

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

Vol. 9.

LANSING, MICHIGAN, TUESDAY, SEPT. 29, 1903.

No. 2

FOOTBALL.

The practice during the past week has been very encouraging. Coach Brewer is everywhere, giving pointers and inspiring the players.

A mass meeting was held in chapel on Friday noon. The attendance was fairly large, and the enthusiasm gradually increased during the meeting. Addresses were made by Pres. Snyder, Coach Brewer, Manager Haftenkamp, Messrs. Shedd, Peters, Miller, Taber and Decker. As a result there was a good increase in the practice that evening. About 40 were out on Saturday and a practice game was played. Some strong material is present among the squad and prospects for a good team are bright. Among those present the following names were secured: Gunnison, Small, Lampke, Ashley, Holdsworth, Welch, Waite, Johnson, Benton, Shaw, Towner, Cramer, Case, Tanner, F. J. Kratz, Bates, A. Kratz, Grover, Doty, McDermid, Peck, Stone, F. D. Smith, Stimpson, Burrell, Bartlett, Walker, Fisk, L. J. Smith, McKenna, Decker, Bell, Burrington, Larnard, Graham, Miller, Taber, Brunger. Seven or eight of these either played on last year's team, or belonged to the scrubs.

There seems to be some difficulty about securing enough time for practice. If we are to have a good team, this matter must be arranged. It seems that some transfers could be made. Some candidates have classes up to five o'clock. These could be put into another division and thus give more time for work. Students and faculty should cooperate in this matter and make amicable adjustments. College work cannot be supplanted with football, but both can exist and prosper where there is harmony and unity of purpose.

It is quite important that all candidates for the team be out every evening. If you are not selected for the first game, do not become discouraged. Put the welfare of the college above self. Changes will be made from time to time whenever some one shows form not possessed by a member of the team. New men should stick to it even if not selected at all. We expect to have a team next year and if a man makes the regular team the last two years of his college work he does well. *E sprit de corps* is the essential thing.

Mrs. May Ross Reynolds, of Chicago, visited M. A. C. this week.

The following Football schedule has been adopted for the coming season—

- Oct. 3, Notre Dame at Notre Dame.
- Oct. 10, Alma at Alma.
- Oct. 17, Kalamazoo at M. A. C.
- Oct. 24, U. of M., all Freshmen at M. A. C.
- Oct. 31, Detroit College at M. A. C.
- Nov. 7, Hillsdale at Hillsdale.
- Nov. 14, Albion at M. A. C.
- Nov. 21, Olivet at M. A. C.
- Nov. 26, Chicago College of Dental Surgery at M. A. C.

ABOUT THE LIBRARY.

Nearly 400 of the books belonging to the Abbot library were catalogued during the summer vacation, but had to be stored away for lack of room. 400 volumes are still unclassified. The lack of alcoves is very unfortunate. It simply indicates that in the near future M. A. C. must build a new library and in connection with it a large auditorium, for at the present time, the large majority of students couldn't attend chapel if they so desired.

Among the new books added to the library since Sept. 1st, the following are of perhaps the most interest:

- History of Electricity—Park.
- Design of Dynamos—Thompson.
- Mississippi and the Mississippians—Davis.
- History of the Art of Music—Matthews.
- History of the Presidency—Stanwood.
- Electrical Engineering—Slingo and Brooker.
- The Negro Question—Cable.
- The Silent South—Cable.
- Future of American Negro—Washington.
- Essays on the Civil War and Reconstruction—Dunning.
- History of Music—Rowbotham.
- Handbook of Birds of Western U. S.—Bailey.
- Sculptures of the Parthenon—Murray.
- History of Music—Langhaus.
- Masters in Art, three volumes.
- Memoirs and Letters of Chas. Sumner, four volumes.
- Destruction and Reconstruction—Taylor.
- American Food and Game Fishes—Jordan.
- American Federal State—Ashley.
- Musical Composers and Their Work—Tyler.
- Principles of Expression in Piano-forte Playing—Christiani.

CADETS, ATTENTION!

Military Department Mich. Agricultural College.

Cadets will be measured for uniforms commencing Tuesday, Sept. 29, at one o'clock in College Armory.

All cadets except those permanently excused from drill by certificate from Dr. Landon will be measured for uniforms.

All cadets will report for drill Tuesday at 5 o'clock.

