

# The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 12.

LANSING, MICHIGAN, TUESDAY, OCTOBER 30, 1906.

No. 7

## A RARE OPPORTUNITY.

C. D. HURREY,

OF CHICAGO,

HERE FRIDAY NIGHT.

The students at M. A. C. are especially fortunate in having the privilege of hearing Mr. C. D. Hurrey, of Chicago, who is to be here next Friday night. Mr. Hurrey is one of the best speakers of the country in student work today. He has travelled throughout the south and west visiting the various colleges of the country and he is particularly interested in young men, devoting his entire time to work among college men. Those of us who know Hurrey can testify to his power as a speaker and to his intense interest and keen knowledge of young men and their needs. Not a man in the school can afford to miss this opportunity of hearing him. This meeting will be held in the chapel and is not for any particular body of men, but for every fellow in the institution. The meeting will not interfere with any other meetings of the evening, so let every man take an hour after supper Friday night and come and hear what a *young man* has to say to and for young men.

## THE JUNIOR TRIP.

In a drizzling rain twenty-nine Juniors, under the guidance of Prof. Sawyer and Mr. Polson, boarded the west bound Grand Trunk train at one o'clock last Thursday morning. The jolly crowd emerged from Polk street station in Chicago shortly before eight, hurrying toward a restaurant for breakfast. After breakfast we went to the Palmer House to leave our grips, order our rooms, and perfect our plans for the day.

As the city tug going out to the intakes accommodates only twenty, Mr. Polson piloted that number to the City Hall to join the men going out with the tug. There are in all five different intakes, three of which we visited. They are massive structures and, it would seem, capable of flooding the city. From the largest lead three conduit tunnels of seven feet diameter. The pumps in the pumping stations are on the level of the lake, or nearly so, in order that no power be needed to procure the water, the entire power being used to force it into the water mains at the required pressure. One of these stations we inspected after returning from the intakes. The pumps are gigantic engines each capable of pumping several million gallons a day. One soon becomes accustomed to massive machinery, when on a trip like this one, so that these great structures often lose their awe inspiring power. The writer has no doubt that if we possessed one of these huge engines half as high as our prided smoke-stack, if we had one here on the campus, we should be unable longer to entice excursionists into the museum.

Another of the great things which we inspected is the power plant of the First National Bank building. This building is devoted mostly to offices and for that reason is interesting for its electric, refrigeration, and elevator systems. The voltage must be maintained tolerably constant and great care is taken to have it so. The building is furnished with a water cooling system which supplies water at 38 degrees. Then there are two mammoth three cylinder cross compound, automatically regulated pumping engines, which furnish the elevator power.

It was also our good fortune to get behind the bars in the postoffice and to see the extensive and elaborate conveying devices, of which there are four. One is to transport mail bags to any desk and distributor on the floor by hanging the pouches on moving hooks; another consists of tin boxes carried about the rooms in troughs; a third is the belt system to elevate and transfer mail pouches; the fourth and most interesting is the pneumatic tube, which carries mail to and from the substations, railroad stations, and other important places.

We succeeded in visiting three representative power plants. The Harrison street station of the Chicago Edison Co. has the largest reciprocating engine of any we saw. It is run normally at 5,000 horse power but is capable of furnishing 8,000 in an emergency. Another large engine is connected with its dynamo by a rope drive. The Fisk street station of the same company is interesting because of its condensing turbines which are used exclusively by reciprocating engines. The engineer of the Metropolitan Elevated power plant was our guide in his plant and explained the parts in an intelligent and interesting manner. Engines which run normally at 75 turns are so overloaded at times in the evening that they run at only 50 turns.

Perhaps the most interesting engine that we saw is the original Corliss engine exhibited at the Centennial in Philadelphia but now used as the motive power for the Pullman Car Co. It is a double cylinder beam engine and will no doubt live to see another Centennial. The Pullman Co. do an enormous amount of artistic inlaying. The tiny pieces which go to make up the design are dipped in a hot sand bath to obtain the desired shading.

