

# The M. A. C. RECORD.

MICHIGAN AGRICULTURAL COLLEGE.

VOL. 18.

EAST LANSING, MICHIGAN, TUESDAY, APRIL 22, 1913.

No. 29

## SENIOR INSPECTION TRIP.

Will Visit Power Plants, Railway Shops, Bridges, Manufacturing Establishments, April 29-May 3.

The Senior Inspection trip this spring promises to be one of exceptional interest and educational value.

The party will leave Lansing Tuesday afternoon, April 29 and go directly to Keokuk, Ia., arriving in that city Wednesday morning. Here the day will be spent in inspection of the big dam, hydroelectric plant, ship canal and docks of the Mississippi River Power Co.

They will then return to Chicago where two days will be spent in inspection work. This will include visits to power plants, railway shops, water works, bridges, manufacturing establishments, etc., and the two days will be crowded with interest for every member of the party.

On Saturday the party will be in Gary, Ind., where they will inspect the plants of the Indiana Steel Co. and American Bridge Co.

The trip will end officially on Saturday afternoon, May 3. We hope to have complete report of this trip in our issue of May 6.

## AMERICAN ACHIEVEMENT BOYS.

The American Achievement Boys, numbering forty, visited the college in a body Friday forenoon, and stopping in front of the Library soon drew a large crowd by their band music. The boys were under the supervision of Major Sidney S. Piexotto, of San Francisco, who founded the Columbia Park Boys' Club of California in 1895. The major introduced Pres. Snyder, who welcomed the visitors, called attention to the wonderful opportunities of a world tour such as they were entering upon, and invited them to visit the grounds and buildings.

Judge Willis Brown, of Charlevoix, a member of the National Commission on Juvenile Court Affairs, who is now in Lansing, made a speech in which he mentioned the qualifications for membership in his club and introduced his son, Ralph, who will represent Michigan in this tour.

The major then explained more in detail the plan of their journey and purposes of same. At the big exposition in 1915 it is planned to have a Boy City as a real live working exhibit. This shall consist of a small city with its schools and play grounds, its civic center and its business activities—in fact all that goes to make up community life. Each state will be allotted a certain number of citizens from its boys under 18 years of age, to be selected by reason of superior quality and achievement. To impress the boys of other lands with the importance of their own lives in the world development, it was determined to

send 50 American boys to personally invite the boys of the world to this exposition city in 1915. To these boys visiting M. A. C. on Friday has been delegated this task, and they are now on their trip around the world.

They were to stop 3 days in Toledo, some time in Pittsburg and in other cities before sailing on May 7.

During this trip they give excellent entertainments consisting of music, display of physical training for boys, foot ball act, acrobatic acts, etc., and from the benefits of these entertainments all expenses are paid.

The boys made a short tour of the grounds and were very much interested in every thing, and especially with the live stock. They left for Toledo at 1:30 by way of Jackson.

## PROF. BAKER IN GERMANY.

Pres. Snyder has received the following letter from Prof. Baker, written under date of April 8:

"Arrived in Cuxhaven Sunday morning, and took the boat's train for Hamburg. The journey across was very pleasant and interesting. Family are well, and we have found no trouble in traveling as planned. We stopped in Hamburg Sunday night, and came on down here yesterday afternoon. This old town is at the base of the Hartz Mountains, and is on our route to Munich. There are extensive forests just to the east of town, and I have arranged to go out this afternoon. Was interested to see a fine stand of Michigan white pine just after we left Cuxhaven, growing on what seemed to be pure sand. The trees looked vigorous and well kept.

Peach trees are in bloom, and in the field men and women (mostly women) are busy planting potatoes.

I keenly appreciate the opportunity to be here; it is all fine and certainly worth while. I am anxious to get on down to Munich, and to active study.

I do not know of anything that more characterizes the Germany way of doing things in contrast to our own than in the starting of their passenger trains. These trains glide out of the stations, and one can hardly tell just when motion began."