Those having uniform will appear in full uniform.

By order of
MAJOR C. A. VERNON,
G. N. CARDOZO,
1st Lieut & Adj.

Y. M. C. A.

The men's reception, given by the Y. M. C. A. last Friday evening, was much enjoyed by all. The entertainment consisted of speeches by Prof. Smith, Dr. Waterman, Pres. Snyder, and Mr. Williams of New York, refreshments and amusements in the way of sword fights,

double-headed speech, and an obstacle race. Intervals were made pleasant by selections on the phonograph.

Four men's Bible classes were organized Sunday morning at 8:15 in the Y. M. C. A. rooms. There is evidence of much interest in this work among the students. Any wishing to join one of these classes should speak to the general secretary.

Chapel was conducted Sunday morning by Rev. Pound, of Lansing. Text was taken from Matthew 9:21, "If I may but touch his garment." Might not we touch the Infinite?

The men's meeting at seven o'clock Sunday evening was very well attended. Mr. A. L. Parker, of Detroit, spoke. He emphasized activity in the spiritual life along with our mental and physical work. We are glad to report that before the meeting closed at least six "about faced" for a new life.

ENTERTAINMENT COURSE.

The entertainment course at M. A. C. will consist of seven numbers. Sen. J. P. Dolliver of Iowa, Russel H. Conwell of Philadelphia, DeWitte Miller, Col. Ham, Melvin Robinson, Metropolitan Grand Concert Co., and the Mendelsohn Male Quartette are the attractions. A committee will call at the different halls for the purpose of selling tickets. It is generally understood that the price of the entire course is to be one dollar. This is remarkably low considering the character of the entertainments. If a person does not get a dollar's worth of good out of either Sen. Dolliver or Russel H. Conwell, then there is no hope for that person. Both are leaders in their respective vocations and are speakers of more than ordinary power. Senator Dolliver is regarded as one of the best orators in the United States Senate and Conwell's fame on the platform is too well known to need any comment. De Witte Miller and Col. Ham have given excellent satisfaction. Miller's humor and wit are appreciated by all. While we cannot speak from experience about the other men nor about the Concert company, yet they are well recommended. M. A. C. should patronize this course and make it a success in a financial way. The course commends itself especially to those who have had limited opportunities in the way of lectures and concerts, but no one can afford to let it go by. It will be an uplift in every way and will bring you in contact with real life.

The class in zoology has some fine specimens of amoeba. An infusion of hay from last year was moistened and in this these minute Protozoans seemed to thrive. Over 300 were found in a low power field. This is quite remarkable since these are usually difficult to secure.

Museum is open every Sunday afternoon from two to five and from eight to five during week days.

ALUMNI.

With '73.

L. G. Palmer is Circuit Judge of the circuit comprising the counties of Mecosta and Newaygo. Judge Palmer has secured an enviable reputation throughout the state as a platform speaker. He has an excellent voice and is good with a story. He is a great favorite with the boys in blue having passed through the war as drummer boy. The Palmer family consists of two accomplished daughters and one son who is a student in the high school.

'76.

W. J. Sloss has a well equipped implement store in Big Rapids. Mr. Sloss is alderman from the first ward and president of the city council. Mr. and Mrs. Sloss reside on Stewart Ave., and have a beautiful home. They have a daughter and a son, both of whom are students in the high school and expect to enter M. A. C. at the completion of their present course.

'81.

D. S. Lincoln has a large fruit farm and a well stocked greenhouse about a mile from Big Rapids. Mr. Lincoln supplies the city with small fruits and vegetables. He is the originator of several varieties of strawberries.

'83, '85, '86.

The Hammond Publishing Co., of Lansing has been doing a large business this fall. It has introduced its text-books in a large number of Michigan schools. A. C. Bird, '83, is president, H. E. Thomas, '85, is vice president, and Jason E. Hammond, '86, is secretary and treasurer. A. C. Bird is also secretary and treasurer of the Clippert Spaulding Co. This firm has received new life recently and will soon be enlarged to make 10,000,000 bricks per year. It employs 100 men and is a very prosperous company.

'83 and '85.

A. C. Bird and H. E. Thomas are connected with the Autobody Manufacturing Co., of Lansing. They are the oldest and largest firm in the U. S., manufacturing bodies for automobiles.