From the Pullman Works we went to the Illinois Steel Co.'s plant, which is by far the most extensive and most interesting of Chicago's manufactories. Entrances are guarded by special police, one of whom was our guide. He was one of those blank-faced, pug-nosed, typical Irish policemen, who do not know "which way is from them." Nevertheless we learned a few things from sight. An extensive system of narrow-gauge railroad furnishes the means of transporting the hot steel from building to building, inside of which it is handled by cranes. We were struck with the method of removing the scale from

plates while rolling, which consists of throwing a shovelful of salt upon the hot metal producing deafening, jarring, thunder-like peals as the plate passes between the rollers. In the stockyards we saw with surprise a man measuring heavy structural forms with a micrometer caliper.

All these surprises, all the awful machines waken in our aesthetic natures a sense of the sublime and afford to us an adhesive spot on which to fasten our memories when studying dry scientific books. Let us hope that we may again see dirty Chicago. It is fascinating.

E. S. MARTIN.

## FARMERS' CLUB.

The program for the Farmers' Club has been made out for the rest of the term and is as follows:

Oct. 31. Commencing Poultry Farming, J. G. Halpin.

Nov. 6. The Open Gate of Agriculture, Prof. E. E. Bogue.

Nov. 13. Dairy Interests in Michigan, Hon. Fred M. Warner.

Nov. 20. The Value of Manure, Walter Warden.

Mexican Farming, A. G. Palacio.

Nov. 27. Insects of Current Interest in Farm Crops, Prof. R. H. Pettit.

Dec. 4. Fruit in Mixed Farming, Hon. C. J. Monroe.

Dec. 11. International Stock Show, Seniors.

Prof. S. W. Fletcher spoke before the Farmers' Club last Tuesday on "Extension Teaching in Agriculture." He stated that when the agricultural colleges were established it was thought that a large portion of the farmer boys would gain a training in farming, while in reality not more than one in one thousand ever gets to college, so that if agricultural knowledge is to become general it must be spread by some other means as well; some of these now in use are: First, the experiment bulletins, which reach 500,000 homes every year; second, the Farmers' Institutes which usually lack in uniformity of purpose, and third, the reading course which is in vogue in fifteen states and is really an agricultural education by mail, the work being arranged in courses and lessons sent out each week. But by far the greatest good is being accomplished among the children, by placing nature study and junior gardens in our rural schools. The children take a real interest in their surroundings, not only in this, but just now there is a general agitation to place an agricultural course in the high schools, and there is a great demand for agricultural college graduates to teach such a course, especially in the rural high schools.

G. W. S.

Mail boxes, for the reception of letters, have been placed in the new hall, one on the first floor of each ward. This makes it very convenient for the fellows having letters to mail, saving them many trips down to the postoffice.

## ALUMNI.

<sup>'93.</sup>  
Announcements have been received of the marriage of William L. Cumings, of the above class to Miss Emily Josephine Johnson at Marquette on Tuesday, Oct. 16. Mr. and Mrs. Cumings will be at home after Nov. 1 at South Bethlehem, Pa.

<sup>'03.</sup>  
Messrs. Tower and West, both former students, and instructors in chemistry at M. A. C., were at Chicago recently for the Illinois football game and spent several days with some of the boys, among whom were Boyer, Ralph Stevens and Clem Ford. They are still with the Patton Paint Co., of Milwaukee.

<sup>'04.</sup>  
John Greenway with above class was married on Oct. 25 to Miss Ernestine Dimmick of Owosso, special student in 1903-04. The young people were married at the home of the bride's parents and left at once for Spokane, Wash., where Mr. Greenway has a position with the North Coast R'y Co.