## PORTRAIT FUND.

Grateful acknowledgement is hereby made by the executive committee to the contributions the past week:

J. E. and Mrs. Alice Weed Coulter.  
A. H. Crosby.  
C. B. St. Charles.  
H. F. Buskirk.  
Miss Mary Tingley.  
O. S. Graner.  
V. S. Hilliger.  
Guy Johnson.  
C. W. Kaylor.  
A. I. Stevens.

## BASE BALL.

Home Team Wins Two Games.

M. A. C. certainly started the base ball season with a rush, and things look good for the season.

The first game, played Friday afternoon with Western Reserve, resulted in a victory for the home boys, 3 to 2, although it took ten innings to do it. An unusually large crowd witnessed the game, among whom was the governor and a large number of senators and representatives.

The work of Dodge at bat was one of the big features of the game. He secured three hits out of four times at bat, the last one being responsible for the winning run in the 10th inning.

Peterson, pitching his first full varsity game, was in splendid form, holding his opponents to three hits and striking out eleven players.

The visitors started the scoring in the third, when Bibbins made a wild throw to first, advancing Kalisch to second. He then scored on a high fly which our fielders failed to locate.

In the seventh, M. A. C. tied the score, and in the eighth Mogge secured a double, was advanced to third by Dawson, and scored on a hit by Griggs. The Cleveland team was not done, however, and proceeded to tie the score in the ninth, making it necessary to add another inning. In this inning Mogge was placed on third and Griggs on first by clear hits. Dodge was then called upon, and proceeded to bring in the winning run by what might have been a home run, and the game was ended.

### WESTERN RESERVE.

	AB	R	H	PO	A	E
Sterling, ss.....	4	0	2	1	3	0
Bower, 3b.....	3	0	0	3	0	0
Greer, 1b.....	4	0	0	8	0	0
Spurney, lf.....	4	0	0	0	0	0
Agate, 2b.....	4	0	0	2	2	2
Price, cf.....	3	0	0	1	0	0
Kihorany, c.....	3	0	1	11	0	0
Kalisch, rf.....	2	2	0	0	0	0
Evans, p.....	3	0	0	2	6	0
Totals.....	37	2	3	28	11	2

### M. A. C.

	AB	R	H	PO	A	E
Vatz, ss.....	3	0	0	4	1	0
Thomas, 3b.....	3	0	1	0	5	1
Mogge, rf.....	5	2	2	0	0	0
Dawson, lf.....	5	0	0	1	0	0
Griggs, 1b.....	5	0	2	14	1	0
Harvey, cf.....	1	0	0	0	0	0
Dodge, c.....	4	0	3	0	0	0
Gorenflo, 2b.....	3	1	1	1	2	0
Bibbins, c.....	4	0	2	10	3	1
Peterson, p.....	4	0	0	0	7	0
Totals.....	37	3	11	30	19	2

\*One out when winning run scored.  
Score by innings—

W. R. U.....	0	0	1	0	0	0	0	1	0	—2
M. A. C.....	0	0	0	0	0	0	1	1	0	—3

Summary: Two-base hits—Dodge, Mogge. Stolen bases—Mogge, Griggs, Gorenflo; Kalisch 2. Sacrifice hit—Thomas. Struck out—By Peterson 11; by Evans 9. Bases on balls—off Peterson 2; off Evans 3. Time of game—4:00. Umpire—Thomas.

## ALUMNI

'07.

Mr. R. L. Pennell, '07, is rapidly extending his well-earned reputation as a successful grower of fruit. At present, Mr. Pennell is more than busy as expert orchardist at the Traverse City State Hospital. The report of the board of trustees, printed June 30, 1912, contains the following regarding the orchards: "The orchards are rapidly coming into value, and for the last few years have been under Mr. R. Pennell, a trained orchardist. Under his direction, the orchards have more than doubled in value, and from this time on, each and every year will increase the value of their output. Only a trained orchardist can appreciate the amount of effort and skill it requires to maintain general orchards and small fruit orchards in successful operation." The account then goes on to tell about the spraying, thinning, pruning, etc., done under Mr. Pennell's directions. From 60 to 70 patients were engaged in harvesting the fruit; besides, there are paid assistants. The cold storage is still furnishing apples in prime condition.

