

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 13.

LANSING, MICHIGAN, TUESDAY, MARCH 17, 1908.

No. 25.

THE FINANCIAL VALUE OF EDUCATION.

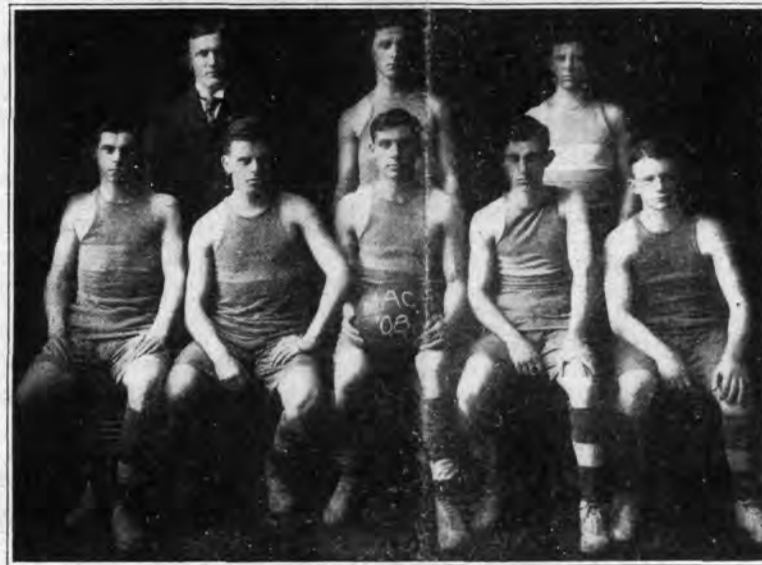
Extracts from an Address by James H. Eckels, President of the Commercial National Bank, of Chicago, Given Before the National Educational Association at Los Angeles, July, 1907.

"I hesitated a good deal, being engaged in the sordid occupation of handling dollars and cents, as to whether or no I should be doing the cause of education any particular good by trying to demonstrate that in this day and generation there is some financial value in being somewhat learned in the books of art and science and agriculture. I am not sure but today when public success is considered a crime and the accumulation of money something to be abhorred, that if it becomes known that men can become richer and more industrious and more saving because they are educated, public sentiment will put the public school, and the high school, and the college in the same class with other corporations, and that there will be serious objection if provision is made for education which enables men to live well, make a fair appearance, now and then give something to a public charity or a public educational institution, and leave something for their children.

"If it be true that such is the public sentiment as regards the result of financial undertakings, why might it not well be argued that the thing which enabled a man to make two blades of grass grow where but one heretofore had grown, which enabled him to apply an acquired knowledge of chemistry, obtained from the books in the schools, which brought about greater results in the arts and sciences, which enables him to know more of mining and metallurgy and all the other things that made it possible to take greater wealth from the earth; why, I say, could it not well be assumed that the encouragement of such a thing resulted only in harm instead of in good? Or, in other words, that when educators had departed from that which in the earlier period of educational undertakings developed simply the scholastic side of man, and gave instead the industrial and commercial education, that they worked out harm instead of good to the community?

"This country within the last two decades has seen a progress so wonderful that not alone our own people but the peoples of other nations have stood in amazement at it. There has been great development in lines of transportation, in the mining industry, in agricultural pursuits, in the marvelous advance of manufacturing, in the still more wonderful advance in scientific undertakings, not the least cause of which has been that from those schools and colleges over which you, gentlemen, preside, has come a practical knowledge of the things which are necessary for the development

(Continued on page 2.)



STATE COLLEGE CHAMPIONS

TOP ROW: Brewer (coach), Merz, Mills.
LOWER ROW: Hanish, McKenna, Vondette, Krehl, Dickson.

ELECTION RESULTS.

