# The M. A. C. RECORD.

### MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 10.

LANSING, MICHIGAN, TUESDAY, NOV. 1, 1904.

No. 7

### M. A. C. 104, HILLSDALE 0. SOPHOMORES 17, JUNIORS 0.

In the second cup game against Hillsdale last Saturday, our team gave an exhibition of rapid fire football that has never been equalled in the intercollegiate. The M. I. A. A. record of 66 for high scoring was made to look small for M. A. C. rolled up eighteen touchdowns, twelve goals and one safety, in two short halves of twenty-five and twenty minutes, for a total of 104 points. M. A. C. used everything, line shifts, double passes, criss crosses, delayed passes—and they all worked. Hillsdale was helpless. They played pluckily to the end but before the superb team work of M. A. C. they could do nothing. One first down was all they made while M. A. C. was never checked.

Hillsdale won the toss, McKenna kicking off for M. A. C. It took three plays to throw them over their own line for a safety scoring two. Two minutes later Small ran thirty yards to the goal line. Doty scored the second touchdown on a delayed pass after the ball had been rushed the length of the field by short gains. The next touchdown took five plays, Hahn going 30, McKenna 15, Doty 10, Ashley 15, Small going the balance of the distance. Faster and faster the touchdowns came, Holdsworth with spectacular runs of thirty and thirtyfive yards secured two, Hahn one from 55-yard run, Ashley one, Bell one, F. Kratz one and Babe Kratz one, the half ending with a score of The second half at the request of Hillsdale was shortened to twenty minutes. Hillsdale kicked off and two plays scored, Small making 60-yards from the kick off and Babe Kratz thirty to the goal line. For the next scores, Ashley went 35 yards and McKenna 42 on a delayed pass, an entire fresh back field was then put in with Graham at quarter. Burke returned the kick off 45 yards and a moment later B. Kratz scored.

With six minutes to play and the rooters clamoring for a century the play was hit up faster and faster. B. Kratz scored the next after gains of 25 yards by Ferguson, 30 by Boyles and 25 by Graham. The last touchdown was scored in 50 seconds. Babe Kratz went 40 yards, Graham 35, Holdsworth 15, "Old Reliable" Kratz going the balance for a touchdown bringing the total to 104 with 12 seconds left to play.

M. A. C.	Line Up.	Hillsdale.
Holdsworth	L. E.	McRae
Bell	L. T.	Mitchell
Case	L. G.	Alger
McDermid	C.	Rowe
Boomsliter-Fisk	R. G.	Main
F. Kratz	R. E.	McInster
Ashley-Boyle	R. E.	Knapp
Small-Graham	Q. B.	Baker
Hahn-B. Kratz	L. H. B.	Hogan-Pope
M'Kenna-Fergs'n R. H. B.		Steimle-Myers
Doty-Burke	F. B.	Sietman

### Y. W. C. A.

Vieva Calkins led the meeting Thursday evening. Her subject was "Controlling the Thoughts." Immediately following the Hillsdale game on Saturday last, the sophomores won from the juniors in a hard fought contest by the score of 17-0. This game, as the score would indicate, was much more interesting than the one-sided contest which preceded it. Both teams played good ball and it would seem, by watching these class contests, that M. A. C. is not likely to run out of good football material in the near future.

The juniors, near the close of the last half, rushed the ball to within two feet of the goal, but were unable to cross the line before time was called. They put up a plucky fight, however, and the sophomores were compelled to work hard for their gains. This is the first game the juniors have lest.

The line up was as follows:

Te de la constante de la const	4-44 11 1-4
	Juniors.
C.	Markham
L. G.	Hebbelwhite
R. G.	Sanborn
R. T.	Spencer
L. T.	Kenrich
R. E.	W. E. Wilson
L. E.	Locke
Q.	Francis
R. H.	Hogue
L. H.	Barnett
F. B.	W. P. Wilson
	L. G. R. G. R. T. L. T. R. E. L. E. Q. R. H. L. H.

### U. OF M. ALL-FRESHMEN AT M. A. C.

While the result of this game on next Saturday in no way affects the inter-collegia'e championship, it promises to be one of the mo-t interesting games of the season. The All-Freshman team is made up of stars from the high schools and academies who go to the University expecting in many cases to make first team. They are in reality the second University team, and always put up a hard game. Two years ago we won from them 2 to o, and last year we raised the score to 11 to What we will do this year remains to be seen, but from the fact that they played Albion o to o not long ago, it is pretty good evidence that they have a team that will put up a good fight. All who enjoy a really good football game cannot afford to miss this one on Nov. 5.