A recent letter from Miss Marguerite Barrows, Northampton, Mass., gives the following notes on the inauguration of Kenyon L. Butterfield as president of the Amherst (Mass.) Agricultural College on October 17: "I had such a nice day that I want to tell you about it. I went over to Amherst at one o'clock and went to President Butterfield's house, and rode up in the carriage with them to the college campus. We watched the procession come across the campus between the double rows of students, all in uniform, and it was a pretty sight with the lovely hills in the background. Then I went with the president's family, and we sat in reserved seats, and I felt highly honored and pleased. The exercises were very nice and not very long. They announced all the distinguished guests, and the college boys cheered for each college, and did it well, too.

"President Fellows of Maine was there, the presidents of the Massachusetts Institute of Technology and Worcester Polytechnic Institute, Clark University, Boston University and the Connecticut Agricultural College. Also the Presidents of Smith College and Mt. Holyoke College, and then Dr. Edwards of Rhode Island Agricultural College. So you see there were really a number of distinguished men besides all the Faculty of Amherst College. President Butterfield made a splendid address. Afterward we all went over to a nice reception where they had lovely music and refreshments, and I met many of the dignitaries. Then I went back with May Butterfield and helped serve the lunch to President and Mrs. Butterfield's special guests from Rhode Island. I had a lovely time and a nice long talk with Dr. Edwards."



# THE M. A. C. RECORD.

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TUESDAY, OCT. 30, 1906.

## ATHLETICS.

### M. A. C.—NOTRE DAME.

The foot ball team accompanied by about 75 M. A. C. people left Saturday morning for Notre Dame. The train which should have left at 7:57 was two hours late so the team took dinner on the diner. Arrangements were made whereby a bus met the train taking the team direct to the field and after the game carried them back to the station for the return train which left South Bend at 6:00. All who accompanied the team were well repaid for the trip as the game was one of the most exciting and evenly matched ever seen on any field. M. A. C. gained more ground than her opponents and on a dry field would have won handily. The game was played in a pouring rain which rendered fast work impossible. The first half ended in a tie 0 to 0, but in the second their weight began to tell and near the close of the half scored a touchdown on a fluke, the ball rolling over the line into the crowd, a N. D. man falling upon it. M. A. C. was outweighed at least 15 pounds per man which told on such a day as Saturday. Aside from the touchdown scored the nearest N. D. got to our goal on straight ball was 20 yards.

There was not a time when they gained consistently and on the merits of the two teams (considering the day) the score should have been 0 to 0.

The game started by Dersnah kicking, and he sent the ball clear over N. D. goal. They kicked out from the 25 yard line and M. A. C. taking the ball about the middle of the field started down the line, gaining at least five yards to a clip and in five minutes had the ball on N. D.'s 20 yard line. A drop kick was tried, Small sending the ball straight and true, but it dropped just beneath the crossbar. Four times in this half M. A. C. carried the ball inside the 20 yard line and several drop kicks were attempted, but on account of the slippery ball, fumbles were numerous, which lost ground for our team. This half was all played in N. D.'s territory, our opponents only making one first down.

In the second half N. D. was favored, as we were in the first, by the wind. It was utterly impossible to get off a good punt, and the

playing was done mostly in M. A. C.'s territory, although we gained practically as much ground as did our opponents. The field, however, on account of the continued rain was growing worse and worse, which gave the big team the advantage and the ball was worked to our 20 yard line. They were held and punted, Small downing the ball on our 5 yard line. In an attempt to punt out of danger the punt was blocked and the ball fumbled. It rolled over the line and a N. D. man secured it, winning the game for the Hoosiers.

In Notre Dame's report of the game they called M. A. C.'s back field "an all star aggregation," stating that they put up the cleanest team work ever seen on the field. Certainly a large portion of honor is due our line who, although they were facing a line averaging 200 pounds, outplayed the big men at every stage, and time after time held their attempts at line bucks for no gain. It was the excellent work of this same line which prevented N. D. from scoring. All of the men came out of the game in good condition and ready for the next contest.

