

The M. A. C. Record.

VOL. 5.

LANSING, MICHIGAN, TUESDAY, MARCH 27, 1900.

No. 27

Some of My Pets.

I have to report to the RECORD readers that the famous cow, Rosa Bonheur 5th, with a record of 106¾ lbs. of milk in one day, and the world's week's record, also a month's record of 2,989½ lbs. and 96 lbs. butter, also College Rosa Bonheur, with a record of 14,171 lbs. of milk in a year, and 529 lbs. of butter as a two-year old, are each nursing a fine male calf. These calves should both be herd headers, sired as they are by Colantha Lad, whose dam has a record of 24½ lbs. of butter in seven days. Michigan breeders of Holsteins should not miss this opportunity, as they are as good individuals as there are in the State if not in the Union.

We have sheared three Shropshire buck lambs with an average of 10 lbs. per fleece, while one Dorset gave a clip of 6.3 lbs.

"DICK."

Peach Buds at South Haven.

At a meeting of the South Haven Pomological Society, Tuesday, March 13, a number of fruit growers reported upon the condition of the peach buds in their orchards. According to reports given, from about ten to fifty per cent of the buds are dead, but all who reported claimed there are still enough live buds left to give a full crop on most kinds, and some varieties will probably require considerable thinning. Hills Chili and Elberta were mentioned as in especially good condition, so far as freedom from dead buds is concerned; while Kalamazoo, Smock and St. Johns, were reported to be among those which make the poorest showing.

At the Experiment Station where some two hundred varieties are on trial, twenty-eight have been examined. About three-fourths of these show plenty of live buds for a crop, while in the case of the remainder the yield will doubtless be light. The list of varieties examined, showing the per cent. of buds alive, is given below. It includes some of the old standard sorts and a number of the newer varieties.

Alexander 54, Barnard 34, Bokara 54, Brunson 74, Brown 80, Champion 14, Connecticut 34, Crosby 80, Early Rivers 60, Ede 94, Engle Mammoth 74, Gold Drop 80, Jersey Yellow 27, Kalamazoo 60, Lemon Free 47, Lewis 80, Longhurst 87, Lorentz 20, Marshal 60, New Prolific 67, Salway 34, Sneed 94, Stevens Rare Ripe 47, St. John 14, Switzerland 74, Triumph 67, Willett 80, Wonderful 14.

Some fruit growers are a little surprised to find so many dead buds in their orchards this spring, since the temperature in this locality hardly fell below zero at any time during the winter. But it will be remembered that during October and the greater part of November the weather was very mild. This caused the buds to swell, and with the advent of cold weather more or less of them died, quite likely because of their advanced and tender condition.

S. H. FULTON.

He Gives Them Gas.

The following letter describing the method used in Illinois, in fighting the San Jose scale, will be doubly interesting to the readers of the RECORD, as the writer, E. C. Green, '97, is personally known to many of them.

Soon after graduating, Mr. Green went to Illinois to take charge of the spraying operations against this insect, under the direction of Dr. S. A. Forbes, State Entomologist. In September, 1898, he became demonstrator in insect anatomy and lecturer in economic entomology in the State University of Illinois. During the summer vacation, in 1899, he acted as horticultural inspector and assistant to the State Entomologist and inspected the nurseries in the northern part of the state. As will be seen from his letter, he now has charge of the work of treating

is then pulled to the top and there fastened. A strong pull on the guys now sweeps the tent over the tree, and, after the ropes are detached and the tent skirts drawn in, the tree is ready for fumigation. A common china vessel is used for a generator. In this are put twice as many fluid ounces of sulphuric acid as there are hundred cubic feet under the tent and a like amount of water. Cyanide of potassium crystals, in sufficient amount to make a .2 per cent. gas are then dropped into the dilute acid. Forty minutes is considered the right amount of time to leave the gas beneath the tent.