### THEMIAN PARTY.

The Themian Society entertained their friends at a dancing party at their rooms last Saturday evening, Oct. 20.

The rooms were prettily decorated with vines, corn, and bunting. Baker's Orchestra, of Lansing, furnished the music. The honorary members acted as chaperones. We were very glad to note the familiar faces of Emma Barret, '03, Middleville; Edna Smith, '03, Grand Rapids; Katherine Slaght, '04, Flint; Alma De Frenn, '03, and Ethel Hume, '06, of Owosso, among these present.

Mr. H. M. Goss spent a few days at his home in Plainwell, the past week, where he attended the golden wedding of his grand parents.

### Y. M. C. A.

Mr. Sterling led the Thursday evening prayer meeting, assisted by Messrs. Hough, Tosh and Cavanagh. He took for his theme, "Let not your heart be troubled." The thoughts brought out were helpful and encouraging.

Sunday morning chapel service was conducted by Rev. E. M. Lake, of Lansing, who preached on the "Straight and Narrow Way," showing some of the difficulties which must be overcome in order to lead a Christian life.

In the union meeting Sunday night Mr. Choyei Kondo, a Japanese who is now a student at Albion, spoke on Christianity in Japan. The address was one of intense interest, and, coming as it did from a native of Japan, had a peculiar forcefulness, especially his earnest plea for more missionaries to his native country.

#### HORT. CLUB.

At the last meeting of the Hort. Club Mr. V. R. Gardner gave a talk on his work with the codling moth during the past summer, under the direction of Prof. Pettit.

Prof. Hedrick showed some Muscadine grapes and Persimmons, sent to the Hort department by Mr. Ayers, from Tennessee.

The meeting was well attended and the interest was good. All students interested in horticulture are requested to attend the meetings, which are held every Wednesday evening.

### A HALLOWE'EN PARTY.

On Friday evening the Seniors were entertained by President and Mrs. Snyder. All Saints' Day being near at hand, the entertainment very appropriately took on the form of a Hallowe'en revel. Jack-o-lanterns grinned down upon the ghostly company, sheeted and masked, which glided about the darkened rooms. The spectral crowd groaned their applause as they listened to the history of the festival, to strange, uncanny tales and weird music. A skeleton dance won their highest approval.

After recipes for pumpkin pie, written by the men, had been read and judged, the company were conducted to the cave of the Camean Sybil. The path thither was a tortuous one, leading up to an attic chamber where lay the earthly remains of one only just become a ghost, and finally down to the vine wreathed cave of the Sybil. Here, the earthen floor covered with rustling leaves, the rafters hung with strings of chestnuts and pop-corn, every detail added to the enjoyment of the guests. Cider, drawn from a great vine-draped cask, nuts, fruit and all the viands suitable to the occasion were bountifully provided. Throughout, the affair was most enjoyable.

A close shave—for further particulars see L. F. Jenison.

# ALUMNI.

Wih '61.

Merritt B. Snyder of Hanover, Mich., was a visitor at the College on last Friday. Mr. Snyder was one of the first students at M. A. C., having attended in 1857-59.

95.

C. P. Close, Horticulturist of the Delawate Experiment Station, has gotten out a new spraying mixture for San Jose scale. The mixture is composed of kerosene, water, and a special preparation known as limoid.

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Assistant State Analyst Van Wormer in the September bulletin of the dairy and food department, reports that of thirty-seven samples of food products examined, nine were adulterated. During the month thirteen defendants were convicted in trial courts.

'01.

L. H. Taylor, with '01, is transitman in a party of 20 locating a fortymile extension of the C. & N. W. Ry., from a point in Wisconsin to Saunders, Michigan. At present they are located in the pine forests, twenty-three miles from Saunders, His brother Ralph, with '03, is a tapeman in the party.

### BEET SUGAR 'OI.

Charles E. Collier of Bay City, Mich., who was employed as general foreman by the Tawas Sugar Company of East Tawas, Mich., left recently for Texas where he has accepted a position as chemist in a large cane mill and sugar refinery.

