

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

Vol. 15.

LANSING, MICHIGAN, TUESDAY, NOVEMBER 23, 1909.

No. 10.

POSITIONS FOR ANIMAL HUSBANDMEN.

The U. S. Civil Service Commission announces an examination on December 15th to secure men eligible for two vacancies in the Bureau of Animal Husbandry and other vacancies in that Bureau which may occur later. Salaries \$1260 to \$1560.

Some of our M. A. C. graduates should be interested in this.

Further particulars can be obtained from R. S. SHAW, Dean of Agriculture.

M. A. C. WELL REPRESENTED.

At the meeting of the fourth Dry Farming Congress held at Billings, Montana, October 25-29, the following names of M. A. C. men appeared on the program: Dr. L. J. Briggs, '93, U. S. Physical Laboratory, Department of Agriculture; Joseph A. Rosen, '08, Vice President of the Congress and Chief of the American Agricultural Bureau of the Governmental Zemstvo of Ekaterinoslav, Russia; W. P. Snyder, '03, Superintendent of the North Platte Substation, Nebraska; L. B. McWethy, '04, Agronomist of the University of Wyoming. The Executive Committee of the Dry Farming Congress includes the names of Dr. L. J. Briggs, '93, and J. D. Towar, '95.

COLUMBIAN.

On account of the Military the regular meeting of the Columbian Literary Society was held Friday night, Nov. 19.

While many members were absent, the meeting was a very successful and pleasing one, in having an excellent program and overflowing with spirit and good fellowship.

President Jordon called the open meeting to order, the roll call being answered, without exception, by quotations from Whittier. O. C. Lawrence was appointed critic. O. L. Snow gave a talk on the Coast Artillery Corps, telling of the personnel and work of this department of our military force, illustrating with a drawing of New York harbor and its coast defenses. It will be remembered that this is the work "Bill" Frazer has taken up, being in Washington at present, on his way to Fortress Monroe.

H. J. Hotchkiss delivered a humorous recitation, "I Wish it was Otherwise." Followed by a vocal solo by Harry Baker.

A. L. Campbell read us a scientific paper, "The Beef Cattle Industry in the Northwest," giving the history and present status of that industry. The program ended with a fine lot of original jokes by L. G. Kurtz and the critic's report.

The next hour was devoted to a good social time assisted by pop corn, in regulation five-cent packages, and cider. The evening ended with a business meeting.

MICHIGAN FARMERS' INSTITUTES.

L. R. Taft, State Supt. Farmers' Institutes.

COUNTY INSTITUTES.

Ogemaw Co.—West Branch, Dec. 6-7; Roscommon Co.—Roscommon, Dec. 8-9; Osceola Co.—Ewart, Dec. 8-9; Benzie Co.—Benzonia, Dec. 10-11; Crawford Co.—Grayling, Dec. 10-11; Montmorency Co.—Atlanta, Dec. 18; Cheboygan Co.—Wolverine, Dec. 16-17; Emmet Co.—Petoskey, Dec. 17-18; Otsego Co.—Elmira, Dec. 20-21; Wexford Co.—Manton, Dec. 21-22.

ONE-DAY INSTITUTES.