The line up:

M. A. C.		N. D.
Moore	C	Sheenan
Parker	R G	Munson
Wheeler	L G	Eggemann
Campbell	R T	Dolan
Dersnah	L T	Beacon
Burroughs	R E	Keach
Boyle	L E	Hutzell
Shedd	Q	Bracken
Small	L H	Callicrate
Bowditch	R H	Miller
McKenna	F B	Diener
Doty		

#### RESERVES WIN.

The second team won handily from Olivet's Saturday by the score of 10 to 0. Twenty-minute halves were to be played, but Olivet quit at the end of 10 minutes play in the second, the down pour making things very disagreeable for everybody. This is the third consecutive game won by our second team so they have yet to find a team that can down them.

#### ALBION COMES SATURDAY.

The Albion game is always looked forward to with a great deal of interest and as they are making claims for the championship this year, this game will be one of the most critical of our state college games. We have gained a place among the best secondary schools in the west by defeating DePauw and playing N. D. to a standstill; but it still remains to be seen whether we are any stronger than our own state colleges.

Athletics in all our colleges are just about as good as any of the above mentioned secondary schools, and our coming games with Albion, Alma, Hill-dale and Olivet will all be as hard fought as any yet played. Albion always gives us the fight of the season, and they are coming up this fall with a delegation and a determination to win back the laurels they lost last year. We ought to be in the best condition as we came out of the N. D. game in fine shape, and Frazer and Allen, who were on the hospital squad last week, will be in the game on Saturday, and if nothing happens we shall be able to face Albion with our full strength in sight.

Mr. Krentel is now placing stalls in the new horse barn, the cement floor in which has been completed.

## DEBATING CLUB.

*Resolved:* "That United States Senators should be elected by popular vote." This popular and vital question was emphatically decided last Thursday night at the regular meeting of the club. Had "Billy" Smith or Charlie Townsend been at the meeting, the futures of Messrs. Hopingartner and Burrell would certainly now be decided; nothing but the Senate via the machine route for the two young orators. Though the audience contained none such smooth and polished actors of the political arena as the above gentlemen, yet a goodly number of our numerous faculty were there, all appreciation.

In the eyes of the good sized audience, it was anybody's debate until the last two minutes of the course, when the negative took the head and finished a 3 to 0 winner, if the decision of the judges may be taken as proof positive. The affirmative, upheld by Messrs. Rodegeb and Tower, should be given credit for a game fight, however.

The question for the coming Thursday night should tax the capacity of room seven to the limit. Everybody must have an opinion upon the Cuban Annexation question; and if not, the four young men, scheduled to pass out the information, will certainly formulate some.

## BASKET BALL.

The outlook is certainly very bright for basket ball this year. All of last year's squad have returned, and many new men who have won prominence as players in their home towns are showing up. The applicants number about 40, and the strife for positions will therefore be very keen. In view of this fact that we ought to have the best team ever at M. A. C., which is certainly putting it strongly. The schedule is coming along nicely, and will be completed in a couple of weeks. It is safe to say, however, that we will have one of the most satisfactory schedules ever presented. Our game about January 10 will open the basket ball season, which promises to be a successful one.

## FARMERS' INSTITUTE.

The Michigan Normal Farmers' Institute will be held at the College again this year. The sessions will be held in the chapel on Nov. 20-23. The institute will be primarily for institute lecturers in order to enable them to better carry on their work, but the public is invited to any and all sessions. Topics of general interest to the farmer will be discussed and several outside speakers have already been engaged, including Hon. C. W. Garfield, Com. Earle, Deputy State Supt. French and Colon C. Lillie. One of the questions taken up will be the methods of handling institutes from the speaker's standpoint.

## A SEEDY LOT.

In the following list notice that one word ends in "sede," three in "ceed" and all the others in "cede."

recede	exceed	accede
intercede	supersede	secede
proceed	succeed	anteced
precede	concede	

—Moderator Topics.