W. C. Owen, who was formerly assistant chemist at the Menominee (Mich.) sugar plant, and who has been employed as chemist in the central sugar factory at Santa Lucia, Gibara, Cuba, during its recent campaign, will return to Menominee to take his old position, October 15.—

Beet Sugar Gazette, Oct. 5.

H. G. Marshall, Beet Sugar Course or, is chief chemist in the Tawas Sugar Co., East Tawas, Mich.

'03.

F. K. Brainard is employed as electrical expert by the United Railway Company of Detroit, Mr. Brainard recently spent a few days at the College,

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Fred Walker, with '07, who is in attendance at the University of Michigan is soon to be initiated in the Phi Gamma Delta fraternity. Senator Fairbanks is national president of said fraternity.

'04.

Jewel Lee is a teacher in the southern part of Clinton county.

H. L. Burnett, who took the sugar beet course last winter, is employed as beetchemist by the Tawas Sugar Company, East Tawas, Mich.

## THE M. A. C. RECORD.

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

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### TUESDAY, NOV. 1, 1904.

UITE a number of our agricultural students are interested in knowing something of the cost, etc., incident in attending the Live Stock Show at Chicago which takes place soon. Heretofore the student body has been quite well represented at this show and it is hoped that a large number may find it po sible to go this year. For the benefit of those desiring to go we give herewith a statement of the trip last year, and from this one can gain a fair idea of the expense and also the benefits derived from such

"The Senior live stock students, who visited the International Live Stock Exposition recently held in Chicago, arrived in the city on the morning of Monday, Nov. 29th. Arrangements for securing rooms had previously been made at a comfortable and yet comparatively inexpensive hotel, conducted on the European plan. Morning and evening meals were secured at a nearby restaurant, notable for the excellent quality and preparation of the food supplied. The midday meals were secured either within the exposition gates or in the vicinity. Altogether the necessary daily expenses did not exceed \$1.75 per day per capita. The special round trip rate from Lansing to Chicago during the exposition week was only \$7.25.

"On Monday, the morning of arrival, the party proceeded at once to the Dexter Park amphitheater where the show is held, and were conducted through the various departmen's to get a general idea of the location of the various classes of live-stock and the rings where they were to be judged. After this the party broke up, each individual spending the remainder of the day alongside the ring in which he was most interested. Much interest was centered around the main judging pavilion where the long lines of red, roan, black and white faced cattle were contesting for the honors, some however, were to be found where the magnificent array of draft horses were being exhibited and others again at the sheep and swine rings.

On Tuesday morning the party visited Swift & Co.'s packing plant, where they saw all the processes of slaughtering, dressing, inspection, meat cutting and preparation for market. The various departments

in which all the by products were being converted into salable articl-s. Such as fertilizer, stock food, glue, soap, were also visited. The remainder of the day was spent at the ring side. The following morning the party visited the stock yards going first through among the carload exhibits of live stock and then into the yards where the buyers and sellers of butcher were transacting business. The next place visited was the "rally" in which feeders were offer d for sale. Considerable time was spent here in connection with the quality of live stock off-red and the methods of selling, weighing, yarding, shipping, etc. Visits were also made to the sheep and swine yards. During the three days' stay in Chicago most of the boys were enabled to see the operations of the stock exchange and vi-it some noted mercantile and industrial establishments. The trip was an exceedingly profitable one.

The Grand Trunk has agreed to furnish a straight \$5.00 rate this year, thus making the trip \$2 25 cheaper than last. Tickets do not have to be deposited on reaching Chicago. Admission will be provided for by the management of the Association. Rooms will be reserved for those who expect to go, so it is necessary that all names of those who go be in not later than Nov. 15. This rate is open only to Seniors and Freshmen.

### FARMERS CLUB.

At the last meeting, M. J. Dorsey very ably introduced the subject of "Handling the Hay Crop with the average Michigan Weather." He brought out many interesting points and a lively discussion followed. The next meeting will be held on November 1, at 6:30, in the Agricultural Building. Everyone is

Every eligible voter should go to the polls on Tuesday, Nov. 8 and cast his vote. It is your right and privilege. Students desiring to go home to vote will no doubt be granted an excuse. Those living in Meridian township will vote at Okemos, those in Lansing township at the town hall near Mt, Hope cemetery, southeast of the city, and those within the city limits as follows:

First ward-514 Franklin avenue

Second ward - first precinct, Judge Roe's court room, city hall. Second precinct, engine house

Third ward-First precinct, Geo. Dorr's blacksmith shop, corner Capitol avenue and Washtenaw street. Second precinct, Johnson's barber

shop, 616 St. Joseph street west. Fourth ward-First precinct, engine house No. 2.