Clinton Co.—Westphalia, Nov. 13; Dewitt, Dec. 31.
Benzie Co.—Frankfort, Nov. 30; Inland, Dec. 1.
Grafton Co.—Ashley, Nov. 30; Ithaca, Dec. 1; Sumner, Dec. 2; Breckenridge, Dec. 3; Forest Hill, Dec. 4.
Oceana Co.—Cranston, Nov. 29; Banona, Nov. 30; Ferry, Dec. 1; Oceana Center, Dec. 2; Weare, Dec. 3; Walkerville, Dec. 4; Crystal Valley, Dec. 6; Cobmoosa, Dec. 7.
Mason Co.—Fountain, Dec. 1; Freesoil, Dec. 2; Victory, Dec. 3; Scottville, Dec. 4; Custer, Dec. 6; Logan, Dec. 7.
Lake Co.—Baldwin, Nov. 30; Luther, Dec. 8; Bristol, Dec. 9.
Cheboygan Co.—Aloha, Dec. 3; Weadock, Dec. 4; Indian River, Dec. 6.
Wexford Co.—Wexford, Dec. 3-4; Harrietta, Dec. 6; Meauwataka, Dec. 7; Cadillac, Dec. 8-9; Pleasant Lake, Dec. 10.
Ogemaw Co.—Rose City, Dec. 3-4.
Emmet Co.—Levering, Dec. 7; Ely, Dec. 8; Alanson, Dec. 9; Stutemanville, Dec. 10; Epsilon, Dec. 11.
Gladwin Co.—Dale, Dec. 7; Grout, Dec. 8; Sherman, Dec. 9; Wagerville, Dec. 10.
Iosco Co.—Alabaster, Dec. 9; Wilber, Dec. 10; Grant, Dec. 11.
Mecosta Co.—Stanwood, Dec. 10; Chippewa Lake, Dec. 11; Barryton, Dec. 18.
Isabella Co.—Blanchard, Dec. 13-14; Weidman, Dec. 15; Beal City, Dec. 16; Delwin, Dec. 17.
Kalamazoo Co.—Portage, Dec. 13; Vicksburg, Dec. 14; Pavillion, Dec. 15; Scotts, Dec. 16; Fulton, Dec. 17.
Oscoda Co.—Fairview, Dec. 13; Mio, Dec. 14; Luzerne, Dec. 15.
Van Buren Co.—Lawton, Dec. 13-14; South Haven, Dec. 15-16.
Muskegon Co.—Lake Harbor, Dec. 14; Dalton, Dec. 15; Montague, Dec. 16; Twin Lake, Dec. 17; Casnovia, Dec. 20; Trent, Dec. 21.
Montmorency Co.—Lewiston, Dec. 14.

Misses Ethel Motley, Lucille Shanahan and Elsie Carsten, all of Grand Rapids, were here for the military, and were the guests of the Eclectic Society for over Sunday.

HESPERIAN PARTY.

Last Saturday night the Hesperian Society gave its annual fall term party. About fifty couples enjoyed the strains of the college orchestra. The decorations were rather appropriate for this season of the year, the armory resembling a football field on a small scale. The walls were decorated with college and society pennants. At each end of the hall goal posts were erected, being trimmed in college and society colors. Bleachers were erected in one corner while a trophy room occupied another corner. The programs were leather, shaped like a football. The patrons were Prof. and Mrs. Vedder, Sec'y and Mrs. Brown, Prof. and Mrs. Shaw, and Coach and Mrs. Brewer.

Paul Bacon and Bill Allen '07 were back for the game and party.

HORTICULTURAL CLUB.

On Wednesday evening the Horticultural club listened to a very interesting lecture on "The History of Propagation by Graftage," by Mr. O. I. Gregg, one of the Hort. instructors. He traced the process from its earliest records down to the present time.

We find records of it as far back as Virgil, he having mentioned it in his writings. At that time the secret was held by very few and was passed down from one generation to another. Since that time the methods have been greatly improved and much has been learned of the process. The old idea that it was some artificial process was disqualified by the finding of many natural grafts. A fine illustration of several natural grafts on one crab apple limb was shown by the speaker.

To show what can be done, one French experimenter grafted a bud onto a leaf. The leaf remained on the tree all winter and grew into a branch during the succeeding years.

At the present time there are three main divisions of grafting, namely, budding, cion grafting and approach grafting. Mr. Gregg illustrated these with a complete series of lantern slides.

After this talk, Prof. Eustace exhibited an interesting collection of grapes, which were kindly sent to the club from Lodi, Cal., by Mr. B. B. Pratt, of '09. Mr. Pratt is now in the employ of the U. S. government, assisting in experiments on grape packing. The following varieties were shown and tested by those present.