## AN AUTOBIOGRAPHY.

I was born July 4, 1886, and have lived in farmers' style for the greater part of the past twenty years. During my first three years I did most of my mischief, for it was during these earlier days of my childhood that I tried to do everything that ought not to be done.

I pushed the baby off the steps and broke his wrist. I set the dog on the neighbor's pig and it died. But of all the mischief the greatest was my reducing two large farm barns and one post barn to mere ashes. In one way this was my fault, while in another it was father's fault. For he told me to catch potato bugs and when I had a pan full I could burn them. I burnt them each and every one. Father realized only too well whose fault it was, for he never said a harsh word to me about it nor punished me.

I began my school life when I was seven years old, but I could not talk a word of English and so of course could not understand the teacher. In spite of my English troubles I passed into the first grade at the end of the term. This was the only full school year I ever saw, for every fall and spring since that year I have had to stay at home and work on the farm.

I usually began school the first week in January, and staid till about April first or 15th. It was very hard for me to do as much from January to April as the others did from September to June; but I left some of my schoolmates behind, even if they did have more time. Of course I had to do some studying evenings, both when I went to school and when I worked on the farm.

The last seven years of my school life were a little easier, for my instructor kept a night school every Monday and Friday night. I attended these, and was much benefited by them. I passed into the eleventh grade and had about one month's work in it; that is, in the night classes. Then I started in the County Normal.

Here I had to make a change, because I had to promise that on no other condition would I remain out of school but sickness. Father told me I could enter if I wished to, but I must bear in mind that I would have to do all the chores so that the rest of the hands could stay out later and get out earlier. I had 24 cows to milk and 6 horses to feed. This meant to get up at 3:30 and not to be very slow when you were up. But I was relieved on all sides by my brothers. My oldest brother took care of the horses most of the time, while one helped me milk.

I passed the County Normal work with an average standing of 88 per cent. It could have been better; but it was hard earned as it was. In spite of my work I was never tardy or absent during the term of 36 weeks. I lived two miles from school. In summer it was a delight to travel the school road, but in winter it was the opposite.

On August 16, 1905, I began teaching school in a rural district. I had a school of 63 pupils when all were present. On September 19, 1906, I entered the Agricultural College as a five-year mechanical student, and it is in one of my classes that this autobiography is required.



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**ABOUT THE CAMPUS.**

Instructor Myers was ill with tonsilitis a few days the past week.

Jesse Boyle, '08, spent Saturday and Sunday at his home in Glendora.

Robert Snyder, who has been ill for a couple of weeks, is around again.

G. N. Root, '10m, spent several days at his home in Adrian the past week.

The *College World*, Adrian, has been changed from a bi-weekly to a monthly.

A. G. Smith, '10a, spent Saturday and Sunday at his home in Greenville, Mich.

Mr. and Mrs. Bassett, of Illinois, are spending a few weeks with their daughter, Mrs. J. Myers.

Miss Lutie Eby, a teacher in the South Haven schools, visited College friends Saturday of last week.

Instructor Foster and class in advance dairying visited the Williamston Creamery Saturday.

President Snyder and Dr. Blaisdell attended the State Teachers' Association held in Battle Creek the past week.

Prof. Fletcher gave a talk on the planting and care of rural school grounds at the state teachers' meeting last Saturday.

The words of a song to be used in the M. A. C. game appears in the *Albion Pleiad*. M. A. C. will furnish the music.

J. D. Kenney and wife of Port

Huron were the guests of their son, Cashier Kenney, and family Friday and Saturday.

Prof. Bogue, as secretary of the State Academy of Science, is issuing the second number of the fourth volume of the quarterly bulletin.

Prof. Jeffery attended a meeting of the board of directors of the Michigan Corn Improvement Association held at Jackson last Saturday.

Women students, who took sophomore vegetable gardening last spring, are requested to call at the Hort. laboratory this week for note books.