Second precinct, Herman Rey's implement shop, Washington avenue north.

Fifth ward - First precinct, 104 Cedar street north.

Second precinct, Gilkey's awning

Sixth ward-First precinct, 3271/2 Washington avenue south. Second precinct, Henry Marks'

harness shop, Washington avenue Every person in the city desiring

to vote must register on either Friday or Saturday, Nov. 4 and 5. Besides the election of general officers on Nov. 8, City Clerk Gray gives out the following notice:

You are hereby further notified, that there will be submitted to popular vote in this county at the General Election, as required by Act No. 32 of the Public Acts of 1903, the question of ca'ling a convention for the purpose of making a General Revision of the Constitu-

You are hereby further notified, that there will be submitted to popular vote in this county at said general election, as required by Joint Resolution No. 2 of 1903, the question of the adoption of a prop sed amendment to Article Four of the Constitution of th's State by repealing Section 2 of said Article, which section limits the time for the introduction of bills in each House of the Legislature.

The following is a correct list of students entering M. A. C. in 1857. Sidney M Abbott, Farmington, Oakland Co. Gad M Adams, Chelsea, Washtenaw Co. Henry L Barney, Dowagiac, Cass Co. Adams Bayley, Big Beaver, Oakland Co. Leonard V Beebe, Stockbridge, Ingham Co. Isaac D Benham, Windsor, Eaton Co. Henry D Benham, Windsor, Eaton Co. Ransom M Brooks, Dearbornville, Wayne

Joseph Gilbert Bryan, Farmington, Oakland Co.

Harvey Bush, Fowlerville, Livingston Co. Russel B Callahan, Sanford, Ingham Co. Henry B Carpenter, Windsor, Eaton Co. William W Carpenter, Howell, Livingston Co.

Mason D Chatterton, Sanford, Ingham Co. Walter M Chester, Detroit, Wayne Co. Henry C Christiancy, Monroe, Monroe Co. Albert E Cowles, Lansing, Ingham Co. Henry N Curtis, Howell, Livingston Co. DeWitt C Cutler, Lansing, Ingham Co. Stephen W Duncombe, Keeler, VanBuren Co.

John A Elder, Lansing, Ingham Co. George C Everts, Grand Rapids, Kent Co. Charles E Farrington, Milan, Monroe Co. Thomas W Farrington, Milan, Monroe Co. Delos Flint, Novi, Oakland Co. Charles T Foster, Lansing, Ingham Co. Henry B Frost, Eaton Rapids, Eaton Co. Stephen Galloway, Hamburg Village, Livingston Co.

Alanson E Goodrich, DeWitt, Clinton Co. Solon E Grant, Jackson, Jackson Co. William M Greene, Lansing, Ingham Co. Josiah T Hammond, Jackson, Jackson Co. David E Hinman, Buchanan, Berrien Co. Charles E Hollister, Nebraska, Clinton Co. George P Humphrey, Sanford, Ingham Co. Horatio Ives, Unadilla, Ingham Co. Samuel L Kilbourne, Sanford, Ingham Co. Jared M Knapp, Bellevue, Eaton Co. Charles D Lewis, Lansing, Ingham Co. Henry G Lewis, Lansing, Ingham Co. Mortimer Markham, Gaines' Station, Genesee Co.

Orlando Markham, Gaines' Station, Genesee Co.

Charles J. Monroe, Lawrence, VanBuren Co. Nathan D Mussey, Romeo, Macomb Co. George O Nelson, Detroit, Wayne Co. Marcus H Peck, Pontiac, Oakland Co. Victor Phillips, Lansing, Ingham Co. William W Preston, Fredonia, Washtenaw

Co. Merritt C Skinner Lansing, Ingham Co. Merritt B Snyder, Hanover, Jackson Co. Enos S Stedman, Unadilla, Livingston Co. Ulysses Stedman, Unadilla, Livingston Co. Albern K Sweet, Burns, Shiawassee Co. James Taylor, Unadilla, Livingston Co. Seneca N Taylor, Oakland, Oakland Co. Griffin D Thurston, Sturgis, St. Joseph Co. George G Torrey, Birmingham, Oakland Co. Heman J Van Dusen, Novi, Oakland Co. Solon A Whitcomb, Detroit, Wayne Co. George N Walker, Sanford, Ingham Co. Webster A Wood, Livonia, Wayne Co.