1. Emperor.
2. Tokay.
3. Bl'k Morocco.
4. Old Mission.
5. Black Ferrara.
6. Cornichon.
7. Verdal.

Mr. Pratt also included some pomegranites and ripe olives, which were very interesting to the club. The olives looked very tempting, but the statement of Prof. Eustace as to their extreme bitterness was not doubted, the delicious Howell pears which were served, being preferred.

THE FORESTERS' CLUB.

The Foresters' Club held their regular meeting last Tuesday evening. Mr. Zelin Goodell opened the program by reading a paper, extracts of which follow:

STATUS OF MICHIGAN.

"Michigan has taken a great step forward in solving one of her most difficult problems—that of handling her vast public domain.

"Forestry is vitally connected with this, and will be mostly helped by the new legislation which puts us in advance of the majority of the states.

"Important as forestry is for Michigan, it has not succeeded in the past as it should, because of misunderstandings between the forestry supporters and the state officials. The fault is not wholly on either side.

"While the state officials were alluded to as 'politicians' by some of the foresters, the foresters on the other hand were regarded by some of the state officers and legislators as 'impracticable enthusiasts.' With this feeling but little could be accomplished until they got together to recognize that both were working for the best interests of the state.

"The forestry people have won out by educating the public to see the importance of growing timber for the future until they rose up an over the State to ask for more legislation. The state officials won out by getting a practicable bill enacted which will bring splendid results. By thus working together a start has been made. If we keep working together much may be accomplished, for the Public Domain Commission needs the enthusiasm and skill of the forester to keep public spirit up just as the forester needs the Commission to work out its mission. We must not forget this mutual necessity and interdependence. Each may find much to criticise in the other, but is it worth while thus to hinder a glorious cause?

"It might be well for me at this time to enumerate or state some of the duties and powers of the new Public Domain Commission under the law.

"First, the said commission has power and jurisdiction over and management, control and disposition according to law, of all public lands in the state; has charge of all the forest reserves and forest interests and of all the interests of the state in connection with stream protection and control, and all matters pertaining to fires.

"Seven committees of three members each of the Commission were appointed as follows: Executive and Fire; Finance; Forestry; Land Sales and Timber Sales; Mineral Coal, Oil and Gas Lands; Trespass; Water Rights. Mr. Martindale was made Chairman of the Executive Committee on account of his fine executive ability. Mr.

(Continued on page 3.)

The M. A. C. RECORD

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TUESDAY, NOV. 23, 1909.

INTELLECTUAL HOBOISM.

Reed, of U. of M., Talks on "Intellectual Hoboism" to Ohio Teachers.

Toledo, November 13.—Sons and daughters of the rich who attend high schools and colleges for the sole purpose of having a good time, and fraternities and student clubs, were held up to stringent criticisms Saturday morning by John O. Reed, dean of the department of literature, science and the arts, of the University of Michigan, in his address on "Intellectual Hoboism," delivered before the Central Ohio Teachers' Association, in session at Memorial Hall.

The intellectual hoboies and loafers, Dr. Reed said, came generally from families in good circumstances, and were just as much undesirable students as the professional hobo is an undesirable citizen. These children of the rich, he said, attended college and spent money in having a good time rather than spending time in study. Concerning fraternities, he said:

"The fraternities and the fraternity houses in particular form food for dissolute and disorderly hangers-on, and in a large measure exert an influence directly counter to the educational and scholarly atmosphere of the institution to which they attach themselves."

Owing to the increase in wealth and luxurious habits in the middle west, the speaker said, the problem of the student with too much money, is rapidly assuming serious proportions in western schools, and is making the problem of the east the problem of the west.

The intellectual hobo, the speaker continued, was at the bottom of every surprising outbreak of disorder. He may be an athlete or a fop, or both combined.

Among the causes of intellectual hoboism, the speaker said, were the spirit of commercialism that has run rampant in the United States; the kindergarden, whose fundamental doctrine was that the pupil must at all times be amused and interested, and that to this end work must be disguised as play; and the system of unrestricted election of studies.

