Hillman, Clarence L., ma-2.....Logan
Hillman, Eugene, a-1.....Mammoth
Hillyard, Inez, ss.....Smithfield
Hinckley, Charles O., ma-2.....Ogden
Hirst, A. R., r.....North Logan
Hirst, Hogen, r.....North Logan
Hobson, Ivan L., a-S.....Ogden
Hobusch, Wilhelmina, ho-3.....Salt Lake
Hodges, Eliza, ss.....Garden City
Hodges, Elizabeth, ss.....Garden, City
Hodson, Edith, ho-4.....Ogden
Hoffman, E. E., r.....Richfield
Hoffman, R., Mrs. hk.....Richfield
Hogan, Nana, ho-3.....Lewiston
Hogan, J. W., r.....Richfield
Holden, Susie, ho-Jr.....Logan
Homer, R. K., r.....Provo
Holmgren, Edwin J., a-S.....Bear River City, Idaho
Holmgren, J. P., r.....Bear River City, Idaho
Hood, John, Mrs. hk.....Richfield
Hopkins, Ella, ss.....Kanosh
Hopkins, Flora, Mrs. hk.....Joseph
Hopkins, J. H., r.....Logan
Hopkins, Sybil, c-2.....North Logan
Horn, Martha, hk.....Richfield
Horne, Florence, hk.....Salina
Horne, W. R., r.....Richfield
Horton, Joseph, r.....Inverury
Hoskins, Ellen, hk.....Logan
Hoskins, W. H., ss.....Wellsville
Houston, Thomas, r.....Panguitch
Houtz, Melpha, ss.....Springville
Hovey, Izene, c-So.....Millville
Hovey, Sidney, c-F.....Millville
Howes, Henry, r.....Marysvale
Howell, Alfred, ss.....Fishhaven, Idaho
Howell, Mary, g-J.....Logan
Howell, Victoria, ho-1.....Logan
Howells, Byron, c-3.....Logan
Hupp, Armena, ss.....Driggs, Idaho

Huff, Elva, ho-So.....Logan
Hughes, Gommer, r.....Malad
Hughes, Rowland, a-F.....Logan
Hulet, A. E., r.....Pocatello
Hulet, Hope, ho-2.....Peterson
Hulet, Nephi, ma-1.....Peterson
Hulme, Benjamin, ss.....Bloomington, Idaho
Hulme, Charlotte, ss.....Bloomington, Idaho
Humphreys, Asia, g-So.....Logan
Humphreys, Caddie, g-So.....Logan
Humphreys, Eddie F., c-w.....Logan
Humphreys, L. R., Mrs. m.....Logan
Humphreys, Ray B., a-F.....Salina
Humphreys, Rhoda, ss.....Salina
Humphreys, T. G., r.....Joseph
Hunsaker, Israel, Jr. r.....Honeyville
Hunsaker, Israel, Mrs. hk.....Honeyville
Hunsaker, Le Grande, a-S.....Honeyville
Hunsaker, Veda, ho-S.....Honeyville
Hunter, David L., a-1.....Logan
Hurtig, John, r.....Newton
Hurd, Eliza, ss.....Brigham
Hutteball, Marie, ss.....Logan
Hutteball, Sarah, ss.....Logan
Hyde, Beth, ho-3.....Logan
Hyde, Charles H., r.....Hyde Park
Hyde, Hattie, hk.....Logan
Hyde, Lyle, ho-1.....Logan
Hyde, William, r.....Logan
Hyer, A. L., r.....Smithfield
Hurst, Charles T., g-G.....Logan
Hurst, Hugh, a-3.....Logan
Hutchings, Lawrence S. c-3.....American Fork
Ingram, Alonzo, cr.....Nephi
Isaacson, Carl, r.....Brigham
Isaacson, Lodena, ho-1.....Garland
Israelson, O. W., ss.....Hyrum
Isaacson, May, ho-J.....Brigham City
Izatt, Irene, ss.....Logan
Iverson, Enoch, r.....Tremonton
Iverson, Neils, r.....Redman
Ivie, Byron, r.....Salina
Ivie, C. M., r.....Aurora
Ivins, Stanley, a-J.....Salt Lake City
Ivins, Florence, ss.....Salt Lake City
Jackson, Emily, ho-Sp.....Annabella
Jackson, Orlando, r.....Venice
Jackson, Ren., ma-2.....Logan
Jacobson, Eunice, ss.....Logan
Jacques, Myrtle, ss.....Logan
James, Amasa E., a-1.....Park Valley
James, Ted, r.....Fort Wayne

James, J. P., r.....Paradise
Jameson, Peery, a-3.....Lewiston
Jorgensen, Ida, hk.....Richfield
Jorgensen, Matilda, hk.....Salina
Jeffs, Marie C-1.....Logan
Jeffery, Mrs. Nora, hk.....Richfield
Jenkins, Dale, C-1.....Logan
Jenks, Wilford, C-1.....Logan
Jennings, D. S., ss.....Logan
Jensen, Andreas, r.....Richfield
Jensen, A., r.....Richfield
Jensen, Mrs. Alexander, hk.....Richfield
Jensen, C. B., r.....Elsinore
Jensen, Mrs. C. N., hk.....Logan
Jensen, Mrs. Dan, hk.....Richfield
Jensen, D. P., r.....Richfield
Jensen, Doyle S., a-w.....North Logan
Jensen, Ethel, m.....Logan
Jensen, Irwin, r.....Richfield
Jensen, Fred, r.....Providence
Jensen, Floyd S., r.....Huntsville
Jensen, H. E., ss.....Ephriam
Jensen, Joseph, r.....Sigurd
Jensen, Mrs. J. W., hk.....Logan
Jensen, Mrs. Junita, hk.....Richfield
Jensen, James, r.....Richfield
Jensen, Kisty, hk.....Richfield
Jenson, Leo G., C-1.....Logan
Jensen, Lewis, r.....Richfield
Jenson, Marie, hk.....Logan
Jensen, Martin, Jr., r.....Richfield
Jensen, Mary, ss.....Brigham City
Jensen, Norman, a-S.....Brigham City
Jenson, Olive, ho-S.....Brigham City
Jenson, Orville, hk.....Logan
Jensen, Olif, r.....Bear River City, Idaho
Jenson, Oloff, r.....Brigham City
Jenson, Peter, r.....Geneva
Jensen, R. N., r.....Sigurd
Jensen, Thomas P., r.....Glenwood
Jensen, Vernal, r.....Providence
Jensen, William Carl, a-1.....Providence
Jeppsen, Imogene, ss.....Brigham
Jessen, Andrew, r.....Richfield
Jessen, Mrs. Louise, hk.....Richfield
Jessen, Myrl, hk.....Richfield
Jessen, Maggie, hk.....Richfield
Jessen, Millie, hk.....Sigurd
Jessop, Geneieve, hk.....Logan
Jessop, J. L., r.....Millville
Jessop, Mrs. M., hk.....Logan
Jessop, Richard, r.....Millville
Johansen, Arthur, ma-1.....Morgan