The annual athletic election held last Saturday brought with it an unusual amount of rivalry for the various offices, and consequently a seemingly necessary lot of electioneering. The contest for football manager created the most excitement and was chiefly between Akers (Polly) and Kurtz, the former winning by a majority of twenty-eight votes. "Benny" Ellis won the baseball managership by a big majority. For basketball, "Herbie" Mills was elected manager; for track, G. A. Bignell, and for tennis, R. A. Turner. The Senior class elected, as their members on the athletic council, I. V. Gongwer and W. H. Small; the Juniors, C. J. Oviatt and G. H. Allen; the Sophomores, P. G. McKenna and H. Mills; and the Freshmen, E. H. Merz and L. G. Kurtz. The following is the vote cast for team managers:

FOOTBALL MANAGER.—F. H. Akers, 178; R. L. Kurtz, 150; F. B. Sweeney, 127; R. V. Tanner, 68.

TRACK MANAGER.—G. F. Bignell, 209; F. J. Hewson, 131; C. J. Oviatt, 102; F. O'Gara, 80.

BASKETBALL MANAGER.—H. Mills, 156; R. E. Dickson, 141; R. Vondett, 125; A. L. Campbell, 98.

BASEBALL MANAGER.—B. C. Ellis, 325; H. L. Kempster, 125; E. E. Nies, 68.

TENNIS MANAGER.—R. A. Turner, 235; Miss Kedzie, 212; Howard Taft, 71.

WHICH

HE.

"You ne'er can object to my arm around waist,
And the reason you'll readily guess;
I'm an editor dear, and I always insist
On the liberty of the press."

SHE

"I'm a minister's daughter, believing in texts,
And I think all the newspapers bad;
And I'd make you remove your arm
were it not
You are making the waist places glad.

DEBATING CONTEST DRAWING TO A CLOSE.

The contest for a place on the team which is to represent M. A. C. in its debate with Ypsilanti is now drawing to a close. At the third preliminary last Friday night the following were successful and will appear in the final debate in the following order:

Affirmative.	Negative.
C. C. Taylor,	C. J. Oviatt,
P. H. Piper,	J. C. De Camp.
Z. T. Graybill,	H. L. Kempster.

The matter of judges, time, and place will be decided at the regular meeting of the Debating Club this week on Thursday at 7 o'clock in Room 7, College Hall. All members and especially the debaters are requested to be present.

EUNOMIAN SOCIETY.

The Eunomian Society held its winter term free meeting Saturday night. Program were given in shape of menu cards, as follows:

Mixed Nuts.
Scrambled Rhymer—T. C. Whyte.
Imitation Gibler Sauce—O. W. Stephenson.
Friar's Song A ha Holler—R. A. Turner.
Hash—R. V. Tanner.
Edmund C. Stedmund, ink dressing—F. M. Barden.
Lemon Ice—H. H. Mussleman.

Refreshments were served during intermission. Pres. Snyder very kindly acted as critic.

THE WISE COLLEGE MAN.

Freshman—Feel wiser.
Sophomore—Budweiser.
Junior—Get wiser.
Senior—Look wiser.

"What you say goes," he sadly said
With eyes and heart aflame,
She glanced at the clock and turned
her head
Then softly whispered his name.

—Ex.

ALUMNI

'05

E. C. Place is now located at Glenwood Springs, Colorado, as city editor of *The Post*, the leading paper of that city.

'06

D. O. Stayton '06 is now with the Indianapolis Water Co. at Indianapolis, Ind. His address is 111 West North street.

At the annual contest for new members at the Sororian Society Miss Florence Barlow won first place and Miss Myrtle Myres, second.

Mr. C. L. Allen, '11, who has been seriously ill with typhoid fever is reported as improving rapidly. His mother and brother of Tacoma, Washington, arrived here Sunday.

H. O. Stabler, representative from the U. S. Forest Service, will be here this week to give the senior forestry students special practice in United States Forest Reserve Regulations.

The freshman oratorical contest, held by the Columbian Literary Society last Saturday evening, was a very close contest. First honors and a society pin was won by L. P. Walker, second place by W. B. Orr, third place by L. G. Kurtz.