From the Detroit Free Press.

Hampton, Va., Nov. 20.—President Taft to-day took up his duties as a member of the board of trustees of Hampton Normal and Agricultural Institute, when he attended a meeting of the board and later delivered an address in which he lauded the work that industrial institutions like Hampton and Tuskegee are accomplishing for the colored people of the South. Dr. Eliot and Mr. Carnegie also spoke.

OLIVET PLAYED GOOD GAME.

M. A. C. won undisputed title to the state college championship Saturday afternoon by defeating the Olivet eleven by a score of 20 to 0, in a spectacular game full of forward passes, trick formations and triple passes. At no time in the game did the preachers threaten to score, although they played better ball in the second half and held Coach Brewer's stars to only one touchdown. Captain McKenna was unable to participate in the last local game for M. A. C. and was replaced by Hill, who played a star game and tried for four field goals, one from the 50-yard line coming close.

A triple pass, Moore to Hill, to Cortright, who made a long forward pass to Barnett was frequently worked for great gains, Barnett making one touchdown on this play. The preachers were outclassed in nearly every department, never making any consistent gains through the heavy M. A. C. line. Webber did some brilliant punting, however, and his toe frequently carried the ball back from Olivet's 15-yard line.

Olivet played a plucky game throughout, but their fast back field formations were broken up by the heavy linesmen of the victorious team.

The preachers tried some side line passes and fake formations, but these were easily solved.

Price and Captain Nachtesheim played a great game for Olivet, these two men exhibiting brilliant football skill throughout.

Cortright played a heady game for the winners and pulled off many a forward pass to Barnett or Pattison that netted 40 or 50 yards. Exelby featured in line plunging, seldom failing to pull off five or ten yards when called upon. He was injured towards the end, being replaced by Titus.

Moore, Lemon, A. L. Campbell and Shedd played their last game on the local field Saturday and exhibited brilliant football. J. F. Campbell featured by long end runs.

The entire student body turned out in gay colors and gave the greatest team Coach Brewer has ever perfected a final ovation. Captain McKenna was presented with a fine \$100 gold watch, a gift from the entire student body. A. L. Campbell made the presentation between the halves.

The line-up:

Olivet.	M. A. C.
Nachtsheim, Capt.	L. E. Stone
Ricker,	L. T. J. F. Campbell
Harwood,	L. G. A. L. Campbell
Amtsckler,	C. Moore
Chervenka,	R. G. Lemon
Morrison	R. T. Shedd Cary
Price,	R. T. Pattison Shedd
Rogers,	Q. B. Cortright
Dana,	L. H. Barnett
Webbe,	R. H. Hill
Pillier,	F. B. Shedd Titus

Score—M. A. C. 20, Olivet 0. Goals from field—Hill. Goal from touchdown—Hill 2. Referee—Hurst, Alma. Umpire—Spalding, Kalamazoo. Head linesman and field judge—Blake, Princeton. Attendance—2,500. Time of halves—35 minutes.

L. C. Smith, '99, is a merchant at Newport, Oregon.

ALUMNI

'69.

Iowa City, Nov. 15, 1909.
Mr. Chas. Henley,

Dear Sir:—I received your notice, and enclose you 50 cents to renew my subscription to the RECORD. Since I left the college, 40 years ago, about this time of the year, as commencement was then held in November, I have not been in the state of Michigan but once, and, with two exceptions, have not seen or spoken to a single person that was a student or in any way connected with the college in my day or in the long time that has passed since then. My class, that of '69, had a reunion a couple of years ago but I could not attend. Of the ten men who made up the class, seven were there. One man, Geo. Eaton, was killed by Indians a year or two after graduation, near Greeley, Colorado. One other, Lyman Mason, died ten or twelve years later. The other eight have lived for forty years and I have never met any of the others, which seems exceptional—that eight men out of ten should be alive for forty years after graduation. As for myself, my life has been very uneventful, and with no especial interest for anyone outside of my own family.