'09.

Gerald Allen, representative of the Ford Motor Co., in England, writes that he is getting used to the country and its people and enjoys his work in spite of a few experiences with strikers. Mr. Allen is works manager for the company's plant at Cheshire and states that the busy season is approaching when they will probably turn out 75 cars per day. The plant has 750,000 feet of floor space and employs 600 men. He does not expect to get back to America until the summer of 1914, and then possibly for a visit only. H. C. Pratt, '09, is now on his way to England from South America.

'10.

H. H. Douglas, who has been in charge of the department of agriculture in the Cameron State School of Agriculture at Lawton, Okla., has resigned his position at that place and will be in Lansing soon after May 1. He will begin work as butter inspector at Troy, Penn., about May 15.

'12.

E. C. Sanford, forester at Ogden, Utah, writes that, in going over the available interdistrict records of field assistants for 1912, he does not find a single M. A. C. man with an unfavorable record. This is certainly a fine showing for the class of 1913. Practically all of the forest assistants have been in the district office during the past month, familiarizing themselves with the business procedure of the various departments, and getting an intensely practical course in forest administration. This should greatly increase the efficiency of the men.

# The M. A. C. RECORD

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B. A. FAUNCE, MANAGING EDITOR

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TUESDAY, APRIL 22, 1913.

THE big triennial is coming. June 25 is the date. It is not too early, we believe, for the officers of the various alumni organizations to get the members lined up and interested in this meeting. The local forces are now well organized, committees appointed, and preparations are going forward to make this a great home-coming of the alumni. The local committees need your support now, and, above all, need the assurance that you will be here June 25. Stir up the members of your class, or of your local organization, and prove to them that no alumnus can afford to stay away.

## STUDENT RECITAL.

The following recital is to be given by the students of music next Friday evening, April 25th, at 7:30, in the parlor of the Women's Building.

All students, friends, and teachers are cordially invited to attend. A special invitation is extended to the younger members of the faculty and their wives, who perhaps have never attended any of the recitals, and who would certainly enjoy becoming acquainted with the work done in music by our students. One hundred and thirty students are enrolled for music study this term, and pupils of each of the teachers—the Misses Freyhofer, Löffler and Himmelberger, will be represented on this program.

### PROGRAM.

Berceuse	Godard.
MISS ETHEL PEABODY.	
Columbine	Delahaye.
MISS OLIVE NORMINGTON.	
The Swallows	Godard.
MISS KATHERINE CRANE.	
The Musical Clock	Carl Heins.
Berceuse	Iljinski.
MISS BLANCHE HAYS.	
The Butterfly	Grieg.
MISS GLADYS LAHYM.	
Spring Song	Grieg.
MISS NORMA LOEWE.	
Nocturne	Meyer-Helmund.
MISS LENA WHITLOCK.	
Hark! Hark, the Lark!	Schubert-Liszt.
MISS HELEN BOYCE.	
Polonaise, Op. 77 (2 pianos).	Saint-Saens.
MISS FERNE LIVERANCE AND MADGE LAMOREAUX.	
The Doll's Dance	Poldini.
MRS. ETHEL WHITEMORE MILLER.	
Minuet	Padereuski.
MISS EDNA FRAZIER.	
Joy of Autumn	MacDowell.
MISS NELL CARTER.	
Valse de Juliette	Raff.
MISS CAROL DAVIS.	
Gondoliera	Moskowski.
MISS FERNE LIVERANCE.	
Tarantella	Liszt.
MR. LEE M. HUTCHINS.	