Johansen, Leo, ma-Sp.....Huntsville
Johnston, David, a-1.....Hooper
Johnson, A. A., ss.....Corinne
Johnson, Austin, ma-1.....Holden
Johnson, Andrew, ss.....Newton
Johnson, Alvin, r.....Richmond
Johnson, C. W., cr.....Nephi
Johnson, Dora, hk.....Richfield
Johnson, Dora, ho-Sp.....Spring City
Johnson, Mrs. E. C., hk.....Logan
Johnson, Eric A., c-J.....Logan
Johnson, George A, c-J.....Pocatello, Idaho
Johnson, Mrs. G. H., hk.....Richfield
Johnson, Hedve, ss.....Pleasant Grove
Johnson, Henry, r.....Richfield
Johnson, Helma, ss.....Logan
Johnson, James, r.....Richfield
Johnson, Mabel, ss.....Logan
Johnson, Mrs. J. E., hk.....Logan
Johnson, Lola, ho-3.....Spring City
Johnson, Lawrence O., c-1.....Logan
Johnson, Myrtle, ho-S.....Logan
Johnson, Mark, c-3.....Holden
Johnson, Minnie, ho-Sp.....Smithfield
Johnson, Peter, r.....Logan
Johnson, Ruth, ho-F.....Logan
Johnson, Theo. R., ae-So.....Grantsville
Johnson, Thaddeus, ma-1.....Holden
John, Thomas P., r.....West Portage
Jones, C. G., r.....Providence
Jones, David W., g-F.....Logan
Jones, Cora, ho-J.....Cedar City
Jones, E. T., a-So.....Lehi
Jones, Effie, ss.....Cedar City
Jones, George M., r.....Richfield
Jones, Hilda V., ss.....Logan
Jones, Joseph P., a-3.....Wellsville
Jones, Mrs. Hortense, hk.....Richfield
Jones, J. L., ae-So.....Monroe
Jones, Reuben M., a-3.....Brigham City
Jones, Rose, ss.....Brigham City
Jones, Ruth, ss.....Wellsville
Jones, Stella, ho-1.....Logan
Jones, W. L., ss.....Hyrum
Jones, W. T., r.....Malad, Ida.
Jonsson, Elmer E., g-S.....Logan
Jonsson, Reuben, a-2.....Logan
Jonsson, William O., cr.....Salt Lake
Jorgensen, Moses, r.....Logan
Jouse, George, r.....Elsinore
Juel, Emar, ma-w.....Salt Lake
Justesen, Osmon, g-S.....Provo
Karren, George, r.....Lewiston

Karren, Harold, ma-w.....Logan
Kartchner, Linda, ho-F.....Salt Lake City
Kartchner, O. K., c-2.....Salt Lake City
Krank, Louis, r.....Providence
Kjar, Clinton, a-So.....Manti
Kellar, Claudius, a-1.....Logan
Kellar, Bessie E., g-Sp.....Logan
Kellstrom, Herbert, r.....Logan
Kempton, Charles A., a-1.....Logan
Kent, J. C., r.....Millville
Kent, Riley, r.....Logan
Keral, Alfred, r.....Laketown
Kerr, Gerald, a-S.....Logan
Kerr, Coral, ss.....Logan
Kewley, Robert J., a-S.....Logan
Kresle, William, r.....Providence
Kidzell, Stella L., ho-1.....Logan
Kidman, Lyman, ae-J.....Petersborough
Kimball, J. G., a-F.....Salt Lake City
Kimball, Mrs. Leo, hk.....Logan
King, Eliza, ho-3.....North Logan
Kirby, Gordon, a-S.....Salt Lake City
Kirkbride, J. W., cr.....Smithfield
Kirkbride, J. W., g-Sp.....Smithfield
Kirkbride, Lilas, g-F.....Smithfield
Kirkman, John, r.....Richfield
Knight, A., r.....Sigurd
Kloepfer, Rachel, ho-3.....Logan
Kloepfer, F. J., r.....Logan
Knowlton, Burnham, c-1.....Farmington
Knowlton, Richard, ae-Sp.....Farmington
Knowles, Ernest, r.....Logan
Knowles, Milton, r.....Logan
Kotter, A. F., r.....Elsinore
Kotter, H. J., r.....Elsinore
Kotter, Mrs. H. J., hk.....Joseph
Knudson, Eustave, ho-S.....Brigham City
Knudson, Joseph, r.....Brigham City
Knudson, J. Floyd, a-So.....Brigham City
Knudson, Warren W., a-S.....Brigham City
Kyhl, John H., r.....Richfield
Kyle, Emma, hk.....Richfield
Lamb, Lavon G., a-2.....Hyde Park
Lamb, George Z., r.....Hyde Park
Lamb, John J., r.....Hyde Park
Lamb, S. E., r.....Hyde Park
Larsen, Ada, ss.....Logan
Larsen, Annie V., ho-2.....Garland
Larsen, Chris, r.....Richfield
Larsen, David, r.....Cove
Larsen, Estella, ho-2.....Logan
Larsen, Howard W., a-2.....Logan
Larsen, Henry, r.....Elsinore

Larsen, James, r.....Ogden
Larsen, James J., ma-1.....Logan
Larsen, Joseph W., a-w.....North Logan
Larsen, J. C., r.....Lewiston
Larsen, J. R., r.....Logan
Larsen, Joseph, r.....Richfield
Larsen, Naomi, ho-1.....Logan
Larsen, Oliver, r.....North Logan
Larsen, Peter, r.....North Logan
Larsen, Parley, c-1.....Logan
Larsen, Ruth, ss.....Garland
Larsen, R. V., ss.....Smithfield
Larsen, S. D., r.....Hunter
Larsen, Victor R., c-1.....Logan
Lattimer, Dana, g-2.....Salt Lake City
Laub, G. W., r.....Logan
Lauritzen, John I., g-S.....Moroni
Laurensen, E. J., c-S.....Downey, Ida.
Lay, J. C., r.....Panguitch
Learned, Welthea, ss.....Salt Lake
Leavitt, Elmer, ma-1.....Richfield
Lee, Ethel, ss.....Hoytsville
Lee, F. E., r.....Hyde Park
Lee, Orvil L., r.....Hyde Park
Lee, R. E., r.....Hyde Park
Lee, Hazel, ho-F.....Rigby, Ida.
Lee, Mar, ho-3.....Idaho Falls, Ida.
Lee, Bertel A., a-1.....Hoytsville
Lee, Lucille, ho-S.....Hoytsville
Lee, Mrs. J. C., hk.....Logan
Lee, Mrs. Orvil L., hk.....Logan
Lee, M. H., hk.....Logan
Leigh, H. Webster, ae-So.....Cedar City
Leslie, Austin J., ma-1.....Salt Lake City
Levett, J. G., r.....Richfield
Lewis, Grover, a-3.....Logan
Lewis, Lewie, ma-1.....Logan
Lewis, T. C., a-Sp.....Logan
Lewis, M. A., r.....Lewiston
Lewis, Guy, r.....Richfield
Lindblad, Victor L., a-1.....Logan
Lindquist, Ariel, a-2.....Logan
Linnartz, Emma, m.....Logan
Litz, Oka, ho-1.....Lewiston
Litz, William E., c-F.....Lewiston
Lloyd, Jonathan, r.....Richfield
Lloyd, Parley, r.....Alexander
Lloyd, Thomas W., r.....Logan
Lofthouse, Mrs. C. E., ho-w.....Logan
Lofthouse, C. E., a-w.....Paradise
Longstroth, Lynn, r.....Mendon
Lott, Peter, r.....Richfield
Loosle, Reuben O., a-w.....Clarkston