Yours respectfully,
GUY JOHNSON.

'86.

W. R. Rummler, '86, is a member of the firm of Rummler & Rummler, patent attorneys, 1400 Tribune Bld., Chicago, Ill.

'88.

Wm. A. Taylor, '88, pomologist in charge Field Investigations, U. S. department of agriculture, left for Panama Nov. 15th, to investigate possibilities of the canal zone.

'89.

Howard Evarts Weed, '89, is landscape architect in the city of Chicago. He is giving a series of "improvement lectures" in various cities of the country. Some of the titles of his lectures are, "A More Beautiful America," "The Need of Parks and Children's Playgrounds," "The Ornamentation of the City Lot," etc. All of his lectures are illustrated by stereopticon views.

'92.

L. C. Brooks, '92, is master electrician at the Boston Navy Yard. His address is 12 Fairmount Ave., West Somerville, Mass.

'97.

E. C. Green, '97, is director of the experiment station at Fort Brown, Brownsville, Texas, and is doing good work among the farmers in the valley where the city is located.

'99.

Edward D. Gagnier, '99, is with the Buckeye Engine Co. His address is 356 High street, Salem, Ohio.

With '99.

Bliss M. Dewey and Ralph H. Osborn, both with the class of '99, live and own farms at McAllen, Texas.

Sp. '99-'02.

Miss Mary A. Smith, special '99-'02 is teaching in the Tacoma high schools. Her address is the Woodstock, Tacoma, Washington.

'01.

Lieut. Mark L. Ireland, '01, and Mrs. Irma Thompson Ireland, '00 are now stationed at Fort Stevens, Oregon, the headquarters of the artillery district of the Columbia. The district includes Forts Canby and Columbia, Washington, and Fort Stevens, Oregon, and garrisoned mainly by troops from the Coast Artillery Corps, U. S. Army, who are charged with the gun and submarine mine defense of the mouth of the Columbia River. Lieut. Ireland has been detailed as Artillery District Ordnance Officer. This is the officer who is charged with the care, preservation, and supply of ordnance material and with the batteries out of commission.

Roy M. Norton, '01, is a member of the firm of Jenks & Dresser, of Port Huron, Mich., and Sarnia, Ontario. He is in charge of their plant at Sarnia, Ont., and is engaged in bridge work on their Ontario contracts. His postoffice address is Upton Works, Port Huron, Mich.

H. T. Thomas, '01, is the engineer for the Reo Car Co., Lansing, Mich., and resides at 1100 Michigan Ave., east.

F. L. Radford, '01, is chief draftsman for the Reo Car Co., Lansing, Mich., and resides at 614 S. Sycamore St.

J. Guy Aldrich, '01, is chief engineer for the Industrial Gas Power Co., 621 Caswell Block, Milwaukee, Wis., and resides at 618 Dover St., Milwaukee, Wis.

'06.

Geo. P. Boomsliker is now instructor in civil engineering at the University of Illinois, Urbana, Ill.

J. W. Carpenter, with '06, was at San Banito, Texas, in May and unless his work has recently been completed is there yet. He has charge of the reinforced concrete work on that canal system.

'07.

Herbert R. Beckwith, '07, and wife are in Valley Falls, N. Y. Mr. Beckwith travels for the Oliver Chilled Plow Works of South Bend.

B. B. Clise, '07, is manager of the Bessemer branch of Armour & Co. Address, Bessemer, Ala.

A. H. Chase, '07, is teaching in the Lafayette H. S., Ind. Address lock box 206.

P. H. Shuttleworth, '07, is with C. H. Knox & Co., in one of their general offices at Buffalo, N. Y.

W. L. Hart, '07, is manager of the McAllen Nursery Company at McAllen, Texas. The company was organized and began business in 1908. Their aim is to build up a large and permanent business as fast as soil, water, advertising and all around pushing will permit. Mr. Hart is planning to visit M. A. C. during the week of commencement exercises in June.

'09.