## M. A. C. RIFLE TEAM

Wins Fourth Place.

In the Western Rifle Association contest which closed April 5, M. A. C. stands fourth. The home team won in the last match with Nebraska, the scores being 945 and 865.

There were 13 contests of which M. A. C. won 10 and lost three, West Virginia and Iowa tying for first place and Minnesota standing 3d. The two teams having the high count will shoot off the tie and the winner will then shoot with Harvard, the Eastern champions. Following are the standings in the Western league:

	Lost.	Won.
West Virginia	12	1
University Iowa	12	1
University Minnesota	11	2
M. A. C.	10	3
University California	9	4
Purdue University	8	5
University Wisconsin	6	7
Washington State College	5	8
Oklahoma A. and M. C.	5	8
U. S. Veterinary	4	9
University Kansas	4	9
University Nebraska	3	10
Louisiana State University	1	12
University Missouri	0	13

## THE VARSITY MEET.

Considerable interest was shown in the varsity track meet Saturday, and a large number of men were on hand to compete for places. This meet practically decides who shall represent M. A. C. in the dual meets with outside teams.

Following are the results of the meet:

Class of each indicated by fr.; soph., jr. and sr.

**Hammer Throw.**—Distance, 105 ft. 10 in. (1) Kittle, fr.; (2) Moore, sr.; (3) Webber, jr.

**High Jump.**—Height 5 ft., 6 in. (1) Loveland, soph.; (2) Julian, soph.; (3) Tripp, fr.

**100-yard Dash.**—Time, 10.2 sec. (1) Alderman, fr.; (2) Bishop, soph.; (3) Servis, sr.

**880-yard run.**—Time, 2:15 2-5; (1) Capt. Brown, jr.; (2) Warner, sr.; (3) Trieze, fr.

**Mile Run.**—Time, 4 min. 58 sec. (1) Rosen, sr.; (2) Herr, soph.; (3) Green, soph.

**Pole Vault.**—Height, 10 ft., (1) Loveland, soph.; (2) Beatty, soph.; (3) Spaulding, jr.

**440-yd. Dash.**—Time, 58 sec. (1) Howard, soph.; (2) Sheldon, jr.; (3) Krebs, prep.

**Broad Jump.**—Distance 19 ft., 2 in. (1) Beatty, soph.; (2) Gilde-meister, fr.; (3) Tripp, fr.

**220-yd. Dash.**—Time, 24 sec. (1) Alderman, fr.; (2) Servis, sr.; (3) Bishop, soph.

**Shot Put.**—Distance, 34 ft., 2 in. (1) Julian, soph.; (2) Jaroszewski, jr.; Donaldson, fr.

**Low Hurdles, 120-yd.**—Time, 13-4. (1) Beatty, soph.; (2) Baxter, soph.

**Two-mile Run.**—Time, 10:54. Rosen, sr.; (2) Herr, soph.; (3) Barnes, fr.

**Discus.**—Distance, 98 ft., 7 in. (1) Loveland, soph.; (2) Servis, sr.; (3) Chambers, sr.

**Relay.**—Won by sophomores, consisting of Bishop, French, Loveland, Beatty. Time, 1:42.

## HOLCAD PRIZES.

In addition to the \$25 prize for essay, story, etc., mentioned recently, the Holcad is also offering prizes as follows:

For the best piece of literary work of a kind different from that winning the Eunomian prize the Holcad management will award a prize of five dollars. *For Example:* if the Eunomian prize is won by a story, the Holcad prize will go to a poem, essay, or play; if the Eunomian prize is won by a poem, the Holcad prize will go to a story, essay or play.

For six other pieces of literature the Holcad will award seven dollars in prizes—two dollars for the best piece of any kind, one dollar each for the next five of any kind. The Holcad is to have the right to print all literary productions submitted in this contest. Manuscripts must be in by May 15.

Judges are to be chosen under the same conditions and in the same manner as are those for the Eunomian prize.