"Although his gas is very deadly, no serious accident has occurred in its use. My foreman stopped under a tent a moment too long one day and spent the succeeding hour sitting on a rolled up tent near by, with his head in his hands, as though engaged in deep and serious reflection. The

chance to retract. Next morning I received word from the gentleman to come ahead. His place was treated without further annoyance."

E. C. GREEN, '97.

Farm News.

In the Soil Physics laboratory, Prof. Jeffery has recently added to his equipment a set of six brass soil sieves with a range of mesh running from six to one hundred per inch. Two new gravity cells have also been secured for experimenting with regard to the effect of mild electric currents upon the germination, growth and fruiting of cereals and garden crops. Prof. Jeffery is busy just now preparing for his address before the Agricultural Section of the Academy of Science. His topic will be "The New Method of Mechanical Soil Analysis."

The student work in the dairy is completed for this college year. The Sophomores who finished on Thursday did remarkably good work.

The plans for the new dairy building which have been under consideration for some time, are practically ready for the contractor. The elevations show a very pleasing exterior, standing upon the commanding site between the Botanical and Agricultural laboratories. This building promises to be one of the most attractive on the campus.

J. J. F.

Experiments on Muck.

The Agricultural Department of the Experiment Station is planning experiments to be conducted on some of the marsh or muck lands of the state. Three or four localities are being considered for this work and the plan will follow in the line already under way in Field 13 on the College farm.

This experiment so far indicates that these muck lands are benefited by any application which will supply the mineral elements of plant growth. Ashes, leached or unleached, sand, and potash in any form have given encouraging results. Stable manure has given the largest yields, while a home mixed fertilizer has improved slightly the weight of product. Air-slaked lime has so far given very indifferent results, though three tons produced a higher yield than one ton.

The Station will yet consider one or two more localities for the conduct of muck experiments. The Experiment Station will plan the work, furnish the fertilizers, superintend their application and furnish instructions for planting, cultivating and harvesting the crop. The farmer to furnish the stable manure and the seed, except beet, and have the crop after the experiment is completed.

Some of the soil test experiments begun last year will be continued the coming season.

J. D. T.

A recently discovered copy of the first folio of Shakespeare, sold in London for \$8,500. It comes from Belgium, and has been out of England for two centuries.



FUMIGATING WITH HYDROCYANIC ACID GAS.

orchards infested with the San Jose scale, with hydrocyanic acid gas.

"At present, I have charge of the field work against the San Jose scale. Three gangs of men have been at work during the winter. Two spraying outfits are thus managed, and one tent outfit for the treatment with hydrocyanic acid gas. The latter is the newer method and proves to be more interesting, more thorough and more costly than the former. The gas treatment used here is similar to that in California. What is known as the 'sheet' tent is used. This is a piece of 8 or 10 oz. duck, oval in shape and painted with boiled oil to make it gas tight. There were in the field at one time 37 tents of this sort and ten 'teepee' tents. The 37 are of three sizes, 20 are 28 x 32 ft., 10 are 40 x 48 ft., and 7 are 50 x 60 ft.

"The tents are lifted over the trees by means of poles, ropes and pulleys. With the smaller tents one 16 ft. pole will lift the tent high enough to cover a tree of its capacity, but with the larger tents two longer poles are necessary. In the latter case the poles are set one on each side of the tree, the bases on a line with the trunk. The poles lean toward the side on which the tent lies, being steadied by means of guy ropes. Ropes running through pulleys at the top of the poles are tied to the edge of the canvas, which

next hour he wanted to quit the work entirely, but I finally prevailed on him to remain with us.