With '88.

J. A. Thompson is Supt. of schools at Bancroft. This is his third year there of successful work. He was at the College recently with a candidate for the freshman class.

B. S. Travis is teaching civics in the Ferris Institute, Big Rapids, Mich. Mr. Travis has been at the Institute for a long time and is secretary of the Board of Directors. He is known for his large stock of good nature. He and his family reside on Woodward Ave. His son George is attending the high school and is a prospective M. A. C. student.

'89.

Geo. Flower is Captain of Engineers of U. S. Coast and Geodetic Survey.

THE M. A. C. RECORD.

PUBLISHED EVERY TUESDAY DURING THE COLLEGE YEAR BY THE MICHIGAN STATE AGRICULTURAL COLLEGE

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TUESDAY, SEPT. 29, 1903.

THE M. A. C. Record is published for the purpose of keeping the college of to-day in touch with its alumni. It aims to give the main facts of college life and also the whereabouts and work of former students. To accomplish this, the managing editor invites correspondence with the alumni and respectfully requests students and faculty to keep in mind the needs of the Record. A box can be found in the Library building. If a friend visits the college or anything of importance occurs, please use the box or make note of the fact.

STUDENTS should learn the value of our library of over 24,000 well selected volumes. Mrs. Landon and Mr. Patriarche will be pleased to give assistance. The value of books is inestimable. The different departments can suggest books to read in connection with your work. Read them when you have time and take notes. These can be reviewed when the book has been read and thus the principles fixed in mind.

MANY students have to work their way through, either in part or entirely. Many a time they become discouraged. They have to sacrifice many things, but in the end usually come out better equipped for life's work than those who have plenty of spending money and don't know how to spend it. Habits of industry and frugality make for success. While there is no virtue in poverty itself, yet the effort necessary to overcome obstacles is of great value. It explains why the poor boy of yesterday is the prosperous man of tomorrow.

ALUMNI.

'89.

F. N. Clark and H. E. Thomas of '85, are the organizers of the Clark Automobile Co., of Lansing. The firm has a large factory and is doing a constantly increasing business.

'93.

D. J. Crosby and A. C. True, of the Agricultural Department, Washington, D. C., are the authors of a

very interesting and instructive bulletin on agronomy as taught at some agricultural colleges. Eleven pages are devoted to M. A. C., besides a fine cut of the agricultural laboratory and two cuts illustrating work on soils.

V. J. Willey has been offered the superintendency of the new school for the blind in Saginaw. He preferred to remain in Ann Arbor as instructor in electro-therapeutics.

W. W. Parker is chemist for the Pacific Starch Co. at Tacoma, Washington.

L. J. Briggs is spending his vacation in Michigan. Mrs. Briggs has been visiting in California.

With '94.

H. L. Pinney is engaged in the manufacturing business at Seattle, Washington.

'95.

Chas. H. Robison has opened dental parlors at Dearborn, Mich. "Bob" weighs over 200 and is certainly able to extract any tooth however obstinate.

With '95.

Dan Smith of Portland was a visitor at the College recently.

Lyman Carrier is teacher of sciences in the public schools of Elyria, Ohio.

'96.

L. J. Love is landscape gardener at the Asylum grounds in Kalamazoo. The grounds are beautiful and well cared for. Mr. Love is enjoying his work. He claims that some of the inmates are worth more than 8 cents an hour.

With '96.

Nancie Mac Arthur is a sophomore in the literary department of the University of Michigan.

'97.

Geo. Richmond is instructor in Physiological Chemistry in the University of Mich.

'98.

Homer Skeels is botanist for the Forest of Arden at Joliet, Ill.

Frank Warren is engineer for the Smedley Construction Co., of Philadelphia.

F. L. Woodworth is growing both fat and rich on a large farm at Caseville, Mich.

F. I. Williams is city engineer at Petoskey. He does considerable work in surveying throughout northern Michigan.

With '98.

Leon Cole, who has taken an advanced degree at Harvard, is now instructor in zoology at that institution. He has published articles on Pycnogonida. These are very puzzling marine forms classified either under the crustaceans or arachnida.

'99.

Roscoe Kedzie is meeting with excellent success as minister of the Congregational church in Vicksburg.

'00.

Alice Cimmer is teaching domestic science in Battle Creek high school for the second year.