Mr. Hardup—"I hope the flowers I sent you to wear at the ball came on time?"

Miss Butting—"No they didn't. They came C. O. D."—*Ex.*

The State Sunday School Association holds its 46th annual convention in the First Methodist Episcopal church, Jackson, on Tuesday, Wednesday and Thursday, Nov. 13, 14 and 15.

Mr. W. Lamoreaux, with the Ducktown Sulphur, Copper and Iron Co., Isabella, Tenn., has been spending his vacation by taking a trip through the west and is again settled into the harness at the above place.

B. G. Egerton was in C. G. Conn's factory at Elkhart, Ind., Saturday to buy new instruments for the band. One of those bought, a magnificent helicon, model giant E flat four valve bass, is one of the best, if not the best, of its kind in

the state. It will be played by N. J. Hill.

Sunday evening there was a family gathering of brothers and sisters of the college in the Dean's rooms in the Women's building. After an informal luncheon the group withdrew to the parlor and joined the young ladies of the house in Gospel songs. It may be of interest to know that there are thirteen brothers in residence at the college.

There are 57 Experiment Stations in the U. S. Of this number eight, or about one-seventh, are under the directorship of M. A. C. men. The men are C. C. Georgensen, '78, Alaska; L. G. Carpenter, '79, Colorado; L. A. Clinton, '89, Connecticut; H. T. French, '85, Idaho; E. Davenport, '78, Illinois; E. A. Burnett, '87, Nebraska; L. H. Bailey, '82, New York; C. E. Thorne, with '70, Ohio.

The attention of our readers is called to the fact that in the spring of 1907 the junior class will publish an annual which will be called the Jubilee Wolverine. The class wish to collect as many original articles and college jokes as possible. The use of the RECORD boxes has been kindly donated for this purpose and such articles will be gratefully received. Please label such contributions "Jubilee Wolverine."

Mr. M. A. Byrnes, of Philadelphia paid the college a visit recently. Mr. Byrnes has been interested in forestry for over three years and investigated the subject by securing catalogs from the various in-

stitutions. After a careful study of these he decided that M. A. C. was best suited to his needs and his visit only confirmed his first impressions. He expects to enter for forestry next Sept.

Bulletin No. 240—"Roots Supplementary to Silage for Dairy Cows," by Prof. Shaw and Instructor Norton, has been received from the press. It was found that the addition of roots to an already complete ration for the dairy cow stimulated both milk and butter fat production, but the cost of the added ration was raised to a degree that lessened the profit of production. In making records roots may be used to advantage. The percentage of butter fat in the milk was constant whether with or without roots.

Some of the interested ones gathered at the Botanic Laboratory October 16, and organized a Nature Study League, the object of which is to give instruction in nature subjects and to stimulate interest in this work. It is the policy of this League to keep in touch with all members who are absent from M. A. C., so that the members of all local organizations may gain from their experience in Nature Study. Dr. Dandeno was elected President, Miss Benham, Vice-President, Miss Lunn, Treasurer, and E. P. Robinson, Secretary. The meeting October 23, was well attended and much interest was shown. Mushrooms was the general topic considered. All those interested are invited to come to the meetings of the League held each Tuesday evening at 7 o'clock.



Prof. Taft is arranging for a number of demonstration meetings in spraying for the San Jose scale with sulphur and lime, in several townships in Kent county. These will be in charge of Mr. T. A. Farland of Eaton Rapids, formerly of the South Haven Station. This will be continued during the fall and arrangements can be made for similar demonstrations in any township where the San Jose scale has appeared upon request of five fruit growers who will look after the local arrangements and have the meeting advertised.

The Linkletter brothers have completed their work in photography and left last week for their home in Benzonia. They will spend a week or two there and then take a trip through the west, stopping at Idaho, Oregon and Washington states. The boys while here took nearly 100 views of the campus, which are to be used in the semi-centennial publication. Competent judges regard these as among the finest photographs that have ever been made of our grounds, and the work done for the committee having this matter in charge is entirely satisfactory.