## AGRICULTURAL EDUCATION.

The third annual meeting of the Michigan Society for the promotion of Agricultural Education will be held at East Lansing, April 25 and 26, 1913, Room 109 Agricultural Building. A good meeting is assured. The following program will be carried out:

### FRIDAY EVENING, 7:30.

Address—"Popularizing the Teaching of Agriculture Among Patrons of the School." ERNEST BURNHAM, Ph. D., Kalamazoo.

Address—"Progress in Agricultural Education." PROF. K. L. HATCH, Madison, Wis.

### SATURDAY MORNING, 8:30.

"Purposes of Agricultural Courses in High Schools." C. L. NASH, Union City.

Discussion. S. J. GIER, Hillsdale.

"A Plan for Home Demonstration Work During Vacation." A. McVITTIE, St. Johns.

Discussion. C. D. MASON, Lawton.

"Farmers' Short Courses—Aims, Results." C. S. LANGDON, Watervliet.

Discussion. S. S. SMITH, Fremont.

"Questions for the Good of the Order."

### BUSINESS.

J. W. CHAPIN, Coldwater, Secretary.  
RAY A. TURNER, Hillsdale, President.

All teachers of agriculture are in duty bound to be present. A cordial invitation to attend the sessions is extended to all superintendents, members of school boards and other friends of industrial education.

## HORT. CLUB.

The interesting subject of "Renting of Orchards" was very ably presented by Prof. Sanford last Wednesday evening. Mr. Sanford's remarks were given from actual experience in the renting of orchards and gave the club some very reliable and serviceable information. Emphasis was placed upon the selection of the orchard condition and size of the trees, drainage, radius of operation and rental price. "I would not advocate the rental of trees where the yield is lower than about three barrels per tree,"

said Mr. Sanford, "as it is difficult to handle trees with profit where the yield is lower than about that amount." The subject of harvesting the fruit was touched upon. Prof. Sanford said, "While I personally like to pack in boxes, yet our markets seemed to prefer the barrel package." Several of the seniors spoke. Schuyler expressed the belief that the average farmer could not properly care for an orchard without neglecting his other work. Granger and Servis related their vacation experiences and McClintock explained his future work in the ginseng industry which will be of a pathological nature.

## THE OLIVET GAME.

In a game that was replete with heavy hitting on the part of M. A. C., Olivet was beaten on her own field Saturday by the decisive score of 8 to 2. Spencer's pitching was of the best, he striking out twelve men and allowing but six scattering hits. Olivet started strong, scoring in the first on a double and two sacrifice hits. In the closing inning the Olivet boys added one more tally, when their short stop drew a pass and completed the circuit on a long hit to right field.

For the home team Griggs and Dodge each are credited with three hits, while Vats, Mogge, Dawson, and Spencer each secured two. Dawson's home run in the fourth made this the big inning for the home team. The first tally was made in the third, three in the fourth, two in the sixth, and two in the seventh completed the scoring. Capt. Gorenflo sprained an ankle in attempting to steal second, and was replaced by Dancer.

## THREE GAMES THIS WEEK.

Three good games scheduled this week on the home field. Two of these are with Georgia University, on Thursday and Friday, and the scores will no doubt be close. In the two games recently played with Michigan, this team won the first and tied on the second. Games will be called at 4:00 p. m.

On Saturday Alma comes for a game, bringing Myers, the crack pitcher who captains the team. Although Myers is a professional, and therefore ineligible for games in the M. I. A. A., the management will make no objections if Alma chooses to play him here.

The Alma game will probably be called at 3:00 o'clock.

Ezra Levin, '14 has left college for this term to accept a position as assistant to Prof. J. C. Arthur, head of the department of botany at Purdue University, Lafayette, Ind. Mr. Levin will be engaged in making extensive experiments in continuation of the work which Dr. Allen has devoted himself to for the past 20 years, that of determining the life histories of the rusts native to the United States. The position is one of great educational value to the person intrusted to this work, and is considered a compliment to the institution that Mr. Levin's training was considered sufficient to enable him to undertake it. Mr. Levin plans to return to his studies next fall.