We are very sorry to announce the death of Mrs. R. M. Agnew, which occurred at the Deaconess Hospital at Toledo, Ohio, Feb. 29, resulting from a second operation for appendicitis. Mrs. Agnew will be remembered as Miss Grace Wagner, with '04. Two daughters, Eleanor May, aged 3 years, and Helen Grace, aged 3 months, are left motherless. Mr. Agnew has the sympathy of the Record and the College. He was graduated with the class of '09.

A few years ago at a meeting of Science teachers held at Rochester, New York, John M. Spencer, one of the teachers of extension work in agriculture at Cornell University, said: "We have introduced agriculture into the common schools, but it has been introduced under another name, 'Nature Study.'" Recently a copy of an address by Eugene Davenport, Dean of the College of Agriculture of the University of Illinois has been handed to us, and in it he says: "When I speak of teaching agriculture in our high schools, I mean *Agriculture*. I do not mean Nature study, nor do I mean that some sort of pedagogical kink should be given to chemistry or botany or even geography and arithmetic. Let these arts and sciences be taught from their own standpoint, with as direct application to as many affairs of life as possible; but let chemistry continue to be chemistry; let agriculture introduce new matter into the schools and with it a new point of view."

The M. A. C. RECORD

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TUESDAY, MARCH 17, 1908

The Financial Value of Education.

(Continued from page 1.)

of these resources which heretofore in this country have existed, but have not been developed. And, as a result of getting away, to an extent, from the mere scholastic education and developing the practical side, making the school the place to learn how to manufacture, how to apply science in a practical way, how to make agriculture a science instead of a mere haphazard thing — because of these reasons there has been this wonderful growth of wealth; and, as a result of it, men have acquired great fortunes.

"I think as I have stated, that the great advance which education has made in this country within the last decade is an advance along practical lines. An analysis of what has been accomplished by introducing into the school a knowledge of agriculture, it seems to me, will demonstrate that it has been of more benefit, especially in this great western country of ours, than any other undertaking which the educator has had in hand within a very long period of time. I was asked the other day how I accounted for the fact that in the west, and especially in the Mississippi Valley and on the Pacific coast, there had been brought about such a marked difference in the condition of the agricultural interests. My reply was this: That, especially since the period of the last financial depression in 1893, there had been a great light seen by the farmers of this country, and that for that light the educators in our state institutions were to a very large degree responsible; that until there was taught in these institutions a scientific knowledge of farming, a knowledge of what the soil consisted of, of what the soil was best adaptable to, and the kindred things which are essential to successful farming, the farmer went at his work in a haphazard way, planting a crop here and a crop there, without any knowledge as to whether that particular crop was fitted for that particular soil, and without knowing whether there ought to be from time to time either changes in the crop planted or in the fertilizing of the soil; and that, through this schooling, there had come, as an additional means of making the

farmer more successful, the growing of a variety of crops.

"I gave, as another reason why there was so much wealth being produced in the West, the fact that the schools had taught the science of metallurgy and had applied chemistry to the mining of the metals, so that ores which a few years ago were considered of little or no value, now, by the processes which have been applied through a knowledge of the science of mining, gained in the schools, were made of very great value.

"And so you might take up a great many other educational benefits which have come to the practical business side of life in such a way as to make a great amount of wealth, where heretofore there had been a great amount of poverty. I cite another instance in connection with agriculture, and that is the perfecting of scientific and mechanical inventions which have made possible the bringing to the arid parts of our country the benefits of irrigation; where water, heretofore useless, has been applied to land, heretofore useless, until you have as a result very great and wonderful agricultural wealth.

"Then take the question of electricity. Its application to the art of mechanics has been so very wonderful that it seems incredible to think that only as far back as 1876, when the Centennial was celebrated in Philadelphia, there was not an electric light in that great aggregation of buildings. And then there is the other and broader side, which is different from the side of mechanics, or of transportation or of agriculture, and that is that it is through the schools that the young man and the young woman are best fitted to gain such a knowledge as is essential to the multiplicity of undertakings in the business world.

