The appearance of injurious insects in the present month is very much in advance of many previous months for May. One of this number is the Hessian fly on wheat. Last autumn there were no more indications of this insect than a few years ago that the last season very little wheat was injured by the fly; this year Prof. Smith, who has visited many fields in this vicinity, estimates a probable loss of between a quarter and a third of the crop by this insect. The difference in climatic conditions between the two seasons must account for this largely. The present season with its even temperature and absence of chilling storms stands in strong contrast with the season before, which was quite the opposite.

The fly is new in the flora or "flux stage" and will be found nesting inside the lower leaf sheaths. At harvest time the most of these pupae will have been destroyed, and the adult fly will be on the wing. Farmers would do well to post-harvest inspection of the wheat that are being grown on the farm, to see if certain varieties are more exposed to attack from the fly than others. His report on this examination is that all the wheat grown in Michigan is subject to attack.

Mr. Crozier has examined the vegetable production of the state and from the data of his examination and the fact that the state has but little pine left and the hard wood, or maple, is near enough exempt to warrant any conclusions in its favor.

Prospects at present appear favorable for an attack on wheat again next fall, although even this prediction is in a measure like forecasting the weather. liable to change. The inference is that every variety of wheat that is being grown in the state is subject to attack.

WHAT NOW SHALL BE DONE WITH OUR FORESTS?

ARBOR-DAY ADDRESS BY DR. W. W. BEALL.

The celebration of Arbor Day did not originate in a state naturally covered with a fine forest, but in a province where the American Indians, in the early days of the four years ago, through the efforts of Hon. J. Stirling Morton, now Secretary of Agriculture; and on the Arbor Day of the state named over 12,000,000 trees were planted.

In the past, two or three or more Arbor Days have been observed at the University of Michigan. As the climate is so mild in the middle of the great lakes; and it is natural for trees to grow in such countries. We have just heard of the magnificent virgin forests of the state—trees were so abundant that they were a hindrance to the early settlers. Until very recently, it was next to impossible to find many persons who were willing to admit that Michigan pine was nearly gone.

We have also heard a candid statement of the present condition of our forests; to the effect that the state has but little pine left and the hard wood, or maple, is near enough exempt to warrant any conclusions in its favor.

Our forests have been treated much as a mine is treated, viz., cut over with the view of exhaustion and extermination.

For the present we have been forced to depend upon the natural growth of trees for our wood. In the same year the state of Minnesota estimated its loss by forest fires at $8,000,000, and suffering people were assisted to the extent of $2,500,000, making $7,500,000. In the same year the state of Minnesota estimated its loss by forest fires at not less than $12,000,000. In both these states it is safe to double the amounts named as nearly the actual losses. The destruction of valuable trees with a great prospective value is beyond estimate.

The people of Wisconsin and Minnesota have suffered long enough these fearful blights by forest fires, and we are bound to argue the necessity of carrying out in that state prompt and energetic plans to obtain public funds to carry out provisions of wise legislation.

[To be continued]

THE EDUCATION OF THE INDIAN.

D. D. McARTHUR, ’94.

Never before in the history of mankind has a conquered people been fed, clothed, and educated by its conquerors.

The U. S. government, stirred to action by the importance of the subject, has taken steps for the education of the Indians. In 1865 it was increased to $10,000; in 1876 it was increased to $20,000. These agencies are controlled by agents appointed by the Federal government, and the appropriations are made by Congress. They are not subject to the control of the state governments.

Michigan is a state in which the conditions of the schools for the Indians are more favorable than in most other states.

The present condition of our forests, to the effect that the state has but little pine left and the hard wood, or maple, is near enough exempt to warrant any conclusions in its favor.

The appearance of injurious insects in the present state is very much in advance of many previous months for May. One of this number is the Hessian fly on wheat.
The M. A. C. Record.
PUBLISHED WEEKLY BY THE
MICHIGAN AGRICULTURAL COLLEGE
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ASSISTED BY THE STUDENTS.
ADDRESS ALL MAIL TO LOCK BOX NO. 93, LANSING, MICH.
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The M. A. C. Record.

May 26, 1896.

Chemical Physics.—Elastic for Agricultural seniors—Prof. Woodworth. Hours to be arranged.

Chemistry.—Sophomore mechanics, Metallurgy and Minerals. P. S. Kedzie. Assay room, Chemical laboratory at 1 p.m. Tuesday.

George Pashby. Meets three times per week in engineering class room at 8 a.m. on Tuesdays; class will be announced on the bulletin board in College hall.

HINTS TO CONTRIBUTORS.