Chas. J. Oviatt, '09, is an assistant in Wool Investigations, University of Wyoming, at Laramie. He took up his position there about the middle of October.

Prof. M. L. Dean, formerly instructor in horticulture at M. A. C., attended the Fourth Dry Farming Congress at Billings, Montana. He is now state inspector of orchards for the state of Montana.

SPECIAL SALE OF FURS
ALL THIS WEEK

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COLLEGE BUS HEADQUARTERS

THE FORESTERS' CLUB.

(Continued from page 1.)

Fuller was made Chairman of the Finance Committee because in his department the finances of the State are looked after and the accounting of the State performed. Mr. Russell was appointed Chairman of the Committee on Land Sales and Timber Sales on account of his knowledge of the same, being Land Commissioner at the present time. The Chairman of the Committee who has charge of the Mineral, Coal, Oil and Gas Lands is Mr. Kelly, a gentleman engaged in mining, and one who is well acquainted with matters pertaining to mineral lands, etc. Chairman of the Committee on Trespass—Mr. Russell. Chairman of the Commission of Water Rights—Mr. Martindale. J. E. Beal was named as Chairman of the Forestry Committee. All matters pertaining to these different things, are referred to the committees having these matters in charge, and thus, with seven committees, they are able to accomplish much more work. They are very fortunate in securing an unusually efficient man for Secretary of the Commission, Hon. A. C. Carton, upon whom much of the work devolves.

* * * * *

"Reports from the State Game, Fish and Forestry Warden show that he has left no stone unturned to prevent the starting and spreading of fires along the railroad right of ways. He also reports that the railroads are all cooperating with him to bring about the desired results.

"The State Game, Fish and Forestry Warden has a \$10,000 emergency fund which he can draw on

at any time for the prevention of the starting and spreading of fires, but his report made to the Public Domain Commission under date of October 13th, would show that while a great deal of work has been done by his department, only \$2,000 of the emergency fund has been used, leaving \$8,000 to be turned back into the State Treasury.

"In addition to the work on the fire lines, they are working in conjunction with the supervisor of the township in which the reserve is situated in re-building a bridge across Wolf Creek, which will be of great value to both the settlers and the reserve.

"About twelve acres of flat land has been cleared, ditched and seeded, and in the future we intend to grow hay for our own horses on this reserve.

"Reports from custodians on both reserves show that only about twenty-five acres of the forty-two thousand have been touched with fire, and no timber of any amount has been destroyed. This fire was started by a camper on the edge of a marsh and the land burned over was mostly hay marsh.

"They have instructed the land commissioner to hold all sales in the counties in which the lands are situated.

"They have instructed the land commissioner to have deeds prepared reserving the mineral, coal, oil and gas rights of all lands sold by his department.

"They have instructed the land commissioner to have deeds prepared reserving the rights of ingress and egress over and across all lands bordering upon water courses or streams.

"They have instructed the auditor general and the land commis-

sioner temporarily to suspend the sale of lands in all counties north of the second correction line until the lands for forestry purposes could be selected.

"They have selected the 110,000 acres of lands to be used for forestry purposes and have instructed the auditor general and land commissioner not to dispose of any lands in these counties."

Mr. L. T. Burritt gave a talk on logging camps in northern Michigan. Mr. Burritt has worked in the woods for some time in a logging camp near Manton on the Manistee river. He described graphically each operation of establishing camp and building roads, etc. His talk was clear and concise and very interesting.

PROGRAM OF FOLLOWING MEETINGS.

NOVEMBER 16.

Status of Michigan Forestry—Zellin Goodell.

Discussion—G. L. Dimmick.

A Logging Camp in Northern Michigan—L. T. Burritt.

Discussion—H. E. Lynch.

NOVEMBER 30.

Gathering Forest Tree Seeds as a Business—Bruce Hoffman, L. R. Quehl.

Discussion—H. C. Hilton.

Commercial Forest Nurseries—N. Van Horn.

Discussion—H. B. Wales.