Loosle, W. J., c-1 ..... Clarkston
Lorentzen, Eden C., a-2 ..... Salina
Lorensen, G. Leon, ma-3 ..... Elsinore
Lovendale, Laura, cr ..... Salt Lake City
Low, Althea, ho-Sp ..... Beaver
Low, Arnold, a-S ..... Beaver
Low, George, r ..... Richfield
Low, Nina, hk ..... Richfield
Lowe, Morris D., a-So ..... Providence
Lowe, Silver, a-2 ..... Logan
Lowe, Sylvester, r ..... Smithfield
Lucas, Emma, hk ..... Logan
Luke, A. M., hk ..... Junction
Luke, H. C., hk ..... Junction
Luke, John T., r ..... Junction
Luke, W. H., r ..... Junction
Lundberg, E., a-Sp ..... Logan
Lundstrom, Oscar, c-2 ..... Logan
Luscher, John, c-S ..... Brigham
Lyman, Amy, ho-S ..... Salt Lake
Lyle, Wesley B., a-2 ..... Idaho Falls, Ida.
Lynd, S., r ..... Lewiston
McAllister, Charles K., c-1 ..... Logan
McAlister, I. L., a-3 ..... Logan
McAlister, Mrs. J. A., hk ..... Logan
McAlister, Wallace S., a-F ..... Logan
McAlister, W. W., ss ..... Salt Lake
McBride, Brice, ae-J ..... Salt Lake
McCracken, Joyce, cr ..... Smithfield
McCarty, Homer, r ..... Richfield
McCarty, Mrs. Homer, hk ..... Richfield
McClain, Marguerite, c-1 ..... Logan
McClellan, Scott, c-1 ..... Payson
McConkie, Oscar W., g-F ..... Moab
McCoy, W. J., g-S ..... Salt Lake
McCullock, Dave, r ..... Logan
McCulloch, Ella, c-1 ..... Logan
McCulloch, Lawrence, a-1 ..... Logan
McCulloch, Robert, r ..... Logan
McCulloch, Lillian, c-4 ..... Logan
McCune, A. F., r ..... Logan
McEwan, Ella, ho-F ..... Logan
McEwan, Lula, ho-w ..... Logan
McEwen, Ralph V., a-w ..... Logan
McFarlane, J. M., r ..... Salt Lake
McGregor, Charles, g-J ..... Cleveland, Ida.
McKellys, E., r ..... Provo
McKenzie, Katie, c-4 ..... Rupert, Ida.
McMillan, John B., r ..... Venice
McMullen, Robert W., c-S ..... Leeds
McMurdie, Mrs. Samuel, hk ..... Logan
McMurdie, Samuel M., ma-w ..... Paradise
McOmber, C. D., r ..... Logan

McQueen, Joseph J., c-w.....Preston, Ida.
Macfarlane, Menzies, a-S.....Salt Lake
Madsen, Archer R., a-w.....Morgan
Madsen, Ilta, ho-Sp.....Bloomington, Ida.
Madsen, Howard P., a-So.....Manti
Madsen, Roy M., a-J.....Gunnison
Madsen, S. J., r.....Brigham City
Madsen, Vera, ho-S.....Bloomington, Ida.
Magleby, Ephraim, r.....Monroe
Magleby, Mrs. M. A., hk.....Monroe
Magleby, Parley, r.....Richfield
Magleby, Rulon, r.....Monroe
Major, Robert W., g-F.....Ogden
Malan, R. S., ss.....Ogden
Manning, Clarence, c-F.....Hooper
Marlmquist, August, r.....Vermilion
Marrell, John, r.....Junction
Martineau, Bryant, a-S.....Logan
Martineau, Claire, ho-Sp.....Logan
Martineau, Charles F., a-J.....Logan
Martineau, John E., r.....Thatcher, Ida.
Mason, Ila, hk.....Aurora
Mathisen, Anna, ho-S.....Logan
Mathisen, Sophia, ho-Sp.....Logan
Mathisen, William M., a-3.....Logan
Maughan, Armenia, g-Sp.....Logan
Maughan, Barbara, ss.....Wellsville
Maughan, D. H., r.....Wellsville
Maughan, Evan O., a-w.....Logan
Maughan, Howard J., a-S.....Logan
Maughan, Mrs. E. J., hk.....Logan
Maughan, Mrs. Jessie, hk.....Logan
Maughan, Lovina, ss.....Logan
Maughan, E. Leroy, a-1.....Logan
Maughan, M. O., ss.....Logan
Maughan, Mabel, ss.....Logan
Maughan, Ren H., a-2.....Hyrum
Maughan, W. H., ss.....Wellsville
Mau, Albert, a-3.....Logan
Maw, Wilmer J., a-3.....Plain City
Mayer, Clifford A., ae-So.....Bingham
Mecham, Leland H., ma-2.....Morgan
Meek, Benjamin A., a-2.....Logan
Meek, D. R., r.....Logan
Meeks, Mrs. J., hk.....Richfield
Meyer, Gustav, a-1.....Providence
Merrill, Alberto E., a-J.....Smithfield
Merrill, Charles Leo, a-G.....Richmond
Merrill, J. H., r.....Blackfoot, Ida.
Merrill, L. E., r.....Richmond
Merrill, Mrs. Laurin, hk.....Logan
Meteer, Harold, r.....Richfield
Miles, Douglas, a-3.....Smithfield

Miles, Jennie, ss.....Paradise
Miles, Joan, ss.....Smithfield
Miles, Rae, ho-1.....Smithfield
Miller, Elmer, c-S.....Provo
Miller, Ervin, r.....Richfield
Miller, G. C., r.....Afton
Miller, John, r.....North Logan
Miller, L., r.....Richfield
Miller, Minnie, ss.....Salt Lake City
Miller, Sarah, hk.....Logan
Milligan, James, cr.....Smithfield
Milligan, James, r.....Smithfield
Milligan, Mrs. M., hk.....Logan
Minear, Virgil, g-S.....Salt Lake
Mitchell, Edgar, g-So.....Salt Lake
Mohr, Anna, ho-F.....Logan
Mohr, Andrew J., g-3.....Logan
Mohr, Ernest, g-S.....Logan
Molyneau, A. R., a-w.....Logan
Molyneau, Earl, ma-w.....Logan
Monson, Mrs. A. D., hk.....Logan
Monson, Earl, ma-2.....Richmond
Monson, Ezra P., c-2.....Franklin, Ida.
Monson, Leroy F., c-3.....Logan
Monson, V. L., ma-2.....Richmond
Monson, W. A., c-3.....Logan
Montrose, Charles E., c-2.....Logan
Moore, Ambrose J., ma-w.....Logan
Moore, George E., ma-3.....Moab
Moore, Harry L., c-1.....Sublet, Wyo.
Moore, James A., r.....Joseph
Moosman, Mrs. J. H., m.....Boulder
Moosman, J. H., ma-1.....Boulder
Moosman, Mrs. Joseph H., hk.....Logan
More, A. J., r.....Austin
Morgan, E. A., r.....St. John
Morgan, James Jr., g-1.....Logan
Morgan, Kate, ho-F.....Logan
Morgan, Norman F., a-So.....Salt Lake
Morrell, Della, g-S.....Logan
Morrell, Mrs. Erma, hk.....Richfield
Morrell, George, r.....Richfield
Morrell, Mrs. M. D., hk.....Logan
Morrell, Winifred, g-J.....Logan
Morrison, Alice, ho-So.....Brigham City
Morrison, James B., r.....Richfield
Morrison, Mrs. J. B., hk.....Richfield
Mortensen, George H., r.....Joseph
Mortensen, Joseph, r.....Richfield
Moses, Elmer W., a-2.....Smithfield
Mouritsen, Emma L., ho-So.....Logan
Mouritsen, Dagmar, hk.....Logan
Muir, James R., ma-1.....Woods Cross