'01.

Hugh Baker is taking his second year in forestry at Yale University. The U. S. Department of Agriculture has granted him another year's leave of absence.

Mr. and Mrs. Clare W. Haven rejoice over the arrival of a 9-pound son on Sept. 26. All are well. They are located at Painesville, Ohio.

Vesta Woodbury is teaching in a state institution in Glenwood, Iowa.

'02.

W. W. Wells, formerly instructor here in mechanical engineering, is now at Erie, Pa.

Marguerite Nolan is instructor in domestic science in the Industrial Institute at Weiser, Idaho.

'03.

Emma Barrett is teaching in the Middleville schools.

Geo. Tryon was recently elected as instructor in mechanical engineering at M. A. C. He was graduated from the St. Joseph high school in '98, entered M. A. C. in '99, and received his degree last June.

Arthur Peters, captain of last year's football team called here last week.

Frederick Engel is drafting for the Murphy Iron Works of Detroit.

Chas. Marshall is superintendent of a stock farm in California.

Alice Gunn has charge of domestic science and art in the Iron Mt., high school. This course was added to the curriculum during the past summer.

Bessie Buskirk is teaching in the public schools of Zeeland, Mich.

W. Morton Barrows will enter Harvard University Oct. 1st. He intends to take advanced work in zoology. During the summer he was at the Marine Biological Laboratories, Wood's Hole, Mass. He recently sent quite a collection of Marine specimens for laboratory

work, a few of which will be placed in the museum. His address is 41 Wendell St., Cambridge.

Hattie Wright has charge of domestic science and art at Sault Ste. Marie, Mich.

With '03.

Timothy F. Foley, deckhand on the Somona, was drowned about 10:45 Friday night, Aug. 28, off the Orleans street dock, Detroit. The Somona was landing for repairs, and Foley was put on the dock with a line. In the dark he tripped and fell in, drowning before help reached him. The body was recovered with great difficulty, requiring 15 hours of searching. Mr. Foley had many friends at M. A. C. He was a student in the agricultural course, enrolling from Mt. Salem, St. Clair county.

With '06.

Ray S. Bourner, of Harbor Springs, has secured employment in the state of Washington for the ensuing year.

The late blight of potatoes, *Phytophthora infestans*, commonly known as downy mildew, has made serious havoc the last few weeks, especially on low ground. It commenced with the tops during the last week in August and is rapidly attacking the tubers. They should be dug at once and thoroughly dried. One bushel of dry lime to 25 bushels of potatoes will prove valuable. Dry heat, 40 degrees C, for four hours will destroy the disease which is often not apparent from the outside. A brownish discoloration may be seen below the corky layer. There is apt to be a great loss this year to dealers who store potatoes. If diseased tubers are planted next spring the disease is apt to reappear.

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FIRE UP!

Tell us what fuel you wish to burn and we will show you a stove that will please you. We have a choice variety to select from. We have the agency of the PEACH OIL HEATER, and it is a peach. Call and see it.

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All goods delivered
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ALSO RUBBER SOLE AND CLOTH TOP GYMNASIUM SHOES.

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BLOCK.

ABOUT THE CAMPUS.

Ray S. Baker of the class of '89 is home for a brief time.

Mrs. A. M. Brown is seriously ill at the present writing. Mrs. Smith is improving.

The meteorological station has been moved to the top of the Veterinary laboratory.

Prof. U. P. Hedrick addressed the Marion Farmer's Club on landscape gardening last week Thursday.

Mrs. Chas. A. Kerr of Pioneer, Ohio, is visiting Miss Kerr of the agricultural department and brought along a son who has entered the sub-freshman class.

All the greenhouses will be heated by steam. The old system of heating by hot water has been removed and now the heating will be directly connected with the boiler house.

The cheese contest closes about Sept. 30, and the butter contest the last of October. Gold medals will be awarded. This is the first educational test that has been conducted along dairy lines.

Dr. Marshall and family arrived at the College on Monday, Sept. 21st. The Dr. has lost nothing as far as organic matter is concerned, and claims to have lost less of the metallic than he had expected.

F. W. Robinson was in Chicago over Sunday and while there saw Prof. Woodworth and family, Prof. Nies, Mr. and Mrs. Eastman and Mr. C. E. Hoyt. All were well and were still enjoying life in the windy city.