"The San Jose scale law of Illinois requires the State Entomologist to treat infested orchards once, free of charge, and hindrance offered the work may be punished by fine or imprisonment. At one place a man, on being informed that his orchard was infested, became very violent and gave me a very short and lucid account of what he thought of the whole San Jose scale business. I was obliged to tell him that I should be there Monday morning to treat his trees. He said, 'I'll be there, too,' shook his head twice and looked very ferocious. Sure enough Monday morning he was there according to program, and I had hardly entered his yard before out he bounded, and, with face very red and arms wildly gesticulating, he ordered me from his place. He gave quite an eloquent address to the men with me on being a sovereign American citizen and defending his trees from irreparable injury, and also, he made some direct personal allusions to me, and as to my final termination. Later, I swore out a warrant for his arrest and arranged with the State's Attorney not to have it served until he, the attorney, should have written Mr. X. stating the situation and the probable outcome and giving him a

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Two Apple Cankers.

During the past two years, Prof. Wendell Paddock, '93, Assistant Horticulturist of the New York Experiment Station, and Prof. A. B. Cordley, '88, Entomologist of the Oregon Experiment Station, have been independently studying what the fruit growers of New York and Oregon have known as "apple canker." Careful examination of the infected trees has convinced them that the western form of the disease is quite distinct from the one that is found in the east, and that both are due to fungi.

Prof. Paddock has submitted the results of his investigations as a thesis for a Master's degree. They have also been published as a bulletin by the New York Experiment Station and in the Proceedings of the Western New York Horticultural Society, besides numerous periodicals.

NEW YORK APPLE CANCKER.

The New York apple canker is caused by the same fungus as produces what is known as "black-rot" of the fruit, and is also found upon the pear and quince. Its presence is indicated by "the swollen appearance of the limbs, the rough, black bark, and in many instances the bare, black and decaying wood. The fungus usually gains entrance to the cambium through wounds in the bark, which is marked with numerous pits and scars that are more or less circular in form. These infected spots first appear as small depressed areas of dead bark with definite outlines, on limbs that may otherwise be smooth. The fungus spreads through the heart wood and by destroying the tissues interferes with the flow of the sap. In severe cases the limb is completely girdled and when a large branch is affected the result may be disastrous."

The fact that canker and black rot are caused by the same fungus was shown by cross-inoculations.

Prof. Paddock advises thorough spraying with Bordeaux mixture as a preventive and remedy for the disease.

APPLE TREE ANTHRACNOSE.

Prof. Cordley gives the results of his study of the Oregon canker in Bulletin 60 of the Oregon Experiment Station, a copy of which has been received for the Alumni Library.

The Oregon disease appears in

the fall as small, irregular, and sometimes slightly depressed, brown areas of the bark. During the fall and winter months it spreads but slowly, but with the advent of warmer weather in spring, growth takes place rapidly, until under favorable conditions the disease may invade an area of several inches in diameter.

Such areas ceased to enlarge late in May, and early in June the first evidence of spore formation was noted. At that time the diseased areas were dark brown in color, markedly depressed, and in most cases limited by ragged, irregular fissures, which separated the dead from the living tissues. These spots varied in size from those not more than one-half inch in diameter, to extensive areas two or three inches wide and six or eight long. Occasionally a single area completely girdles a branch, thus killing at once its distal portion, but more commonly a dark spot occurs from which in the course of a few months the bark sloughs off, leaving an ugly wound, which requires several years to heal.

The investigations of Prof. Cordley established the fact that the disease is due to a fungus to which he gave the name *Glaeosporium mali-corticis*. The spores of this fungus are developed in small conical elevations of the epidermis of the diseased areas.

By inoculating healthy branches with cultures of these spores it was demonstrated that the disease is caused by the fungus.

Prof. Cordley was not able to conduct any experiments in controlling the disease, but as similar fungi can be held in check by the use of Bordeaux mixture and other copper compounds, he believes that this disease will also yield to them. The bulletin shows a large amount of careful and systematic work, and Prof. Cordley has done a valuable service not only to science, but to the horticultural interests of the Pacific coast.

A Reverie.

READ BEFORE THE UNION LITERARY SOCIETY BY H. P. WEYDEMEYER.