"I once heard President Wilson, of Princeton University, say that, if he were to sum up in a single sentence the great benefit of education as applied to commercial or financial undertakings, he would say that it gave the student what he termed "the traveled mind;" in other words, that it gave him a mind that enabled him to lay hold on what was being done in other parts of the world; that it gave him a mind that knew the geography of the world; that it gave him a mind that knew what was being done by peoples of other countries; that it gave him a knowledge of what India could produce; of what South America had; of what all the European countries were best fitted to do, and what, in the mechanical, the business, and the agricultural world, these people were doing; and that, as applied to the ordinary affairs of business, the affairs of the banker, the affairs of the merchant, the affairs of the manufacturer, is, to my mind (apart from the purely practical side of education) the best that it accomplishes.

"For he who studies the conditions of this country and other countries today and knows the kind of competition in every line of business, whether it be banking, manufacturing, or other undertakings, must have been impressed with this one thing more than any other: that we have reached a period now where we cannot succeed unless we have the very best knowledge and the very best methods to apply to the business in which we are engaged,

because this is the age of competition; the age of competition upon the part of those who have brains and who, having those brains, know best how to apply them to the hand, so that the hand can accomplish the greatest results with the least physical labor. It is the age when every man must be alert both in body and in mind. It is the age when a man who is extravagant in the work which he does, falls far behind. It is the age when the profit in business is the doing of the most at the least cost, in the most scientific way. It is the age when the man who acquires a fortune, whether it be small or swollen, gets it because with the very least amount of cost he turns out the largest volume of product and he finds his profit, not in an extravagant price charged for a single article, but in making that article so he can sell it at the lowest price, with the least profit, and sell the greatest number of articles at such a price that most people can buy them."

ENGINEERING SOCIETY

Last Tuesday evening Mr. Zimmerman, chief engineer of the Mich. Power Co., addressed the engineering society upon the Hydro-Electric Power Plant which he recently installed in Lansing. This plant is one of five prospective plants with which the Mich. Power Co. intend to develop sixty miles of the Grand river within the next ten years. They plan in this way to develop 20,000 h. p. and in addition to instal an auxiliary 10,000 h. p. steam plant for use in periods of low water. The power developed is intended for general use in Lansing and surrounding towns, but Mr. Zimmerman predicts that within ten or fifteen years Lansing alone will require the total power output.

The new Lansing plant which develops 2000 H. P. was designed to occupy the space left by dismantling the old 700 H. P. plant, necessitating crowding it somewhat. The old plant consisted of only one unit, and in case of an accident it was necessary to shut down the entire plant, but in the new design this has been overcome by dividing the plant into two independent units. These units consist of two three phase, four-wire, star connected, 500 K. W. generators with the neutral points grounded. The generators are separately excited by two 20 K. W. exciters. The units are driven by two pairs of wheels

so designed that under small loads, in order to obtain a maximum efficiency, either pair of wheels may be cut out leaving the entire load upon the other pair. Throughout the construction cast iron columns and reinforced concrete have been used to quite an extent, in some cases as in the tail-race to give a larger open area and in others for strength. At no vital point in the plant do they depend upon concrete alone to sustain the load.