Mr. and Mrs. T. J. Steele and son, of Peru, South America, are guests of Prof. and Mrs. Weil. The two ladies are sisters.

The Scrooby Club's reception for M. A. C. students on last Friday evening was a decided success. About 200 students were present to enjoy the music and games. Light refreshments were served.

Mrs. Mary Gilroy Skinner, with the class of '92 and her husband Dr. Skinner have been visiting Daisy Champion '93. They were on their way to North Carolina where Dr. Skinner has a lucrative.

Mr. J. H. Brown, '83-'84, was a visitor at the college last week. Mr. Brown was for several years associate editor of the Michigan Farmer, and is at present editor of the Rural Advocate, an illustrated monthly magazine published at Battle Creek.

At the Athletic Mass Meeting held last Friday night, an investigation was made of the charges made by Albion against the M. A. C. students. It was found that very few of the offences charged against us were really committed by our students. A few cases were found however and the association decided to make every effort possible to recover the property and return it to the owners at Albion.

Strong sentiment was expressed by the upper classmen against the practice of collecting "souvenirs' on such occasions and a move was made toward placing the punishment of such offenders in the hands of the Association.

The Association objects to having its teams suffer because of the recklessness of a few giddy students and they are preparing to handle all such cases in the future.

Schools and colleges may run to extremes on athletics and sports, just as folks do on eating, reading, and other good things, Sense is necessary in this as in anything. From some of the screeds against football it is very apparent that more sense is needed in presenting arguments. A favorite charge against the game is that so small a number of men is benefited by the exercise. Reference is frequently made to the "eleven" that get the practice. Don't these learned critics see that the high school would be ruled out of the school system by just such reasoning? The first team is but the graduating class. Look at the boys practicing, trying out, working in the gym, all along the line to the primary. As a good high school, inspires all the grades from kindergarten up, so a winning eleven puts snap into physical exercise all along the line .- Moderator - Topics,

Last Tuesday three new candidates were initiated to the secrets of the fraternity of Alpha Zeta. They were H. F. Tutle, '05, of Detroit; H. C. Oven, '05, of Dearborn and C. A. Willson, '04, of Clifford.

All afternoon the candidates were kept busy traveling the rocky road from A to Z and only reached their destination late in the eveni when they joined the fraternity in the enjoyment of a banquet feast.

Pres. J. L. Snyder acted as toast master. The following toasts were

Horticulture, Sense and Non-sense, Prof. U. P. Hedrick.

Pointers for Michigan Farmers, Prof. C. D. Smith.

Cheese It, F. O. Foster. When Reuben Comes to Town, J. W. Bolte. Reuben, P. H. Wessels.

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#### CAMPUS. ABOUT H E

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Born to Professor and Mrs. Dandeno, on Oct. 24, a girl.

Miss Grace Amos has been ill in the hospital for a few days.

Miss Durand, of Lansing, is employed in Prof. Shaw's office for a few weeks.

Prof. Smith spoke on last Friday before the Owosso Sugar Beet Co. at the factory.

J. H. Tryon, '08, was called home this morning to attend the funeral of a friend at Bay City.

We are glad to note that Mr. Rugg is still on the gain, being able to get around by the use of crutches.

A horned toad, brought from Flagstaff, Arizona, was recently presented to the department of entomology by C. H. Goetz.

The Sophomores are now taking drill regulations from five to six on Tuesdays and Thursdays. The class is held in the chapel.

Mrs. L. G. Holbrook recently received a visit from her mother and sister, Mrs. George French and Mrs. George Brown.

Prof. Barrows gave a lecture on "Birds and Bird Protection" before the Michigan Audubon Society at Detroit on the evening of Oct. 28.

The Thanksgiving Military is to be given on November 23, Thanksgiving eve instead of the evening of Thanksgiving, as stated last week.

Mr. G. Reeves, of the Bureau of Entomology, Washington, D. C., visited the Col'ege a few days last week. Mr. Reeves is interested at present in the Hessian fly and its damage to the wheat crop.

Prof. Smith is in Des Moines attending a meeting of the American Association of Agricultural Colleges and Experiment Station Work-

The work on Mrs. Newlon's new house on the Newman addition, is moving along nicely. Mrs. Newlon expects to be able to move in by the 15th of November.