Muir, Milton, r.....Logan
Muir, William, r.....Logan
Muir, William J., ma-1.....Woods Cross
Mullinier, Mrs., hk.....Venice
Munk, Andrew, r.....King
Munk, Newell E., a-3.....King
Munroe, Florence, g-S.....Logan
Murray, D. P., ss.....Wellsville
Murray, Milton W., a-1.....Wellsville
Nalder, Byron J., a-2.....Layton
Nash, Bartlett M., c-2.....Franklin, Ida.
Nash, Laura, c-2.....Franklin, Ida.
Nyman, James, c-w.....North Logan
Nyman, Ernest L., a-1.....North Logan
Nebeker, A., hk.....Logan
Nebeker, Acel H., g-3.....Logan
Nebeker, Mrs. A. D., hk.....Richfield
Nebeker, A. D., r.....Annabella
Nebeker, Mrs. Cardie, hk.....Richfield
Nebeker, Elias, r.....Annabella
Nebeker, Hazelton R., ma-1.....Laketown
Nebeker, Hyrum, r.....Laketown
Nebeker, John, r.....Logan
Nebeker, Marie, m.....Logan
Nebeker, Mrs., hk.....Annabella
Nebeker, Phoebe A., g-S.....Logan
Nelson, Anna, ho-3.....Mink Creek, Ida.
Nelson, Anthon, g-J.....Honeyville
Nelson, Conrad, g-3.....Honeyville
Nelson, David J., c-J.....Huntsville
Nelson, Mrs. Eliza, hk.....Richfield
Nelson, Emma, g-Sp.....Brigham City
Nelson, Ephraim, r.....Moroni
Nelson, Estella, ho-3.....Logan
Nelson, Etta, ho-S.....Logan
Nelson, Freda, g-Sp.....Brigham City
Nelson, G. A., a-J.....Logan
Nelson, George, r.....Logan
Nelson, Hilda, g-Sp.....Brigham City
Nelson, Irvin, cr.....Morgan
Nelson, Jennie, ss.....Logan
Nelson, Jesse, a-2.....Ferron
Nelson, Mrs. John, r.....Logan
Nelson, Luella, ho-3.....Logan
Nelson, Lewis E., c-F.....Logan
Nelson, Myra, c-1.....Logan
Nelson, Myrtle, ho-3.....North Logan
Nelson, P. M., r.....Richmond
Nelson, Virgil H., ss.....Sandy
Nelson, W. A., r.....Sandy
Neeley, A. M., r.....Riverdale
Neeley, Ardella, cr.....Salt Lake
Neves, Ernest, r.....Millville

Nesbitt, Levi K., a-F.....Wellsville
Newman, Hazel, ss.....Pleasant Grove
Nibley, Carlile, g-1.....Logan
Nibley, Margaret, g-Sp.....Logan
Nielson, A. A., cr.....Oakley, Cal.
Nielson, Ames, r.....Richfield
Nielson, Amos, hk.....Richfield
Nielson, Mrs. Charles, hk.....Richfield
Nielson, D. O., r.....Hyrum
Nielson, Ernest, r.....Hunter
Nielson, G. W., c-F.....Hyrum
Nielson, Hyrum J., a-2.....Logan
Nielson, M. K., r.....Richmond
Nielson, Martineus, r.....Richfield
Nielson, W. C., r.....Richfield
Nielson, Pearl C., ho-J.....Logan
Nielson, Peter, r.....Richfield
Nielson, Peter, r.....Elsinore
Nielson, Regatta, hk.....Logan
Nielson, Taylor, r.....Richfield
Nielson, Vera E., ho-3.....Logan
Nielson, Walter, r.....Marysvale
Nielson, Wilford E., a-So.....Richfield
Nisson, C. W., c-3.....Logan
Nisson, W. O., cr.....Washington
Noble, Rae, ss.....Smithfield
Norman, Alta, ho-Sp.....Logan
Norr, Hazel, c-1.....Logan
Norr, Lorenzo, ma-1.....Logan
Nowalki, Joseph D., c-1.....Mackay, Ida.
Nowalki, Fred, a-O.....Salt Lake City
Nuhn, George C., a-w.....Avon
Nuttall, Leonard G., ae-So.....Blackfoot, Ida.
Obray, Georgia, ss.....Paradise
Oman, Mrs. A. G., hk.....Richfield
Odell, Joseph, a-2.....Logan
Ogden, Charles, r.....Richfield
Ogden, Mrs. Dora, hk.....Richfield
Ogden, Mrs. Ella P., hk.....Richfield
Ogden, F. M., r.....Richfield
Ogden, George, r.....Richfield
Ogden, George W., r.....Richfield
Ogden, Mrs. Georgie, hk.....Richfield
Ogden, Heber, r.....Richfield
Ogden, Mrs. Hannah M., hk.....Richfield
Ogden, J. F., a-S.....Richfield
Ogden, J. H., r.....Richfield
Ogden, J. L., r.....Richfield
Ogden, J. T., r.....Richfield
Ogden, James, r.....Richfield
Ogden, Joseph, r.....Richfield
Ogden, Laura, ho-Sp.....Richfield
Ogden, Lester, r.....Richfield

Ogden, Leonard, r.....Richfield
Ogden, Mrs. Leonard, hk.....Richfield
Ogden, Louise, ho-Sp.....Pleasant Grove
Ogden, Mrs. Maggie, hk.....Richfield
Ogden, Mrs. Mary, hk.....Richfield
Ogden, Miles, r.....Richfield
Ogden, Walter, r.....Richfield
Ogden, William, r.....Richfield
Ogden, Will, r.....Richfield
Oldham, Delia, ss.....Paradise
Oldham, Mabel, ss.....Paradise
Olsen, Andrew F., a-1.....Ephriam
Olsen, C. L., r.....Logan
Olsen, Carl, Sr., r.....Richfield
Olsen, Daniel F., a-So.....Murray
Olsen, D. L., r.....Inverury
Olsen, Eliza L., ho-1.....North Logan
Olsen, Esther, ho-F.....Murray
Olsen, Frank, r.....Koosharem
Olsen, Hilda, ss.....Hyrum
Olsen, J. F., r.....Ephriam
Olsen, J. H., r.....Ephriam
Olsen, Joseph W., a-S.....Sandy
Olsen, Lehi, r.....Logan
Olsen, Peter E., r.....Koosharem
Olsen, W. B., r.....Inverury
Ostler, Ruby L., ho-So.....Salt Lake
Ostler, Lowell, c-F.....Nephi
Owen, Cyril B., a-F.....Wellsville
Owen, Stephen L., a-So.....Willard
Osterloh, W. D., c-1.....Lehi
Oleson, Walter, r.....Inverury
Ogelvie, C. E., r.....Richfield
Ogelvie, William, r.....Richfield
Olliliamen, K. V., a-Sp.....Logan
Olson, Mrs. Alma, hk.....Logan
Olson, Carl A., ma-1.....Vernon
Olson, Carl C., c-1.....Rigby, Ida.
Olson, Edith A., ho-1.....Vernon
Olson, Evalyn, ss.....Brigham City
Olson, Heber L., a-2.....Logan
Olson, Leo, a-w.....Lewiston
Olson, Nels Ira, a-2.....Ephriam
Olson, Orson, a-w.....Monroe
Olson, Pearl, c-3.....Logan
Osmond, Charles, g-F.....Logan
Osmond, Ruby H., ho-1.....Logan
Oldroyd, Loren T., c-F.....Richfield
Oldroyd, Mary, hk.....Logan
Orrock, Eugene, r.....Richfield
Orrock, J. H., r.....Richfield
Orrock, Joseph, r.....Richfield
Orrock, W. C. B., r.....Richfield