In the summer when you have become weary of the worries and cares of your professional or business career, and feel that life is not worth living, take a trip into the forests of this State and you will return, glad that you are able to labor and live.

You leave the train, hire a man to haul your camping outfit, and travel all day along roads seldom used until miles and miles from any habitation. The very immensity of the jack pine forest around you arouses fresh wonder and awe within you each hour, and when at last you have reached your destination the vastness and wonders of nature have taken firm hold upon your mind. You pitch your tent upon a knoll in a cedar swamp, upon which stands a score or more of majestic pines, that have not as yet fallen prey to a lumberman's greed. You are tired after the work of settling the camp, and lie down upon the luxuriant growth of moss, the vast blue sky above you, the forest all around you; to the right, to the left; there is nothing but forest in front and only forest behind. Then it is, that the sublimity of your surroundings takes possession of you and you think how great

are the works of the creator and how insignificant are those of man.

The next morning you arise early and climb to the top of the highest ridge, in order to enjoy the glories of a summer sunrise, unobscured by the smoke and haze of a town or city. How wondrous it is; first appear the rich and varied colors in the sky, colors such as nature only can produce; then the sunshine comes stealing over the hills and tree tops until, finally, the whole forest is aglow with brightness. As far as eye can see, there is that endless stretch of green foliage, broken only here and there by a miniature prairie, the tall and barren stub of a once beautiful pine; like a vast sea dotted here and there with rocky islands and the naked spars of an abandoned ship. An eagle soars high overhead, ready to pounce upon the first timid hare that comes within the range of its piercing eye; a blue jay screams defiance from a neighboring pine: from a sturdy oak comes the chattering and scolding of a red squirrel you have disturbed, and perhaps if you look sharp enough you can see a graceful doe and fawn stealing cautiously along the valley beneath you. You go back to camp marvelling upon the goodness and greatness of God, at peace with the world and with a wonderful lightness of heart. Breakfast and your companions are awaiting you, and you greet them with a smile and a cheery "good morning," thinking how good it is to live.

In the evening when the sun has descended into the forest and the moon has risen, clear and bright, casting a halo about the tops of the trees, while underneath all is weird and ghostly with dark shadows, you go out under the tallest pine, lounge lazily upon a bed of moss and meditate. Ah, how uneasily conscience stirs in those beautiful, silent nights of the forest, as past memories and forgotten resolutions fly over you like the fleet-winged owl that passes over your head so silently. But that self same owl has alighted near you and soon you hear his mournful whistling, seeming to chide you for your neglected duties and lost opportunities, until you rise up in anger and drive him away. But the thoughts are still in your mind and again you fling yourself down upon the moss, vainly endeavoring to check the surge of bitter recollections, but you are like a wrecked ship tossed upon the billows of the sea and there is no rest.

After a while a sound breaks the stillness of the forest, you look up and see a deer watching you with startled eyes; you lie still, and, seeing you mean no harm, it walks on beautiful and stately. You watch it until it disappears in the shadows of the pines, meanwhile thinking how innocent are God's creatures and how great are God's creations, and your thoughts take a different trend than before. Are we not God's creatures and God's creations, are we not capable of being innocent and great if we allow Him to work His will within us? You begin to think of the future, what opportunities there are before you, and make resolutions as to how you will grasp them, and above all you resolve to become a grand and good man. You look up to the sky, the moon seems brighter than before, the leaves of the trees rustle as if in approval of your thoughts, and a star shoots across the sky seemingly to register your vows on high. The

growing dampness of your couch warns you that it is time to go inside, and you retire to your bed of boughs to dream sweet dreams of life and eternity.

Shop Notes.

Six or seven students are busy this week assisting in putting everything in readiness for next term's work.

The following notice has recently been posted in the drawing rooms: "The Department will preserve students' drawings for one term only after that in which they are presented."

B. P. Smith, with '00, has recently arrived from Manistee, and is making his headquarters at the Mechanical Building. He is at present engaged upon the steam heating plans of the Women's Building.