Mr. J. W. Hutchins of Hanover visited his son Alem and daugh'er Edith on last Friday. Mr. Hutchins is a prominent institute worker and also editor of the Grange Department of the Michigan Farmer.

The Department of Drawing is in receipt of a representative lot of standard screws from the Detroit Screw Works. These will be used for illustrative purposes and class room work.

P. H. Wessels, '05, has been sent as a delegate from the Alpha Zeta fraternity of the College to the national meeting held in connection with the meeting of the American Association of Agricultural Colleges and Experiment Station Workers at Des Moines, Ia.

Mr. Malcolm McIntyre, who entered the five year mechanical course in 1900, visited the college the past week. Mr. McIntyre attended school in the east for two years after leaving M. A. C., but has been in the west (California) during the greater part of last year. He is unable to stand the cold winters of

Michigan on account of catarrhal

Miss Mamie Crosby, '02, of Washington, D. C., stopped at the College on last Thursday. Miss Crosby will spend three weeks at her former home in Oceana county and will again visit us for two or three days on her retu n to Wash-

Messrs. J. P. Haftenkamp, Fred Strong, H. F. Jordan, Sherwood Hindes and J. R. Lambert have been received into the Tau Beta Pi Fraternity. The first four named are members of the senior class, Mr. Lambert is a junior, and president of his class.

Edgar J. Wil-y was a student here in 1871-72, entering from Mason, Michigan. That was the last known of him till last week, when he made some inquiries with regard to growing potatoes. He is living at Sault Ste. Marie, where he is inspector of immigrants for the United

The Agricultural Department has twenty-four steers from the Chicago yards for feeding purposes. These animals average 958 pounds per head, and were purchased at a cost of \$3 80 per cwt. They will be divided into four lots, and fed and slaughtered for experimental purposes.

It is interesting to note the comparison in number of the present class in general elementary chemistry with the class in the early history of the college. Thirty years ago the class numbered 33 members.

This term there are 250 students in the same subject. Prof. Kedzie has in his possession the names of the 33 members etched on glass in Dr. Kedzie's own hand. Among the list is the name of Prof. Bemis, of Ionia whose daughter is now in

F. W. Dodge with 'oo, was a recent visitor to the College. Mr. Dodge has a position with the Pittsburg division of the Pennsylvania Railway Co.

The Baptist Young People's Union of the First Baptist Church tendered a reception to the M. A. C. students in the Sunday school rooms of the church last evening. The rooms were prettily decorated with bunting and M. A. C. pennants. About 250 young people were present. An interesting program was rendered. Light refreshments were served and a souvenir card presented to each one present.

Do not forget the lecture on Friday evening by Rev. Sam Jones. If you have not already secured your ticket better see to it at once. Mr. Jones recently lectured in the Light Guard Armory at Detroit and though it is stated that by some oversight the Armory was like a refrigerator, the several hundred people sat for an hour and a half and listened attentively to every word of his address. Wherever Mr. Jones lectures, the press has nothing but words of praise for him, and it is believed that this, the first number of our lecture course, will be one of the very best.

Among those who returned for the Themian party on Saturday evening were, Miss Katherine Slaght, '04, Miss Edna Smith and Miss Emma Barrett, '03.

A Brownie party for the children was given at the home of President and Mrs. Snyder, on Saturday evening. About twenty children were present to enjoy the music and games. Eating balls of popcorn hung from the ceiling was one of the amusing tests given.

At the meeting held in the chapel on Monday evening a good representative attendance of voters was present. Judge Cahill and Attorney C. C. Wood were the speakers and much interest was manifested in the issues presented. The main topic for consideration was the advantage of a primary reform law and the subject was presented in a very plain and forcib'e manner. The meeting closed with nine rahs for Ferris, Cabill and Wood.

Prof. Shaw has written a supplement to the Michigan State Grange Lecturer's Bulletin No. 8 on The Beef Industry in Michigan. Prof. Shaw deals with the following subjects:

1. Numbers of cattle in Michigan. According to the twelfth census, in 1900, Michigan possessed 812,503 cattle other than m lch cows valued at \$10,833,451. In this respect the state stands about 2cth among the states in the Union.