Orrock, Mrs. W. C. B., hk.....Richfield
Olund, Ernest, c-Sp.....Park City
Ormond, Henry, c-1.....North Logan
Ostlund, Jeanette, ss.....Logan
Ostlund, Lillian, m.....Logan
Outzen, Parley, r.....Richfield
Oyler, Charles, ma-1.....Garland
Oyler, Joseph, a-F.....Garland
Oyler, Leo, ma-3.....Garland
Pack, Herbert J., g-S.....Woods Cross
Packard, David R., a-So.....Springville
Packard, Othie, g-Sp.....Logan
Palfreyman, Jennie, ho-So.....Springville
Pain, Mrs. Stella, hk.....Aurora
Palmer, E. W., r.....North Logan
Palmer, Valentine W., c-2.....Logan
Park, Libbie, ho-F.....Logan
Parke, W. C., r.....Riverside
Parker, Mrs. A. M., hk.....Richfield
Parker, Albert, r.....Redmond
Parker, Bryan, r.....Richfield
Parker, Mrs. Ireta, hk.....Joseph
Parker, J. A., r.....Joseph
Parker, J. F., r.....Joseph
Parker, Lyman, r.....Redmond
Parks, Mrs. Clara, hk.....Richfield
Parkinson, E. Benson, c-S.....Logan
Parkinson, Karnay B., ho-1.....Logan
Parsons, A. S., r.....Koorsharem
Partington, Alma, r.....Logan
Parrish, Afton Leone, ho-J.....Centerville
Parry, Gronway R., a-J.....Salt Lake
Parry, G. R., r.....Elsinore
Peterson, Edith, ho-F.....Logan
Peterson, Edna L., c-Sp.....Smithfield
Peterson, George, r.....Joseph
Peterson, Mrs. H. H., hk.....Richfield
Peterson, Mrs. Hannah, hk.....Logan
Peterson, H. C., r.....Logan
Peterson, Harold, g-3.....Logan
Peterson, Heber, r.....Richfield
Peterson, Henry, r.....Glenwood
Peterson, Herman, r.....Richfield
Peterson, Hugh C., g-F.....Logan
Peterson, James, r.....Joseph
Peterson, James M., r.....Richfield
Peterson, Mrs. J. M., hk.....Richfield
Peterson, John F., c-w.....Moab
Peterson, John H., a-S.....Smithfield
Peterson, Joseph, r.....Richfield
Peterson, Joseph F., r.....Redmond
Peterson, J. C., r.....Logan
Peterson, Mrs. J. O., hk.....Logan

Peterson, La Voyle, ho-2.....Logan
Peterson, Lena, hk.....Richfield
Peterson, Mrs. Lovina, hk.....Logan
Peterson, Leslie, r.....Logan
Peterson, L. P., r.....Logan
Peterson, Lillie, cr.....Smithfield
Peterson, Lorenzo, r.....Hyde Park
Peterson, Mrs. Mary, hk.....Richfield
Peterson, Martin Benjamin, a-So.....Riverton
Peterson, Mattie O., m.....Logan
Peterson, Merrill, ss.....Brigham
Peterson, M., hk.....Logan
Peterson, N. P., r.....Richfield
Peterson, Nettie, g-J.....Logan
Peterson, Othelia, g-Sp.....Logan
Peterson, P. C. B., r.....Richfield
Peterson, Peter, r.....Mendon
Peterson, Reginald, r.....Richfield
Peterson, Sarah, hk.....Richfield
Peterson, Mrs. T., hk.....Logan
Peterson, Vernon R., a-2.....Logan
Peterson, Verne, a-S.....Richfield
Peterson, Violet, cr.....Smithfield
Peterson, Mrs. W., hk.....Logan
Peterson, W. L., ss.....Mendon
Peterson, W. O., g-1.....Logan
Peterson, Anthon O., a-2.....Logan
Peterson, Brigham, r.....Glenwood
Peterson, Caroline, ho-F.....Logan
Peterson, Christian, r.....Richfield
Peterson, C. E., r.....Mink Creek
Peterson, Dan, r.....Richfield
Peterson, Donna M., ho-1.....North Logan
Peterson, E. A., r.....River Heights
Peterson, Elizabeth, ss.....Logan
Peterson, Elmer, r.....Preston
Peterson, Esther, ss.....Hyrum
Peterson, Hermense, ss.....Provo
Peterson, Lillie, ss.....Smithfield
Pett, Ella, ss.....Brigham
Preston, Clayton, g-2.....Logan
Picot, Alfred G., c-F.....Logan
Price, Ezra Robert, a-J.....Salt Lake
Price, May, ho-3.....Wellsville
Price, Robert L., a-J.....Wellsville
Price, Sterling E., a-S.....Provo
Parry, Gwen, ss.....Salt Lake
Parry, Florence ss.....Salt Lake
Parry, J. M., r.....Elsinore
Parry, Vaughan, ss.....Logan
Paulsen, Christian, r.....Richfield
Paulsen, Paul, r.....Richfield
Payne, C. B., r.....Glenwood

Payne, J. H., r.....Glenwood
Prather, Carl, ma-4.....Logan
Peacock, Byron C., ma-W.....Emery
Peacock, Ella, ho-W.....Emery
Peart, John K., a-J.....Farmington
Pearson, Essie N.,C-1.....Logan
Pence, Thurston, g-3.....Mountain Home Idaho
Pendleton, J. H., r.....Fort Wayne
Pendleton, J. H. Mrs. hk.....Glenwood
Perkes, J. W., r.....Hyde Park
Perkes, R. A., r.....Hyde Park
Perkins, Richard L., ma-2.....Monticello
Peary, Foster, ae-So.....Logan
Peary, Stephen C., a-So.....Logan
Peters, Iretta, ss.....Brigham City
Peters, Margaret, ss.....Brigham
Peters, Laura E., ho-So.....Salt Lake City
Pixton, Grace, ss.....Taylorsville
Polson, James, r.....Pocatello, Idaho
Pond, B., r.....Lewiston
Pond, Charles, r.....Lewiston
Pond, Charles Mrs. hk.....Logan
Horace, R., ae-F.....Lewiston
Pond, Irene, g-Sp.....Lewiston
Pond, Mary, ho-3.....Lewiston
Pond, Stillman, a-2.....Lewiston
Pond, William Leone, a-J.....Lewiston
Porter, B. P., r.....Franklin, Idaho
Porter, Ina, ho-2.....Logan
Porter, Thomas, ss.....Logan
Potter, Olive Mrs. hk.....Richfield
Potts, William Earl, a-1.....Silver City
Poulsen, F. N., ss.....Salt Lake
Poulson, Arthur, r.....Richfield
Poulson, Celia Mrs. hk.....Richfield
Poulson, Dora Mrs. hk.....Richfield
Poulson, Ernest, r.....Richfield
Poulson, F. N., g-J.....Salt Lake City
Poulson, Melton, r.....Richfield
Poulson, Melton Mrs. hk.....Richfield
Poulter, Carl, r.....Logan
Poulton, Ralph, r.....Provo
Powell, C. W., r.....Glenwood
Powell, Hartlett, a-Sp.....Salt Lake City
Powell, Ray H.,r.....Glenwood
Prosser, W. D., g.....Salt Lake
Prunty, Russell C., ma-W.....Charleston, Nevada
Pugmire, Elizabeth, ss.....St. Charles, Idaho
Quayle, William L., g-G.....Logan
Quinney, Joseph Mrs. hk.....Logan
Ralph, E. T., ss.....Logan
Ralph, L. T., c-2.....Logan
Ramsay, James, r.....Richfield