Michigan Academy of Science.

The State Academy of Science of which Prof. Barrows is secretary, will meet at the College Thursday and Friday of this week.

Among the papers that will be presented are the following: (1) Unsolved Problems in Michigan Forestry, (2) Damage to Young Trees by Deer and Elk, (3) Syllabus for Short Course on Grasses and other Forage Plants, Dr. Beal; Bounties for Noxious Animals, Prof. Barrows; A New Method for the Mechanical Analysis of Soils, Prof. Jeffery; Infectiousness of Milk from Tuberculous Cows, Prof. Marshall; The Scale Insects (Coccidæ) of Michigan, Prof. Pettit; (1) Four Interesting Fungi, (2) Two New Species of Michigan Fungi, Mr. Longyear; Classification of Minnows, Mr. W. T. Shaw, *sp.*

The names of Prof. Spalding of Ann Arbor, Prof. Barr of Albion, Dr. H. B. Baker, Dr. Cressy L. Wilbur, Hon. L. C. Storrs, Dr. A. C. Lane and Hon. Frank Wells, of Lansing, and several others appear on the program.

Intercollegiate Football at Harvard.

CONTRIBUTED BY W. J. B.

"Intercollegiate football for young men who have joined the University causes a grave interference with their studies at the worst possible time, namely, at the very beginning of their University career. The injury which members of the Freshman football teams suffer is plainly to be seen in the following table:

Year.	No. of Men.	No. in Grades.*				
		A	B	C	D	E
1898	21	8	5	23	39	20
1897	22	0	17	44	38	13

* Each study is graded separately.

"In all sports it is desirable to develop some agreeable local competition, so that a large number of crews and teams may always be in practice; to develop a wholesome and interesting competition at home.

"It is still a matter of doubt whether the intensified games which mainly interest the public have a good physical effect on the players.

"The principal benefit of athletics accrues to the hundreds of students who play wholesome games and take vigorous exercise without ever being heard of in intercollegiate contests."—Report of President Eliot [Harvard] for 1897-98.

When Newton saw an apple fall, he found,
In that slight startle from his contempla-
tion—
'Tis said (for I'll not answer above ground
For any sage's creed or calculation)—
A mode of proving that the earth turn'd
round
In a most natural whirl, called gravitation;
And this is the sole mortal who could
grapple,
Since Adam, with a fall, or with an apple.
—Byron.

At College.

Vacation! Vacation!

The spring term opens Monday night, April 2.

Prof. Smith lectured at Penfield last Friday evening.

Most of the faculty remain at the college during vacation.

S. F. Edwards will spend the vacation at his home in Milan.

The robin is again to be seen; we trust he will not have occasion to regret his early return.

F. T. Williams will spend the vacation with his former "pard," F. L. Woodworth, at Caseville.

Found! near the rustic bridge, a lady's pearl handled pen-knife; loser call at the president's office.

Dr. Marshall will go to Quincy this week to investigate bacteriologically, an apparently contagious disease among sheep.

The rooms and corridors in the west ward of Well's are being re-floored with hard wood flooring. Students are doing the work.

D. J. Crosby was one of the judges at the Jackson Co. High School Oratorical Contest, held at Springport, last Friday evening.

The work on the Women's Building is being pushed as fast as the weather will permit. Forty men are at work at present.

The Botanical Club at its last meeting elected R. L. Brown, president, W. S. Palmer, vice president, and Miss Emma Miller, secretary.

Mrs. Haner and eight of the young women, whose homes are in the northern part of the State, will remain at Abbot during the vacation.

Of 180 eggs placed in the Cypher incubator Feb. 26, 81 were found to be unfertile and 4 were broken, but of the 95 fertile eggs, 77 were hatched.

Quite a large number of the students remain at the college during the vacation; some, because their homes are at a distance, others, to replenish their pocket-books.