2. Development of the Industry. Comparison in numbers is then given, which shows that there were about five times as many catt'e in the state in 1900 as there were in 1850. Michigan has not kept pace with other states in the beef production owing largely to the diversity of interests found in the state, and also because conditions are not so well suited to the production of cheap meats as in many western states,

3. Introduction of the Beef Breeds. The Devon was first introduced about 1840; Shorthorns, in 1843; Galloways, in 1854; Herefords, in 1864; Aberdeen-Angus, 1884. In 1884 only about 19 per cent of the whole number of cattle in the state possessed blood of improved or pure bred animals.

4. Number of Michigan Breeders of Pedigreed Beef Cattle. Shorthorns are found in 56 counties in Michigan, the names appearing in the herd register being distributed as follows: Number owning shorthorns in Sanilac county, 59; Oak. land, 51; Huron, 39; Genesee, 27; Lapeer, 26; Tuscola, 26; Hillsdale, 25; St. Clair, 24; Branch, 23; Eaton, 20; Kent, 17; Livingston, 17; Jackson, 16; Ingham, 15; Clinton, 15; Calhoun, 14; Allegan, 13; five counties have 12 each, two have 11, two have 9, three have 8, two have 6, three have 5, four have 4, five have 3, three have 2, and ten have I each.

5. Lack of Uniformity in the Quality of Beef Cattle. In many of the common herds the type and color markings indicate the presence of the blood of not less than three and frequently four breeds intermixed. Sufficient feeders are not produced in the state to supply the demand, and many of them, on account of infusions of dairy blood, are unfit to supply any market demand unless it be that of local trade.

Causes of Lack of Quality in Native Steers. This is brought about by the practice of shifting

frequently from one line of meat production to another, or from meat making to dairying with the ups and downs of the market. While one may occasionally make a lucky hit by so doing, the practice is in general disastrous.

What to Look for in Purchasing Feeders. (1) Uniformity in breeding. (2) Uniformity in size, form and color markings. (3) Thriftiness as manifested by a mellow, pliable skin and soft, silky, oily hair. Valuable pointers are then given for the benefit of those who would purchase typical feeders.

Improvement of Beef Cattle by Breeding. The method suggested is that of up-grading. Decide upon the blood to be used in the improvement of the stock, and then purchase the best sire possible. from among the females on the farm those of the best type, discarding the poorer and purchasing better if possible. Do not in-breed. It is much safer to breed a herd than to

Can the Feeder Produce His Own Feeder Stock Profitably? By proper methods of feeding, steer calves can be raised on skim milk and made to attain weights at one year of age nearly equal to those suckled by their dams, leaving a profitab'e return from the butter fat removed from the milk. In support of statements made, weights of three skimmed milk and four nursed calves produced at M. A. C. during the past year are given.

Raising Skim Milk Calves for Beef. Under this head the following points are explained: Length of time the calf should have whole milk, substitution of skim milk, regularity in feeding, foods to be given in addition to milk, method of handling, method of feeding, size of pens, necessity of access to pure water and need of exercise.

Mr. G. C. Morbeck, '04 F., and Mr. L. H. Sanford of the same class, recently completed their work for the Forestry Commission. From Roscommon they went to Charlevoix, and from there spent nearly a week visiting points of forestal interest along the line of the D. & M. R. R., in the eastern part of the state, passes having been furnished by President Hawks, who is much interested in the subject of forestry, and expresses his interest in many ways. After the completion of the trip Mr. Morbeck returned to his home at Ingalls, to remain for a short time. Mr. Sanford called at M. A. C. on his way to Albion. He expects to start for St. Louis, soon, where he intends to remain at the fair until the close of the exposition, and may spend the entire winter in Missouri.

Miss Rachel Brightman, a graduate of Oberlin, has charge of the gymnasium work for girls at Alma.

Hillsdale is much interested in basket ball and it is believed they have the strongest team they have had for years.

Olivet is very much encouraged over football prospects, having won on Saturday from Alma by the close score of 6 to o. It is said that the two teams are about equal in weight.

Frank Lamerschmidt, a one legged boy sixteen years of age is said to be one of the best high school athletes in Ohio. He plays left tackle on the West High School football team of Cleveland, Ohio.

# In 1734 Poor Richard Said:

"Want of care does us more damage than want of knowledge."

Continue to pursue Knowledge like a Jap after a Russian, and to make assurance doubly sure, let the old MUTUAL BENEFIT take care from you, and for you and of you. It costs so little while you are young and strong; it means so much when you need it most.

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