Raymond, Loila, ss.....Smithfield
Rasmussen, A. P., r.....Richfield
Rasmussen, George, r.....Richfield
Rasmussen, James, ma-1.....Roosevelt
Rasmussen, Joseph, r.....Richfield
Rasmussen, Sarah, hk.....Richfield
Rauzenberger, John, r.....Providence
Rawlings, W. S., g-Sp.....Salt Lake City
Raymond, Moselle, c-4.....Smithfield
Reader, J. F., r.....Hyde Park
Redd, Alta, ho-2.....Monticello
Redd, Hortense, ho-1.....Monticello
Redd, John W., a-2.....Monticello
Redd, Margaret, g-So.....Monticello
Reed, Harry S., a-S.....Ogden
Rees, Mary K., ho-Sp.....Logan
Reese, A. J., r.....Benson
Reese, A. V., r.....Benson
Reese, Charles, r.....Benson
Reese, Charles W., a-S.....Coalville
Reese, James, r.....Smithfield
Reese, John K., a-1.....Kaysville
Reese, Naomi, g-Sp.....Logan
Reese, R. O., r.....Benson
Reese, Sarah, ho-2.....Benson
Reese, W. G., r.....King
Reese, W. Grover, a-3.....King
Reid, Edward, ae-So.....Logan
Reid, Sidney, ma-w.....Garfield
Reilly, Evelyn, g-Sp.....Salt Lake City
Reynolds, D. J., r.....Malad, Ida.
Reynolds, Katie, ho-Sp.....Malad, Ida.
Rich, Abel S., a-S.....Brigham City
Rich, Juanita, ss.....Blackfoot, Ida.
Rich, George Q., c-1.....Logan
Rich, W. L., r.....West Jordan
Richards, Alta, c-3.....Logan
Richards, Annie D., ho-J.....Salt Lake City
Richards, Burt L., g-S.....Logan
Richards, C. P., r.....Logan
Richards, Carrie, g-F.....Logan
Richards, E. F., r.....Farmington
Richards, H. L., r.....Brigham City
Richins, John, r.....Venice
Richardson, Ivy, g-J.....Logan
Richardson, Jacob Z., g-F.....Logan
Richardson, Lester A., a-S.....Ogden
Rick, P. M., hk.....Elsinore
Rickenbaugh, Jesse, r.....Glenwood
Rigley, Parley, c-3.....Newton
Rigley, Hyrum Y., r.....Providence
Rigley, Rulon R., a-1.....Newton
Riser, S. T., r.....Lewiston

Riter, Levi R., a-1.....Logan
Riter, S. W., c-2.....North Logan
Ritter, Maggie, hk.....Logan
Rhodes, Vernon M., a-2.....Garland
Roberts, Artie A., ma-1.....Kanosh
Roberts, Herbert, r.....Annabella
Roberts, K. E., r.....Annabella
Roberts, Rose, hk.....Richfield
Roberts, Walter, r.....Monroe
Robertson, Gerald G., ma-2.....Blackfoot, Ida.
Robinson, Julian R., a-2.....Richmond
Rogers, Ruth B., ho-1.....Logan
Rollins, Clem R., r.....Lewiston
Rollins, William, r.....Cardston, Canada
Romney, George J., r.....Smithfield
Rose, Eva E., ho-1.....Logan
Rose, G. B., ss.....Logan
Rose, Kate M., ho-2.....Logan
Rose, Raymond D., c-2.....North Logan
Roskelley, J., a-3.....Smithfield
Roskelley, Maude H., cr.....Smithfield
Roskelley, Richard B., c-3.....Smithfield
Rosenbaum, Alicia, c-Sp.....Brigham City
Rosengreen, E. J., ho-1.....Logan
Rosengreen, Hannah, hk.....Logan
Rosengreen, N., hk.....Logan
Rosengreen, Ruth, ho-2.....Logan
Ross, John H., r.....Richfield
Ross, Marie, ss.....Salt Lake
Ross, Margaret, hk.....Richfield
Ross, R. F., r.....Joseph
Rowe, Clara S., ho-2.....Logan
Rowe, Ross T., a-So.....Spanish Fork
Rowland, J. W., r.....Logan
Rund, Mrs. George, hk.....Logan
Salisbury, J. H., r.....Logan
Salisbury, M. J., hk.....Logan
Salisbury, Wm., r.....Richfield
Salmon, Ethel, ho-w.....Coalville
Sampson, J. M., a-2.....Mammoth
Sampson, Town, r.....Glenwood
Sanburg, Brigham, r.....Richfield
Sandall, J. H., r.....Elsinore
Savage, A. A., r.....Hyrum
Saxer, Lucia, g-Sp.....Logan
Sharp, Adelina Patti, c-S.....Logan
Sharp, David Jr., a-S.....Logan
Sharp, Emma, ss.....Vernon
Sharp, John A., a-J.....Vernon
Sharp, James, r.....Deweyville
Shaw, Mrs. Carrie, hk.....Richfield
Shaw, Mary, ho-So.....Logan
Shaw, Minnie, ss.....Paradise

Shaw, Harry, a-2.....Paradise
Shaw, M. H., r.....Richmond
Shaw, Oril, ss.....Ogden
Shaw, Samuel Albert, a-w.....Ogden
Shaw, Mrs. W. D., hk.....Logan
Schaub, Mrs. K. C., hk.....Logan
Schaub, Lyman, r.....Providence
Schaub, Margaret A., ho-2.....Logan
Smart, Georgia, ho-1.....Logan
Smart, Thomas L., a-2.....Roosevelt
Spande, Mabel, ho-3.....Logan
Spande, Sybil, ho-1.....Logan
Staker, J. B., r.....Annabella
Staker, Mrs. J. B., hk.....Annabella
Staker, Mrs. Mary, hk.....Annabella
Standar, Alvin, r.....Bear River City
Standley, Lucy, ss.....Logan
Standley, Newell, r.....Logan
Staples, E. W., r.....Inverury
Staples, J. L., r.....Elsinore
Staples, J. H., r.....Inverury
Starland, Miss L., hk.....Logan
Starley, Claude, a-3.....Fillmore
Stratford, Lillie, ss.....Brigham City
Straw, Alta, ss.....Springville
Seamons, J. W., cr.....Hyde Park
Seegmiller, Mrs. C., hk.....Richfield
Seegmiller, Clariton, r.....Richfield
Seegmiller, Irene, hk.....Richfield
Seegmiller, Junius, r.....Richfield
Seegmiller, May S., hk.....Richfield
Seegmiller, Mattie, hk.....Richfield
Seegmiller, R. H., r.....Richfield
Seegmiller, Mrs. Serinda, hk.....Richfield
Seegmiller, Mrs. W. H., hk.....Richfield
Seegmiller, W. W., r.....Kanab
Seegmiller, W. H., r.....Richfield
Seegmiller, W. A., r.....Richfield
Sellers, A. M., r.....Richfield
Sellers, Joseph, r.....Richfield
Sells, Albert Edward, a-So.....Nephi
Sessions, J. W., ss.....Marion, Ida.
Sevy, Blaine, a-1.....Panguitch
Sevy, Mrs. R. W., hk.....Richfield
Sevy, Mrs. J. L., hk.....Richfield
Sevy, J. L., r.....Richfield
Sevy, R. W., r.....Richfield
Sevy, Thomas, r.....Panguitch
Sewage, A. A., r.....Hyrum
Schweitzer, George L., a-S.....Bingham
Shelley, Percy Norman, a-Sp.....Salt Lake
Shepard, Leroy, a-w.....Richmond
Shepherd, Nathaniel T., g-Sp.....Salt Lake