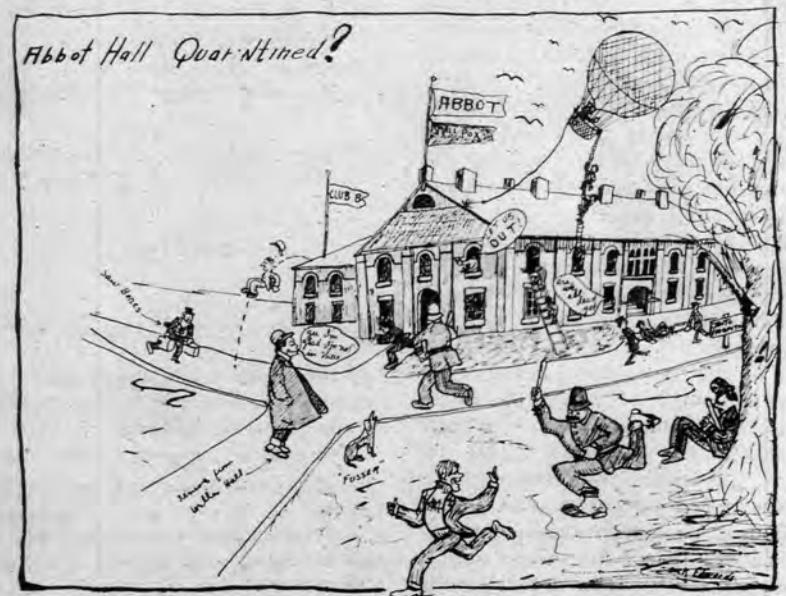
Work was commenced upon this installation early in July of last year and everything that could be done before closing down the old plant was done in order to save the additional expense of carrying the load with a steam plant. The old plant was shut down on Sept. 12th, and in ninety-two days the new plant was running and by Feb. 1st the job was practically completed. The total cost of installation was about \$250,000, which is only about \$15,000 in excess of what it would have cost to have installed a 1,000 H. P. plant. The talk was illustrated throughout with slides showing the plans of the plant and various stages in the progress of the construction. Charts showing the materials of construction used and the number of men employed during the installation were also shown.

This evening Mr. Dow, of Detroit, will speak upon "Trend of Recent Central Station Practice." Mr. Dow is general manager of the Edison Illuminating Co., of Detroit, and a member of the American Societies of Mechanical and Civil Engineers and the Institute of Electrical Engineers, and will undoubtedly give us one of the best talks of the term.

Prof. Babcock's new home is nearing completion. It will be ready for occupancy in a few weeks.

The Pere Marquette had a force of men clearing away the ice jam at the bridge Thursday. Dynamite was liberally used to break up the ice which then floated down to the athletic bridge but no serious damage was done.

H. H. Curtis, a senior agricultural student, is quarantined in the Hedrick house, east of the college with small pox. Though the case is very light a general vaccination has been thought advisable and Dr. Bruegel and his assistants were kept busy at the Bacteriological laboratory last week turning out recruits to the "sore arm brigade." Mr. Curtis is doing nicely, in fact is not confined to the house.



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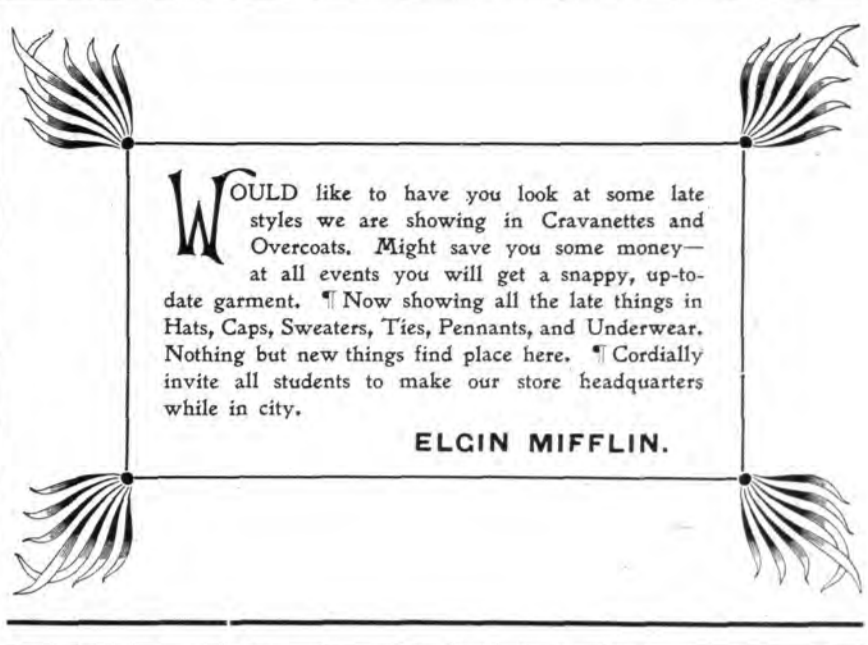
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ABOUT THE CAMPUS

The Woman's Society will meet with Mrs. C. A. Cornell, Wednesday at 2:00 p. m.