Mrs. W. L. Rossman of Harbor Beach, is visiting Mrs. Babcock.

Mr. L. Reasoner, employed in the botanic garden, is ill at his home in Collegeville.

Miss Winnifred DeCair is the new stenographer in Prof. Smith's office. She comes from the Ferris Institute.

Miss Dorothea Moxness will be temporary assistant in experiment station chemical laboratory. Miss Moxness comes here from Minnesota. She has received her training in Norway and Germany.

M. D. Corbin, in charge of history and political economy at M. A. C. from 1889 to 1892, visited here during the past week. Mr. Corbin is one of the editors of the *Detroit Journal*.

A new bulletin will be issued on mushrooms. The last edition proved very popular. Mr. Longyear is making a special study along this line and has collected a large amount of material.

Prof. Barrows is putting all his margins of time on a new bulletin about the birds of Michigan. This will undoubtedly prove a very fascinating and instructive bulletin since Prof. Barrows is known everywhere when it comes to birds.

Prof. Barrows has finally secured a specimen of the Great Gray Owl, shot in Michigan. The museum now has every species of Michigan owls known. The last specimen is a fine one and was killed at St. Ignace in January, 1894.

Director and Mrs. Brewer have secured rooms at Mrs. Gunson's.

A new air pump has been placed in the woman's building in connection with the gas machine.

Rev. Jas. MacArthur, of Cass City, was at the College during the past week, visiting his daughter, Mrs. G. Masselink.

Instructor Michels has conducted a very interesting educational scoring contest in butter and cheese. The work has been successful in every respect. 33 took part in the cheese contest and 52 in the butter contest. Experts scored both products, criticised and gave suggestions.

The debating class will be reorganized in the English class room, No. 7, College Hall, on Thursday evening, October 1st. All those interested are requested to be present. Meeting will be called to order at 7:30 p. m. No young man can afford to miss the opportunity thus offered. It makes no difference what course he takes. We venture to state that classes of this nature do more for the development of young men than any other class in any institution whatever. Many have placed the training derived from this work equal in value to their entire college course. Next spring M. A. C. debates Ypsilanti, and the contestants will be selected from the debating class. Come out the first evening, debate when your turn comes though you can utter but ten words in logical sequence. To him that overcometh and endureth to the end will be given a rich reward.

E. A. Edgerton, engineer at M. A. C. from '91 to '96, is making a visit in Lansing and at the College.

Chas. A. Mosier, assistant in horticulture in the Georgia Agricultural College for the past two years, is here taking special work along that line.

Engineer Newell has vacated the rooms at the boiler house and has moved into his new home recently purchased from Geo. C. Humphrey who accepted a position in the University of Wisconsin.

President Snyder acted as toastmaster at a masonic banquet recently held in Lake Odessa. He has forbidden ye editor to publish the glowing account of his versatility and wit given in the *Lake Odessa Blade*, but anybody can secure the principal facts by asking him for his clipping.

Dr. Dunaghaki, of Japan, inspected the botanic, horticultural and experiment station departments. Dr. Dunaghaki received his degree in Jena, Germany, and has studied in Vienna. He is professor of botany in northern Japan and expressed himself as highly pleased with the various departments.

The question with Ypsilanti is, *Resolved*, That the limitations placed on the suffrage in the State of Mississippi by the State constitution promulgated in 1890 and in effect Jan. 10, 1892 are legally and morally justifiable. M. A. C. has the affirmative and Ypsilanti the negative. The library has a large amount of material on this question.

ABOUT THE CAMPUS.

Mr. and Mrs. Thos. Flower, Jr., visited the college during the past week.

The enrollment of students at this date shows 336 new ones and a total of 739.

No uniforms for cadets will be ordered until paid for at the Secretary's office.

Mrs. L. Vlier, nee Louise Truman, and two daughters are paying M. A. C. a visit.

The library will be open week days from 8 to 12, 1 to 6 and 7 to 9; Saturdays, 8 to 12 and 1 to 5:30; Sundays, 9 to 12 a. m.

The cases of insect specimens prepared by the zoological department will be ready for shipment in about a month. They are sent to Michigan high schools on the approved list. The case contains 70 specimens of the principal orders of insects.