The cinerarias, primroses and azaleas in the greenhouse are at their best. Not only is the strain of cinerarias, in particular, very fine, but Mr. Gunson has succeeded in growing some very fine plants.

Miss Keller spends her vacation in Detroit; Miss Blunt, at Ann Arbor; Mr. King, in Chicago; Prof. and Mrs. Babcock, at Ann Arbor and Milan; Prof. and Mrs. Mumford will be at Moscow a part of the time; Dr. and Mrs. Waterman, at Salem.

A. G. Bodourian, '00, will represent the College Y. M. C. A. in an oratorical contest to be held at Kalamazoo, June 8, at which eleven college Y. M. C. Associations will be represented. The subject of all the orations is to be, "How to Solve the Liquor Problem."

The senior class has selected the following class day officers: Orator, F. W. Dodge, Lansing; prophet, Miss Irma Thompson, Lansing; historian, G. M. Odium, Grand Rapids; editor class paper, C. H. Parker, Grand Blanc.

The following base-ball schedule has been arranged for the coming term: April 21, M. A. C., at Hillsdale; April 28, D. A. C., at M. A. C.; April 30, Olivet, at M. A. C.; May 5, Ypsilanti, at M. A. C.; May 7, Adrian, at M. A. C.; May 11, M. A. C., at Adrian; May 12, M. A. C., with D. A. C., in Detroit; May 14, Alma at M. A. C.; May 19, M. A. C., at Ypsilanti; May 21, Hillsdale, at M. A. C.; May 26, Kalamazoo, at M. A. C.; May 28, M. A. C., at Olivet. The games with Hillsdale, Ypsilanti and Kalamazoo only, will count in making up the percentage in the contest for the cup at field day, June 1 and 2.

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An essay on corn

There are two kinds of corn—the Indian corn, grown in the ground, and the anatomical corn, grown on the foot. One is measured by acres and the other by achers.

Indian corn is shucked, but if a man tells you that a human corn don't amount to shucks, he's a liar in six languages.

If you want to raise a crop of anatomical corns, wear a pair of poorly fitted two-for-a-dollar, wear-out-in-an-hour pair of shoes.

If you have a foot that no one else can fit comfortably, bring it to us—"and we'll do the rest."

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News from Graduates and Students.

Eddy J. Gunnison, with '00, is a moulder with E. Bement's Sons, of Lansing, Mich.

Thos. C. Lewis, with '99m, is draughting for the Michigan Vapor Stove Co., at Grand Rapids.

William B. Weddle, with '75, is a dealer in paints and brushes at 33 East 21st. St., New York City.

Howard E. Weed, '89, is land and industrial agent for the Central of Georgia Railway Co. at Savannah, Ga.

A. E. Wallace, with '99m, is employed in a mill in connection with a mining camp at Ballarat, California.

E. E. Gallup, with '96, is principal of the Hanover schools, and will remain another year at an increased salary.

Luke C. Colburn, '88, is chief engineer of the South Haven and Eastern Ry., 84 N. Niles street, Paw Paw, Mich.

H. C. Skeels, '98, has changed his address to 2106 Cass St., Joliet, Ill. He is still in charge of the Higginbotham Park.

C. P. Close, '95, writes from Logan, Utah, that everything is moving along nicely with him and that he is enjoying his college work.

Clarence H. Judson, '86, who has been connected with the L. S. & M. S. Ry. since 1889, has been promoted to resident engineer, Toledo, Ohio.

W. K. Brainard, '99, is foreman of an 800 acre dairy farm at Cross River, Westchester Co., New York, where 175 Holstein cows are kept. He is well pleased with his prospects.

Clark Hubbell, '88, writes from Dawson, Y. T., where he has been engaged in mining and in the practice of law. He says, "I have been out of the United States for two years and will return this coming summer and I never want to leave it again."