Keep constantly in mind that three-fourths of our readers know little about the College. Items which may be considered self-evident to persons here are not always as desirable as something which the public can understand.

The briefest object in publishing The Record is to let the people of the state know of our existence, our excellent equipment, and our determination to benefit young farmers, mechanics and young women, by giving them a good training to fit them for success in life.

We have no trouble in filling our pages with such articles as are suitable, but we always want the very best that can be had.

We want frequent and short notes regarding the work of our students. It is not only the students who have been in attendance. We especially request short reminiscences from those who were students in the early days of the College, but we do not want any accounts of petty tricks, even those of a boyish nature.

SUMMER TERM ANNOUNCEMENTS.

Agriculture.—Agricultural seniors, Prof. Smith. Meet in lecture room of the Agricultural Laboratory at a time to be arranged.

Agricultural Engineering.—Elective for seniors, Professor Veldner. No text. Engineering classroom, College hall; hours and work arranged later.

Botany.—Agricultural freshmen, Instructor Longyear.

Meet in two sections, section A at 9 a.m. and section B at 10 a.m., on Wednesday, in room 8 on first floor of Botanical Laboratory.

Chemical.—Sophomore mechanics, Metallurgy and Minerals. P. S. Kedzie. Assay room, Chemical laboratory, Monday, Tuesday, Thursday, Friday, 9 a.m. and Monday, Tuesday, Thursday, 9:20 a.m. Class divided into two sections. See bulletin board in mechanical building for divisions. Text book, Woodworth.

Chemistry.—Sophomore agricultural chemistry, Chemical of the Carbon compounds. Three lectures per week by Dr. Kedzie, Monday, Wednesday, Friday, 11 to 12 a.m., Chemical lecture room. Text book. See bulletin board for divisions.

Descriptive Geometry.—Mechanical freshmen, Prof. Holdsworth. It is probable that there will be two divisions, one from 1 to 6 and one from 11 to 12. The divisions will be made by the mathematical department.

Differential Calculus.—Mechanical sophomores, Prof. Draper (Electrical) and Prof. Drael. Text, will be used as text book, but part of the subject will be given by lectures. Class will meet Tuesday at 8 a.m. on second floor, College hall, south side. No weekly examinations.

English Masterpieces.—Mechanical seniors, Prof. Edwards. Proctor's Introduction to English Literature. Class meets at 5 a.m. in class room A, College hall.

Elements of Machine Design.—Sophomore class, Instructor Westcott. Text book, Klein. Mondays and Wednesdays 9 to 11 a.m. Wednesdays 1 to 2 p.m. Drawing room.

Engineering Practice.—Senior class, Prof. Wellington. Theory and Practice of Steam Engines. Meet Thursday 10 to 11 a.m. Drawing room.

Examinations in Mathematics.—An opportunity to make up any lack of work and to take examinations for advanced standing. Meet Monday, May 25.

Field Day.—The attention of those training for field day is invited to the bulletin board. Several changes have been made in the list of those excused from drill.

French.—Mechanical juniors, Prof. Edwards. Van Derk's Introduction to the French Language. Class meets at 9 a.m. daily in class room A, College hall.

Freehand Drawing.—Prof. Holdsworth. There will be no regular class in this work, but the drawing room will be open during the forenoon, and instruction will be given in the two first articles of the class Descriptive Geometry. The work will be chiefly in charcoal from the east.

General Physics.—Freshman, Prof. Woodworth. Text, Atkins's Great Leavens and Light. Meet in Physical lecture room at 8 a.m., except Mondays.

German.—Mechanical juniors, Prof. Edwards. Harden's German Lessons. Class meets at 11 a.m. daily in class room A, second floor of College hall.

Grasses.—Agricultural juniors, Dr. Blais. Meet on second floor of the Botanical Laboratory in room 12 at 9 a.m., Tuesday.

Horticulture (Pomology).—Agricultural juniors, Professor Taft. Meet in the Horticultural Laboratory at 9 a.m. Tuesday, Thursday, pages 280-300 of chapter 28 of the text book.

Labor in the Horticultural Department will begin on Tuesday, May 26.

Sophomores will report for labor on the farm at the usual place at 1 p.m. on Thursday.

Freshmen who worked on the farm last term will report for work at the usual place at 1 p.m. on Tuesday.

Laboratory in Strength of Materials.—Junior class, Instructor Westcott. Two and a half hours per week. Meet every second week in engineering class room at 8 a.m. on Tuesdays. Students will be arranged in regard to hours with the instructor.