With '06.

Born, to Mr. and Mrs. Geo. S. Pike, of De Witt, Mich., on Sunday, Oct. 21, a son. Mr. Pike was a student at M. A. C. in 1902-3.

'06.

The first member of the '06 class to make the matrimonial venture is Frank N. Grover who was married on Oct. 17 to Miss Blanche Curtiss of Emerson, Mich. Mr. and Mrs. Grover will be at home to their friends after Jan. 1 at Cadillac where Mr. G. has a position as assistant city engineer. Congratulations Frank.

## JUNIOR ANNUAL.

Arrangements have been made whereby all matter pertaining to the new annual may be dropped into the boxes marked "Record," found in the various halls. On Monday this matter will be collected and turned over to the one having charge of the publication. All matter should, of course, be signed and marked plainly whether for RECORD or Annual.

This has been done with the thought that it would simplify matters for those who might contribute to the Annual and yet who would not feel like hunting up Mr. Carr or other members of the staff when such contributions were ready. Just mark it plainly, drop it into the boxes and it will be safely delivered to the proper person.

## HORT. CLUB.

Mr. M. L. Dean, of Napoleon, Mich., gave an interesting talk before the Horticultural Club last Wednesday evening. He spoke about the fruit conditions in different parts of the U. S. and also about the appearance and condition of fruit at St. Louis. Next week Hon. Charles W. Garfield, of Grand Rapids, President of the Forestry Commission, will give a lecture on "An appreciation of Prof. L. H. Bailey, with Horticultural Reminiscences."

## FARM DEPT. NOTES.

### STOCK SALES.

A large sale of market hogs has recently been made to Mr. J. G. Reutter of Lansing, consisting in all of 26 head, including a large number of the best animals that were shown in the M. A. C. educational exhibit at the Michigan fairs.

There has been a great demand for breeding sheep during the present season. The surplus stocks from the college flock have been quite largely sold, purchases having been made by the following parties:

Shropshires—Ed. Commiskey, Howell; Lafayette Waters, Fremont; F. H. Clements, Lansing; M. A. Crosby, Hart; Frank McClung, Marion, and F. J. Chapman, Novi.

Hampshire sales to Dr. Millis, Fowlerville; James Smith, Eaton Rapids, and S. R. Towner, Perry.

Cotswold and Lincoln sales to Miss Jennie Bigelow, Okemos; T. Babcock, Royston; C. S. Worden, Webberville; Geo. B. Pardee, Galien, and O. M. McKay, Corunna. Rambouillets to A. S. Bliss, Lansing.

There are still one or two yearling Shropshire rams and a few Southdowns and Dorsets for sale in addition to a flock of six Delaine Merinos and one ram.

### FENCING.

The work of constructing yard fences for handling the stock around the barns has been nearly completed. These have been put up in a very substantial way, mainly consisting of 2x6 inch hemlock, built on cedar posts. This style of fence, though expensive, has been selected on account of the fact that an extremely strong, durable fence is required around small yards where large numbers of cattle are yarded for long periods during the winter season.

### FARM MECHANICS.

The students in the above work are now receiving a thorough training along the line of handling gasoline engines. There are now seven engines installed, six of which are of Lansing manufacture and a seventh a two-cycle Eli engine manufactured at Moline, Ill. There are both horizontal and upright engines in the lot, air cooled and those cooled by water. In power they range from 2½ to 8 horse power. The boys are taught the various parts of each engine, naming them by placing a tag upon each. When familiar with each they are given sets of questions upon general uses etc., and are taught to set up, connect and run each as it would be run on the farm.

These classes also have lectures on cement construction work, different kinds, proper proportions, etc. In laboratory, tests of various kinds of cement are made for strength and fineness. The samples are tested according to regular specifications for cement. It is hoped a little later to give some practical work in the building of walks.

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