James H. Tibbits, '73, writes: "I suppose no boy ever went away from M. A. C. with a keener appreciation of its worth or a more loyal heart than I, and its present prosperity is a source of the deepest pleasure." Mr. Tibbits has been promoted to one of the highest grades in the Treasury department at Washington, D. C.

J. Arnold White, '92, is at Muskegon in charge of the interests of the Michigan Mutual Life Insurance Co. He has a good memory for faces, gaits and voices, as was shown when an old M. A. C. instructor passed that way a few weeks since. J. A. caught a glimpse of him going by, and hurried out to the sidewalk with a cheery welcome.

R. C. Fisher, '95, waits as follows from Hart, Mich., where he is Superintendent of the Union Schools: "The college will have the pleasure of educating another Oceana Fisher in the near future. Miss Thelma Fisher began with the sciences of Bawology, Colicology and Toteology, Thursday, March 15, at ten A. M.

Wm. H. Clemons, '86, of Durand, was met the other day traveling; in fact he seems bent upon using up

mileage, covering several thousand miles of railway a year in the interests of the Perkins Windmill Co. He has charge of an empire that reaches to the Gulf and West. For all of his cares, he is as ready and cheerful as when he was known as "Pat." to a campus full.

A telegram was received Saturday, announcing the death of Walter G. Amos, '97m. No particulars have been obtained, except that from the *Detroit Tribune* of March 25, we learn that he met his death while traveling upon a railway train and that the funeral was to be on Monday. Mr. Amos was held in high esteem as a student, and the RECORD extends the sympathy of the College population to the bereaved family. We hope to give particulars regarding his death and funeral next week.

L. C. Himebaugh, '87, is employed in the Pension Bureau, Washington, D. C. A. D. Himebaugh, with '92, is secretary and treasurer of the Sheffield Manufacturing Co., Burr Oak, Mich. These two, with A. C. Himebaugh, '86, mentioned in last week's RECORD, and R. L. and R. C. Himebaugh, '02m, students at the present time, make five brothers that have attended the College at different times. A very good indication of the value the family places upon a training at M. A. C.

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Office and Factory, Mill St. Both Phones.

Davis Clothing Co.

103 Washington Ave. S.

COME ON BOYS—

We have all the latest up-to-date styles and patterns in

CLOTHING, FURNISHING GOODS AND HATS.

We also keep Sweaters, Supporters, Foot Ball Pants and Jackets.

We are glad to see the old men back and will be pleased to have the new men call. Make our store your headquarters while down town, it is a handy place to leave your packages. WE ARE ONE PRICE.

WE SELL FOR CASH ONLY.

DAVIS CLOTHING CO.

BICYCLE and ELECTRICAL SUPPLIES.

Also the largest Repair Shop in Lansing fully equipped with power machinery.

We pay all transportation on wheels to and from College when repairs amount to one dollar or more.

Capitol Electric Engineering Co.

321 Washington Ave. S.

DIRECTORY

LANSING BUSINESS and PROFESSIONAL MEN

The names in this Directory, as well as those of all our other advertisers, are of reliable parties. We hope that the faculty and students will take pains to patronize those who patronize us.

BARBERS.

J. H. WOOD—Barber. 106 Michigan Avenue E. College work especially solicited.

BOOKS AND STATIONERY.

LANSING BOOK AND PAPER CO. Waterman and Sterling Fountain Pens, Stationery, Pictures, Frames, Wall Paper. 120 Wash. Ave. N.

CITY BOOK STORE. Fountain Pens, Drafting Tools, Stationery, Cards E-graved, Pictures and Picture Framing. Tennis, Football and Baseball goods. Crotty Bros., 206 Wash. Ave. N.

BOOTS AND SHOES.

C. D. WOODBURY.—Boots and Shoes. We shoe the students. See ad.

BICYCLES.

GEO. H. RICHMOND. Pierce Cycles. Full line of sundries. Repairing and renting at reasonable rates. 200 N. Washington Ave.

CLOTHING.