DECEMBER 14.

Michigan Farm Woodlots—Frank Darling.

Discussion—J. F. Campbell.

Growing Trees for Timber—J. C. De Camp.

Discussion—R. W. Sloss.

A. H. Case, '02, is Supt. for the Santa Fe Gold and Copper Mining Co., at San Pedro, New Mexico.

CLASS OF 1901, ATTENTION!

Mark L. Ireland, '01, class secretary, desires to learn from each member of the class his present address and whether or not he expects to attend the triennial alumni reunion in June, 1910. Suggestions for a class reunion are in order. Address replies to Lieut. Mark L. Ireland, Fort Stevens, Oregon.

JOHNNIE WALKUP HERE.

Johnnie Walkup, whose father met an ill fate in May, 1908, during his return to the South Sea Islands, came back to the college Monday. Many persons here who had supposed he too had been drowned were much surprised to see him.

MILITARY BALL.

The military ball which was given Friday evening in the armory was well attended; in fact, nearly every man who could dance turned out. It was a great success. The armory was decorated with flags and guns. Lieut. and Mrs. Holley were the chaperones of the evening.

Misses Helen Albertus, Grace Mabley and Olive Hook of Detroit, Hazel Kellogg, Gertrude Alden and Myssie Bennett of Grand Rapids, Grace Clark and Hazel Peck of St. Johns, Ruth Minogue of Newaygo and Jane Daunt of Bay City were at M. A. C. Saturday to attend the Marquette game and the Hesperian party.

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LADIES' UNION SUITS—\$1.00, \$1.50, \$2.00, \$2.50, \$2.75 and \$3.00
MEN'S UNION SUITS—\$1.00, \$1.50, \$2.50 and \$3.00

LADIES' SEPARATE GARMENTS—50c, 75c, \$1.00, \$2.00
MEN'S SHIRTS AND DRAWERS—39c, 50c, and \$1.00 each

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PROGRESS OF EDUCATION

In 1897, when the present administration of the U. S. department of agriculture began, all but one of the land grant colleges were in running order and doing excellent work, but their total income was only \$5,000,000; today it is \$18,000,000. The estimated value of the property of these institutions has advanced from \$51,000,000 in 1897 to \$106,000,000 in 1909, while the enrollment has grown from 4,000 to 14,000 in that time.

In 1897 Alabama had eight district agricultural schools and had made provision for the ninth; Minnesota had the only state agricultural high school, while the teaching of agriculture in the public elementary schools was scarcely thought of.

Today there are 15 agricultural high schools of the Minnesota type and 40 other high schools receiving state aid, 16 privately endowed colleges and high schools giving instruction in agriculture, 115 state and county normal schools preparing young people to teach agriculture, and, on the lists of the U. S. Department of Agriculture are 250 public and private high schools and academies giving some instruction in agriculture. Sixteen institutions are offering correspondence and reading courses in agriculture.

The constitution of the new State of Oklahoma requires the teaching of agriculture in all public schools and a recent legislature has provided for 4 State Normal schools with departments of agriculture. The legislature of Virginia has appropriated \$20,000 for instruction in agriculture, home economics and mechanic arts in 10 district agricultural high schools, and Michigan and Mississippi have provided for agricultural high schools.

The teaching of agriculture in the rural schools is now required by law in 13 states of the Union.

The State Agricultural Colleges that have just recently finished elaborately equipped agricultural buildings are: Nebraska 2, Oregon 2, Tennessee 1, and Michigan 1.

The Michigan Agricultural College, through its department of agricultural education, with Prof. W. H. French, former deputy superintendent of public instruction in charge, plans to send a graduate of the college to take charge of the high school at North Adams, which through the cooperation of the college and the local school authorities will be conducted for a time at least as a high school offering a strong course in agriculture.

Oliver D. Dales, '03, is civil engineer for the Niagara Falls Hydraulic & Power Co. His address is 1017 Walnut Ave., Niagara Falls, N. Y.

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