Prof. and Mrs. H. S. Reed are happy over the arrival of a daughter, born last Friday.

The Feronian Society gave a reception to Prof. and Mrs. Smith at their rooms Saturday evening.

The second entertainment on the Peoples' Church Entertainment Course will be given in the College Armory Saturday evening by the College dramatic classes.

The forestry department has just installed a small saw mill at the treating plant. It was donated by the De Looch Mill Manufacturing Co., of Bridgeport, Alabama.

The second annual banquet of the New England M. A. C. Alumni Association was held at Boston, March 6. President Edwards of Rhode Island, President Butterfield of Massachusetts were the principal speakers. We hope to give a more complete account next week.

Dr. and Mrs. Blaisdell entertained the members of the English and Modern language department last Saturday evening. Covers were laid for fourteen. Messrs. Tompkins, Cullom and Stevens, Mrs. Peppard and Miss Gilchrist carried off prizes of portraits for recognizing the largest number of authors' pictures, for writing the best limerick, and for making the largest list of famous names beginning with the letter D.

Instructor and Mrs. Gregg are entertaining an aunt, Mrs. E. L. Marvin, of Cooperville.

Board has been audited for the term as follows: A, 2.81; B, 2.97; C, 2.10; D, 2.32; E, 2.88; G, 2.56.

Coach Brewer refereed the basketball game between the D. A. C. and Detroit Y. M. C. A. at Detroit, Thursday night.

Wells Hall won the Inter-Hall meet Wednesday night by a narrow margin, the final scores standing as follows: Wells, 35½; Abbot, 30½; Williams, 28.

The absence of rain and the most favorable weather conditions prevented a repetition of the flood of 1904 this spring. So far but little damage has been done in or around the College.

The Indoor Meet between the M. A. C. Freshmen and the Lansing High School proved an easy victory for the Freshmen, they winning by a score of 62 points to 15 made by the High School.

The annual athletic carnival will be held in the armory Wednesday night for the benefit of the basketball team, who will be given sweaters with the proceeds. Exhibitions of tumbling, parallel bars, and fencing and a basketball game between the sophomores and the "World," the intercollegiate rules to govern the contest. Two wrestling bouts will also be given, so that the evening will be full of good athletic stunts.

The special cheese course closed last week. Only eight took this course this year.

Next Thursday evening is the appointed time for the election of Y. M. C. A. officers for the ensuing year.

The Zoological department has erected a large aquarium to be used in studying live specimens of fish, frogs, clams, etc.

C. E. Schmidt, member of the Detroit Board of Trade, will speak before the forestry club this (Tuesday) evening on Facts and Figures in Forestry.

At the annual Hesperian freshman oratorical contest Saturday night the following were successful: C. L. Brackett, first; F. P. Felt, second; C. S. Roe, third.

A Union meeting of the Y. M. and Y. W. C. A. was held at the chapel Thursday to listen to an address by Mr. A. W. Staub of New York City on the Modern Spirit of Missions.

Dr. Blaisdell's class that meets at 5 o'clock Sunday afternoons will be held at his home next Sunday instead of at the Chapel. Every man who has been present at all during the term, is urged to be present for the study of Jacob next Sunday afternoon. The study hour will be followed by a little lunch and an hour of singing. The invitation to be at this final meeting for the term is for every member of the class. Come!

A complete report of the proceedings of the Semi-Centennial together with the addresses (delivered on that occasion has been compiled by Dr. Blaisdell and will soon be published.