Mechanics of Engineering.—Mechanical juniors, Professor Veldner. A continuation of the same subject of last term. Class will meet at 9 a.m. daily, in engineering class room. For Tuesday prepare the first four articles in Rigid Dynamics.

Military Drill.—Lieut. Lewis. All students classified for drill will report for duty at 6:30 p.m. on Wednesday, May 26.

The band will meet regularly on the first four nights of the school week. Those interested will bear in mind that all excuses from drill are valid only for the term during which they are granted.

Milton.—Agricultural seniors, Prof. Edwards. Macmillan and Hili Books of Paradise Lost. Class meets at 4 p.m. on Tuesdays in class room A, College hall.

Original Design.—Senior class, Prof. Chamberlain. Meets Wednesday and Fridays, 10 to 12 a.m. Drawing room.

Physical Laboratory Work.—Mechanical freshmen. Meet in Physical Laboratory at 1 p.m., Wednesday.

Physics and Laboratory Practice.—Sophomore agricultural sophomores. Agricultural Sophomores will meet in the zoological lecture room at 9 a.m. Tuesday. Text book, Proctor and Tester's Physiology for Physicians.

Plane Geometry.—Agricultural freshmen, Instructor Pashby. Meet daily on third floor, College hall, Sec. A at 10 a.m.; Sec. B at 11 a.m. Tuesday's lesson, first three pages of Beam's and Smith's Geometry.


Rhetorical.—Sophomores, Instructor Crosby. Meet as per schedule in catalog in English classroom on second floor of College hall.

Sewing.—Agricultural sophomore, Miss Freyman, Text, Hanish's New Course in Embroidery. Meet in the Chapel on Thursday at hours indicated in the catalog.

Shakespeare.—Agricultural juniors, Prof. Edwards. Macmillan and Hili Books of Shakespeare's Plays. Class meets at 3:45 p.m. on Thursdays in class room A on second floor of College hall.

Shop Practice.—Sophomore class, Instructor Newell, Hoyt, and Theodore, shop, Foundary and Blacksmith shop.

Shop Practice.—Freshman class, Instructor Hott. Mondays, Tuesdays and Wednesdays 1 to 2 p.m. Pattern shop.

Sills.—Agricultural juniors, Instructor Cronier. Meet in the lecture room of the Agricultural Laboratory at 1 p.m. on Tuesday.

Solid Geometry.—Mechanical freshmen, Prof. Robertson. Text, Robertson's Solid. Meet on the first four articles in the geometry of the spring term for the same students. Text book, the same as before, Beam and Smith.


Strength of Materials.—Junior class, Instructor Westcott. Text book, Buch. Five days, 8 to 9 a.m. Recitation room.

Surveying.—Agricultural sophomores, Professor Vedder. Text, Hodgman's Surveying. Class will meet twice per week in engineering class room at 8 a.m. on Thursdays and Fridays.

Details as to days of meeting, field work, and lessons will be announced later.

Taetis Work.—Senior class, Prof. Weil. Ten hours per week. Students will be assigned engagements in regard to hours with the instructor.

Trees and Shrubs.—Agricultural sophomores, Instructor Wheeler. Meet on second floor of the Horticultural laboratory in room 12 at 9 a.m., Tuesday.

Trigonometry.—Agricultural sophomores, Instructor Pashby. Text, Jones's Drill Book. Meet three times per week in engineering class room, first floor, College hall, at 4:15 p.m. on Tuesdays.

Tuesdays and Wednesdays 1 to 2 p.m. (Except day in Testing Laboratory.) Morning class will be announced on the bulletin board in College hall.

NEWS FROM GRADUATES AND STUDENTS.

D. G. Smith, with '94 Portland, spent Sunday at the M. A. C. Library. The Rev. H. Van Wormer, '93, is assisting Thoro Smith in the analysis of fertilizers.

O. P. Gulley, '78, Davenport, Mich, is one of the superintendents of Wayne county.
George L. Chase, '89, leaves Detroit on a three months' vacation tour about June 1st.

Mr. Tallman, who has been playing second base, could not go with the team, so several of the players had to occupy his position on the steamer Northwest.

Mr. Tallman comes with the very best of recommendations; he is a graduate of the Agricultural College.

The M. A. C. Record has a weekly circulation of 3,000. For advertising rates address B. A. Bowditch or H. H. VanNorman, Agricultural College, Mich.
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...Department

Offers for sale the following head of live stock:

A Yearling Shorthorn Bull, out of Mysie 3rd, and by the prize winning Volunteer, 101205, a pure Cruikshank.

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For Catalog or particulars regarding the Summer School,

Address THE PRESIDENT.