B. O. Longyear, botanist of the experiment station, has been carrying on a series of experiments with fumigating and dipping apples to prevent decay, especially those affected with a disease called Venturia dendritica, commonly known as scab. A mold known to the scientist as cephalothecium roseum starts in these scabby places and causes rapid decomposition. Sulphur fumes have been tried and also formalin, 1/2 and 1/4 per cent of the commercial solution. No fixed results have been obtained so far.

The Detroit Free Press of Sept. 25 has the following to say about the Adrian Fair: "Prof. R. S. Shaw, of the Michigan Agricultural College, judged all of the cattle classes at the Adrian fair, giving the best of satisfaction, both to the exhibitors and to the spectators in the judging pavilion. Prof. Shaw, who has inherited many of the characteristics of his honored father, bids fair to establish himself in the affections of the live stock breeders of Michigan, as no other young man has done in the history of the state. He knows a good animal when he sees it and is able to give plenty of good reasons for his preferences. He makes his decisions without fear or favor, awarding his prizes on merit alone."

Prof. Shaw also judged the stock at the State Fair in Pontiac and gave excellent satisfaction. The Free Press got things mixed at that time. The objection was not to the decisions but to the classifying of animals. Home breeders objected to having imported stock judged in competition with Michigan stock. This was a question to be decided by the Fair authorities and not by Prof. Shaw.

The Detroit Free Press of Sept 25 contains the following article by Prof. Shaw on the International Live Stock Association:

The International Live Stock Exposition stands today a monument bearing witness to the rapidity and stability of American enterprise and achievement. Scarcely four years ago the new born and fondly cherished ideas of the Union Stock Yard & Transit Co. bore fruit in the first international. At the last exposition in December, 1902, there were gathered together in competition at Dexter park amphitheater horses, cattle, sheep and swine from nearly every state in the union and from Canada and England; and these the product of the most careful breeding

of many decades. Proof of the stability of this great enterprise is found in the fact that the 350,000 people who attended in 1902 were not drawn by features that tended to amuse or entertain, but by those solely of an educational nature.

The International is a very potent educational factor. None but the most perfect types of live stock are gathered together there, mostly winners from the expositions during the preceding season. From these the breeder can formulate correct ideals. This must result in greater uniformity in live stock production. The questions of correct types and how to produce and maintain them, are all important today. Hitherto there has been too great diversity of opinion along this line.

One cannot attend the International without carrying home some inspirations received by coming in touch with the most skillful and experienced breeders and feeders of the country. This result is not manifested alone by those with the ability to add new and improved blood to their studs, herds and flocks through large and expensive purchases. It will also manifest itself in very marked improvements in the productions of the comparatively obscure breeders and feeders who furnish the large percentage of the market supplies.

The necessity for more "quality" in live stock products is one of the important questions of the day. By quality we mean even, thick-fleshed carcasses carrying the greatest possible amount of edible material devoid of excessive fatness. The time has been when fat won in the show ring; but recently the International has provided magnificent demonstrations by the way of slaughter tests, impressing the necessity of "quality" in the carcass. The ability of the producer to inspect animals on foot and then the carcasses after dressing, furnishes him with rare and impressive object lessons.

It is a rare privilege for the stock breeders of America to have an opportunity annually of attending one of the greatest live stock expositions of the world; to come in contact with the master breeders; to come directly in touch with the greatest markets and market conditions; to meet in assembly in the various organizations to listen to the discussion of the important live stock topics of the day; or to come directly in touch with the various registry associations now located at the Union Stock Yards.

No one engaged or interested in live stock production can afford to miss the International of 1903.

The following advertisement in a west of England paper shows what the party wanted in an up-to-date hog killer. The ad. says:

"Healthy young man wanted for small farm; must be early riser and able to kill pigs; preference given to an educated person; will be expected to teach little boy when not required on farm."

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IS THE BEST PRAISE A COMPETITOR
CAN BESTOW ON
Spaulding's Sporting Goods
A COMPLETE LINE OF SPAULDING'S
GOODS KEPT AT
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It is doubtful if our present civilization could exist without the science of life insurance. Security and protection go down the line together. The varying plans for paying for this protection are as diverse as the needs of the people whom it serves. A single payment may be made, the payments may be distributed over a specified term of years or the payments may be continuous through life. Endowment policies provide a stated amount of insurance, and the payment of a certain sum at a specified time. All these forms of policies are issued by

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