The next annual meeting of the American Berkshire Congress will be held at the College next February. This is a national meeting and will attract large crowds. A large sale of full blood Berkshires will be held at this time.

The Sororian Society made its annual visit at the home of one of its members, Helen Esselstyn, on March 14 and 15. Saturday evening was spent in having "the best kind of a time" until it was evening no more. The merry crowd took the time to attend Sunday morning service at the Presbyterian church at North Lansing. The dinner tables, surrounded by 28, and with Miss Gilchrist as a guest, were laden with all sorts of good things to eat. After such a dinner it was necessary to take a long walk, on the return of which the large family stopped at the home of Edna Chamberlain for music. The old members present were Bess McCormick, of Albion, Jean McCoy of Milford, and Clara Stolte of Lansing who has been spending the winter in Florida. Many thanks are to be given to the whole Esselstyn family for the good times given the society and which each individual will remember as long as life lasts.

ESTABLISHMENT OF CO-OPERATIVE BREEDING ASSOCIATIONS.

Improvement of Michigan Cattle.

Michigan live stock, like that of many other states, is in great need of improvement. In addition to the purebred studs, herds and flocks there are a great many cross-bred, grade and some scrub animals, the three last named classes presenting a wide range of type, adaptability and quality. In some instances the inferior animals are the result of a lack of infusion of the good blood, while in others it is the outcome of the indiscriminate admixture of the blood of several breeds. Owing to the fact that but one or two per cent of the cattle in America are pedigreed, the owners of the common stocks could not replace them with registered ones because of the totally inadequate supply. It is a fact also that the ordinary farmer is not in a position financially to purchase foundation herds of registered animals to replace all the common ones no matter how desirous he may be to do so. So far as the large percentage of stock owners is concerned, the only practicable method of improvement open to them is through a system of up-grading, improving through the use of good sires.

Realizing the importance and practicability of this method the agricultural department has been authorized by the State Board of Agriculture to undertake special work in the state endeavoring to stimulate the improvement of horses, cattle, sheep, and swine. The work along cattle breeding lines was taken up March 1st with W. F. Raven, of Brooklyn, Mich., acting as field agent. Mr. Raven was chosen for the work because, as a practical farmer and successful stockman, he has improved his own herd and brought the same to a high state of perfection through the system of up-grading advocated by the department and outlined in Michigan Experiment Station Bulletin, No. 241.

In carrying on this work the field agent goes directly to the individuals of a community which has expressed a desire to undertake improved methods of breeding; he not only meets individuals, but assembles them as well in order to present the plan, develop unity of interest in the community, and organize improved breeders' associations. The first co-operative cattle breeders' association was formed in Jackson county, the first week of March, 1908. In this case the owners of 120 cows have organized. Hitherto they have been using grade bulls which are to be superseded by pedigreed ones. In this case the men are creamery patrons, and have decided to secure three Jersey bulls. The members of the association will divide into three groups, the idea being to use one bull on the cows of each group for two years, when they will be exchanged and the same thing done again at the end of four years. In this way the owners of these cattle will be provided with pure-bred sires of the same breed for six years hence, unless in the case of loss or accident.

A second association of breeders is about to be formed in an adjacent community in which four Guernsey bulls are to be used.

In addition to the formation of co-operative associations individual breeders are being assisted in making a start toward better methods of breeding, through securing and using good sires. A strong effort is being put forth to establish unity of purpose in each community so that co-operation may become possible and the particular section become noted for some specific line of production rather than a great variety of mediocre animals.

The State Live Stock Breeders Association and the various breed associations are lending valuable assistance in the work.

When the donkey saw the zebra
He began to switch his tail,
"Well, I never," was his comment,
"Here's a mule that's been to jail."
—E.C.

If a body meet a body
Coming through the rye,
Can't a body kiss a body
For fear of bacilli?—E.N.

M. A. C. will meet the Ypsilanti Normal in a track meet March 21. The contest will be held at Ypsilanti.



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