Sherpy, Maud, g-Sp.....Logan
Sherrick, H. E., r.....Delta
Spencer, Charles R., r.....Logan
Spencer, Frank, g-S.....Salt Lake
Spencer, George B., ma-1.....Monticello
Spencer, Mrs. Ruth, hk.....Aurora
Stedman, D. J., a-Sp.....Logan
Stearns, H. J., g-Sp.....Salt Lake
Steed, Ezra, r.....Clearfield
Steed, James J., r.....Farmington
Steiner, J. J., r.....Richfield
Stephensen, Willard E., r.....Inverury
Stephens, Edwin W., a-S.....Salt Lake
Stevens, L. A., ss.....Logan
Stevensen, Mrs. Rachel, hk.....Richfield
Stewart, A. J., c-2.....Logan
Stewart, Ella, ho-Sp.....Ogden
Stewart, Eugene F., a-J.....Logan
Stewart, Mrs. J. E., hk.....Logan
Stewart, George, a-S.....Tooele
Stewart, George, r.....Logan
Stewart, John, r.....Venice
Stewart, Mrs. Robert, m.....Logan
Stewart, Thelma M., ho-1.....Logan
Stewart, Walter, c-2.....Logan
Swensen, Olie, r.....Logan
Sylvester, Jane, hk.....Richfield
Shipley, Elizabeth, ss.....Paradise
Shipley, H. G., r.....Paradise
Skinner, Joseph F., a-S.....Safford, Ariz.
Smith, Alonzo, r.....Logan
Smith, Arthur M., a-1.....Providence
Smith, Clifford F., c-3.....Smithfield
Smith, Marion, ho-3.....Logan
Smith, Mary Ross, c-1.....Logan
Smith, Olena W., c-1.....Logan
Smith, Priday, c-1.....Logan
Smith, Richard M., r.....Logan
Smith, Ray Fred, a-w.....Murray
Smith, Mrs. R. M., hk.....Logan
Smith, Ralph, g-1.....Logan
Smith, Raymond, a-J.....Logan
Smith, Rachel Irene, ho-1.....Logan
Smith, Vega, ho-2.....Providence
Smith, David W., a-F.....Salt Lake
Smith, Donald E., m.....Logan
Smith, Ella, hk.....Logan
Smith, Edwin Stratford, g-F.....Logan
Smith, Mrs. Effie A., ho-F.....Logan
Smith, Frank S., cr.....Vernal
Smith, Fred K., r.....Daniels, Ida.
Smith, Gilbert R., g-1.....Salt Lake
Smith, Heber Lawrence, a-F.....Logan

Smith, Mrs. J. P., hk.....Logan
Smith, J. O., r.....East Milford
Smith, Mrs. L. M., hk.....Logan
Smith, Lewis Calder, a-So.....Logan
Smith, Leslie Albert, g-S.....Logan
Smith, Leona, ho-Sp.....Logan
Smith, LeGrand, c-3.....Preston, Ida.
Stines, John Ernest, g-2.....Logan
Stillman, C. N., r.....Richfield
Sohm, Samuel L., a-1.....Providence
Sorensen, Alexander, r.....Glenwood
Sorensen, Andrew, r.....Richfield
Sorensen, Elmer, r.....Glenwood
Sorensen, Mrs. E. B., hk.....Logan
Sorensen, C. J., a-J.....Hyrum
Sorensen, John P., g-Sp.....Logan
Sorensen, Jens, r.....Inverury
Sorensen, James, r.....Inverury
Sorensen, Mrs. L. W., hk.....Logan
Sorensen, Louis, r.....Inverury
Sorensen, O. V., r.....Glenwood
Sorensen, William, r.....Glenwood
Scott, Ernest H., ss.....Salt Lake
Scoroup, J. H., r.....Salina
Scholes, Caroline, ss.....Logan
Schock, W. H., r.....Richfield
Shores, George, a-w.....Salt Lake
Showell, Edith May, ho-1.....Logan
Showell, Madelyn V., ho-1.....Logan
Showell, T. W., ma-2.....Showell (Box Elder Co.)
Sjostrom, Joseph E., c-3.....Logan
Sjostrom, Oscar, r.....River Heights
Skougaard, Mrs. Charles, hk.....Richfield
Skougaard, James, r.....Richfield
Sloan, W. R., hk.....Logan
Snow, Beatrice, ss.....Colonia Juarez, Mexico
Snow, Joseph Homer, g-S.....Kingston
Snow, Emma, ss.....Teasdale
Snow, Willard, r.....Redmond
Stoddard, Lois, ss.....Colorado Springs, Colo.
Summers, Edith, ho-1.....Avon
Sutton, Ralph V., ma-1.....Paris, Ida.
Shurtleff, Alta E., ho-Sp.....Logan
Shurtleff, Lorenzo, ae-F.....Logan
Shurtleff, Wilford, c-3.....Ogden
Smurthwaite, Florence, g-Sp.....Logan
Smurthwaite, Mrs. F., hk.....Logan
Squires, G. W., a-Sp.....Logan
Stucki, Alfred, a-S.....Santa Clara
Stucki, Herman W., a-S.....Santa Clara
Tanner, Leroy, a-So.....Tooele
Tanner, Mary, g-Sp.....Providence
Tarbet, Agnes, ho-So.....Logan

Tarbet, Florence, ss.....Logan
Tarbet, N. K., r.....Logan
Tate, Edward, r.....Marysvale
Taylor, Asael J., a-So.....Willard
Taylor, D. M., ma-Sp.....Payson
Taylor, Mrs. Fred G., hk.....Logan
Taylor, Leonard S., ae-F.....Baker City, Ore.
Taylor, Mrs. Robert, hk.....Richfield
Thain, Aldyth, ho-3.....Logan
Thain, George W., ma-1.....Logan
Thain, Mrs. M. A., hk.....Logan
Thain, Wilber E., c-J.....Logan
Thalman, John, r.....Vermilion
Thatcher, Franklyn D., a-So.....Logan
Thatcher, Hannah, ho-1.....Thatcher, Ida.
Thatcher, Helen C., c-1.....Logan
Thatcher, Kingsley, a-1.....Logan
Thatcher, Lettie, ho-Sp.....Logan
Thatcher, N. D., r.....Thatcher, Ida.
Thatcher, Nathan D. J., a-F.....Logan
Thatcher, Patience, ho-1.....Logan
Thatcher, S. B., hk.....Logan
Thairer, Alma, r.....Logan
Tehnohoff, Charlotte, ss.....Ogden
Telford, S. R., r.....Richmond
Terry, W. C., r.....Richfield
Timmins, Annie B., ho-3.....Smithfield
Timmins, W. Mont, a-3.....Smithfield
Tolman, A., r.....Honeyville
Tompson, Earl, r.....Richfield
Tonks, George C., ma-2.....Morgan
Toombs, J. C., c-2.....Logan
Toombs, Malvern H., a-2.....Logan
Torrie, Albert, a-w.....Woods Cross
Tholman, Mrs. Elizabeth, hk.....Vermilion
Thomas, Alvin J., c-1.....Portage
Thomas, Carrie S., c-2.....Logan
Thomas, James M., r.....Ogden
Thomas, Preston, a-J.....Plain City
Thomas, Winifred W., c-1.....Logan
Thomson, J. R., r.....Richmond
Thomason, Olga, m.....Logan
Thoresen, Eliza, c-3.....Logan
Thoreson, Hyrum, r.....Annabella
Thornley, R. T., r.....Smithfield
Thornley, William J., a-w.....Kaysville
Thornock, Luella, ss.....Bloomington, Ida.
Thorpe, Verne, c-1.....Cardston, Canada
Trotman, Harold A. C., g-1.....Logan
Tuft, Hans, r.....Monroe
Tunks, S. V., c-S.....Logan
Turner, A. J., r.....Logan
Tuttle, Edwin E., a-So.....Manti