LOUIS BECK.—Clothier. Gents' Furnishings, Hats and Caps. 112 Washington Ave. North.

A. E. DAVIS.—Clothing and Gentlemen's Furnishings. See ad.

CROCKERY AND GLASSWARE.

H. LARNED.—China, Glass and Lamps. 105 Washington Ave. S.

DENTISTS.

R. W. MORSE, D. D. S. Hollister Block, Room 517.

D. R. DAWLEY, M. D., D. D. S. Office over Postal Telegraph Co., Michigan and Washington aves.

D. E. PARMELEE—Dentist. 218 Washington Ave. south. Opposite Hudson House.

DEPARTMENT STORE.

DONSEREAUX'S DEPARTMENT STORE is the place to trade. You can get a warm lunch in our cafe for 10c.

DRUGGISTS.

ALSDORF & SON—The Druggists. Two stores, 102 Washington Ave. N. 335 Washington Ave. S. See ad.

C. J. ROUSER—Capital Drug Store. 123 Washington Avenue South.

ALL MEATS....

May look alike to you, but there is a very great difference in the quality we handle and that sold by some other markets. We handle none but the very best. Like the pudding, the proof of good meats is in the eating. A trial will convince you that you ought to trade with us.

We make daily trips to the College.

BOTH PHONES. Careful attention given to phone orders.

GOTTLIEB REUTTER.

Washington Ave. South.

DRY GOODS.

SIMONS DRY GOODS COMPANY.—Dry Goods and Carpets. See ad.

FURNISHING GOODS.

ELGIN MIFFLIN.—Ladies' and Gentlemen's Furnishing Goods. See ad.

FURNITURE DEALERS.

M. J. & B. M. BUCK.—Furniture. Cor. Washington Avenue and Ionia Street. See ad.

GROCERS.

R. B. SHANK & CO., 200 Washington Ave. S. The leading grocers. Both phones. Daily delivery to the college.

HACK AND BAGGAGE LINES.

M. A. C. STUDENTS—Don't forget W. H. PORTER, the Hack and Liveryman. Rubber tires a specialty. 300 Capitol Ave. S. Both Phones.

HARDWARE, STOVES AND TINWARE.

NORTON'S HARDWARE—General Hardware, Stoves, Tinware, Graniteware, Cutlery, etc. 111 Washington Ave. South. See ad.

INSURANCE.

THE DYER-JENISON-BARRY CO., LTD., (Incorporated) 108 Mich. Ave. West. All kinds of the best insurance. Strongest agency in city.

JEWELERS.

B. P. RICHMOND—Watchmaker, Jeweler and Engraver. 200-202 Washington Avenue N.

LAUNDRIES.

THE VAN GORDER PALACE LAUNDRY. College agents, C. H. Hilton, 97 Wells; Irving Gingrich, 47 Williams. S. P. Lantz, Prop.

LUMBER DEALERS.

H. W. RIKERD.—Lumber Dealer. Mill Street. See ad.

MERCHANT TAILORS.

WOODBURY & SAVAGE.—Tailors. Student trade solicited. Opposite Hotel Downey, North.

JOHN HERRMANN'S SONS. Fine Tailoring. 218 Washington Avenue N.

OCULISTS.

JOSEPH FOSTER, M. D.—Eye, Ear, Nose and Throat. Hours 9 to 12 A. M. City National Bank Building, Lansing.

PHYSICIANS.

A. D. HAGADORN, M. D.—Office hours, 11 to 12 A. M., 2 to 4 and 7 to 8 P. M. Office at 212 Washington Avenue S.; home 419 Seymour St.

DR. J. M. COLLIER.—123 Washington Ave. south. Office over Capital Drug Store. Residence 310 Seymour St.

RESTAURANTS.

GILBERT M. HASTY.—Proprietor Hasty's Gem Lunch. Best meals and lunches in the city. Quiet place for ladies. 113 Wash. Ave. S.