Tuttle, Leonard, r.....Glenwood
Tuttle, Lloyd, a-So.....Manti
Thurber, A. D., r.....Richfield
Thurber, Oland, r.....Richfield
Thurston, Clarence, ma-2.....Morgan
Thurston, Elroy, r.....Annabella
Thurston, H., r.....Annabella
Thurston, Mrs. S., hk.....Logan
Thurston, S. B., r.....Hyde Park
Thurston, Stephen, r.....Hyde Park
Twissell, William H., r.....Logan
Udy, Horace, a-w.....Riverside
Ure, Leonore, ho-S.....Salt Lake City
Urie, Elizabeth, cr.....Tooele
Wadley, Joseph D., c-3.....Lindon
Wadsworth, Fred, r.....Logan
Wahlen, Julius O., ae-2.....Logan
Walker, Edith, hk.....Richfield
Walker, John Basil, a-So.....Sandy
Walker, W. H., r.....Logan
Wall, Ellen, hk.....Logan
Wall, Frank r.....Venice
Wallace, Lucille, hk.....Logan
Walsh, Bertie, ss.....Farmington
Walsh, Edith, ho-So.....Farmington
Walton, E. D., hk.....Logan
Walton, Matilda, ho-Sp.....Garfield
Wangsgard, Ernest, g-Sp.....Logan
Wangsgard, Ione M., g-S.....Logan
Wangsgard, Louis B., a-S.....Huntsville
Warnick, Adolphus P., a-So.....Pleasant Grove
Warnick, Effie, ho-So.....Pleasant Grove
Washburn, Chlo, hk.....Monroe
Watkin, Clifford, ss.....Mendon
Watkins, Aurilla, ho-Sp.....Brigham City
Whatcott, W. H., cr.....Tremonton
Webb, Effie, ho-F.....St. George
Webb, Flossie M., ho-Sp.....Richmond
Webb, H. C., r.....Richmond
Webb, Heber J., a-G.....Logan
Webster, Mozell, c-2.....Franklin, Ida.
Weeks, Emma, ss.....Pleasant Grove
Weiler, Vera, ho-S.....Salt Lake City
Welch, Mrs. Effie, ho-Sp.....Paradise
Wells, Arthur T., a-1.....Salt Lake City
Welsh, John, r.....Paradise
Welsh, Joseph P., a-S.....Paradise
Welsh, Mrs. Joseph, hk.....Logan
West, Charles H., ae-S.....Ogden
West, Pearl Edith, ho-1.....Hoytsville
Westover, Albert, c-2.....Trenton
Weston, Samuel, r.....Logan
Wheadon, Teresa M., ho-1.....Morgan

Wheatley, Seth, r.....Honeyville
Widmer, David, r.....Logan
Widmer, Samuel E., ma-w.....Logan
Wilcox, O. L., r.....Garland
Willing, J. H., r.....Riverside
Willis, Jesse, r.....Joseph
Willis, S. A., r.....Lehi
Willis, Mrs. S. A., hk.....Lehi
Willmore, Benjamin F., c-1.....Logan
Williams, Hugh, a-So.....Salt Lake City
Williams, Orson S., a-w.....Mona
Williams, Robert H., ma-2.....Clyde, Ida.
Williams, William W., r.....Peary, Ida.
Wilson, Charles, r.....Richfield
Wilson, Jessie, ss.....Hyrum
Wilson, John B., r.....Richfield
Wilson, Leroy A., a-So.....Sandy
Wilson, Mrs. N., hk.....Logan
Wilson, Vanes T., ma-1.....River Heights
Wilson, Walter R., cr.....Murray
Winters, Nina, ss.....Ogden
White, Hattie, hk.....Logan
White, Hettie, ss.....Beaver
White, John E., a-S.....American Fork
Whitesides, Edwina, ho-So.....Layton
Whitesides, M. W., r.....Layton
Whitear, Charles B., ma-2.....Peterson
Whitear, Frank Leslie, a-1.....Peterson
Whittier, Leone M., ho-2.....Morgan
Whitney, J. F., r.....Logan
Whittle, J. A., r.....Richmond
Wright, Marshall S., ma-w.....Salmon, Ida.
Woodland, Noah, ae-F.....Richmond
Woodman, Mrs. A., hk.....Logan
Woodruff, Mrs. H. C., ss.....Farmington
Woodside, W. Alton, g-3.....Logan
Woodside, Charles S., c-So.....Logan
Woodside, Jean R., ho-J.....Logan
Woodside, Thomas C., c-1.....Logan
Woodward, Garnet, r.....Franklin, Ida.
Woolf, Eva, c-So.....Logan
Woolf, Mrs. Grace, hk.....Logan
Woolf, John A., r.....Logan
Woolf, Ruby, g-Sp.....Logan
Woolford, T. A., r.....Smithfield
Woolley, John F., a-3.....Grantsville
Woolley, Moroni R., g-3.....Grantsville
Worley, Margaret, g-2.....Logan
Worley, Roy, r.....Downey, Ida.
Worley, William, r.....Logan
Worley, Mrs. William, hk.....Logan
Worlton, J. F., g-Sp.....Salt Lake City
Yates, Alice, ss.....Brigham

Young, A. G., r.....Richfield
Young, Mrs. Archie, hk.....Richfield
Young, Ernest T., g-Sp.....Logan
Young F., hk.....Kingston
Young, Florence, g-Sp.....Providence
Young, Mary S., hk.....Richfield
Young, R. D., r.....Richfield
Young, T. F., r.....Kingston
Yonker, D. I., r.....North Logan
Yoshoka, K. T., r.....Whitney, Ida.
Younker, Stanley W., a-2.....North Logan
Zollinger, LeVerne, c-Sp.....Providence
Zollinger, W. R., r.....Providence
Zundell, Mrs. George, hk.....Logan

SUMMARY BY SCHOOLS.

	Agr.	Agr. Engnr.	Comm.	Gen'l Science	Home Econom.	Mech. Arts	Specials (Mu-ic)	Total	Grand Total
COLLEGE COURSE.									
Graduates	4	...	...	3	...	1	...	8	....
Seniors	49	1	10	35	15	...	...	110	....
Juniors	30	5	10	10	13	...	...	68	....
Sophomores	38	8	8	7	21	...	...	82	....
Freshmen	20	9	17	18	14	...	...	78	....
Specials	12	1	5	38	32	1	21	110	....
Total	153	24	50	111	95	2	21	...	456
HIGH SCHOOL.									
Fourth Year	...	...	4	...	1	2	...	7	....
Third Year	29	3	24	14	24	5	...	99	....
Second Year	44	1	28	5	24	16	...	118	....
First Year	42	1	46	19	40	34	...	182	....
Optionals	1	...	2	1	...	...	...	4	....
Winter Course	38	...	8	...	5	27	...	78	....
Total	154	5	112	39	94	84	...	...	488

Total			944
Summer School Students 1912			224
Correspondence Students			57
Roundup (Logan)		305	
" (Richfield		367—	672
Housekeepers' Conference (Logan)		117	
" " (Richfield)		177—	294
			2,191
Less names repeated			51
Total Registration			2,140

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