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## ABOUT THE CAMPUS

Dean Bissell attended a meeting  
of the Detroit Engineering Society  
Friday of last week.

Prof. W. H. French spoke to  
farmers' organizations at Fruitport  
on Saturday last, and at Hastings on  
Monday of this week.

The Ero Alphan literary society  
entertained the teachers of the  
home economics department Friday  
evening. A very interesting pro-  
gram was carried out.

Prof. Shoesmith visited several  
points in the state last week where  
cooperative experiment work is  
being carried on. Field Agent  
Potts was busy in Allegan Co. or-  
ganizing alfalfa clubs.

Mr. W. H. Hoodless, former in-  
structor in the hoodless sugar course,  
has resigned his position as general  
superintendent for the Michigan  
Sugar Co. in this state and is now  
with the Pennsylvania Sugar Co.  
of Philadelphia.

Field Agent O. K. White gave  
five demonstrations last week and  
is booked for six this week in the  
southeastern part of the state. He  
is meeting with splendid success and  
is unable to respond to the large  
number of calls from all parts of the  
state.

The M. A. C. Women's Club  
met yesterday in the parlors of the  
Peoples' Church at which time  
Mrs. Krentel gave a book review  
and Miss Frances King, of Alma,  
spoke on forestry. A musical pro-  
gram was given and afternoon tea  
served.

Mayor Gunson spoke before the  
Farmers' Club meeting last Tues-  
day night on conservation on Mich-  
igan Farms.

Saturday was clean up day at  
East Lansing and a team was kept  
busy hauling ashes, tin cans, and  
other material to the dumping  
ground.

The Phi Delta literary society  
now occupy their new home on  
Grand River Ave., the former home  
of Mrs. A. C. Bird. Dr. Lyman  
will occupy the residence on Abbot  
Ave., formerly rented by the society.

About 35 friends and neighbors  
pleasantly surprised Mrs. M. Mil-  
ler, Harrison Ave., Saturday even-  
ing, the occasion being in honor of  
her birthday. The feature of the  
program given was the excellent  
music on harps.

At the Foresters Club Tuesday  
evening Instructor Klem spoke in-  
terestingly on demonstration of the  
national forests in Dakota with  
special reference to protection of  
same. State geologist Allen was to  
have been present but was unable  
to be in the city. It is hoped to be  
able to secure him for a future date.

Two new students have entered  
for work this term. Robert E.  
Mohler of Scottville is a graduate  
of Mt. Morris college, Ill., in 1912  
with the degree of A. B. Mr.  
Mohler has entered for the work in  
agriculture. Edwin K. Sales is a  
graduate of the Tecumseh high  
school and has entered for the  
course in veterinary medicine.

Representative Jakeway will  
speak before the Hort. club Wed-  
nesday evening, on the subject of  
"Horticultural Legislation."

Mr. and Mrs. W. R. Riblet are  
the parents of a twelve pound son.  
Mr. Riblet is an engineering senior  
and former captain and quarter back  
on the M. A. C. foot ball team.

The ladies of the People's Church  
held a very successful baked goods  
sale on Friday evening of last week.  
Pies and cakes "like mother used  
to make" were fully up to standard.

Mayor Gunson will speak before  
the men's class of the People's  
church Sunday morning at 11:40.  
He will talk along the line of city  
charter and the commission form of  
government.

Instructor M. M. Cory will be  
granted the degree of Electrical En-  
gineer (E. E.) by his alma mater—  
New Hampshire College—in June  
of this year. The subject of the  
thesis presented by him was "Com-  
mercial Power Engineering." Mr.  
Cory graduated from N. H. in '08  
with the degree of B. S.

Mr. E. L. Shepard, instructor in  
civil engineering, has been elected  
an associate member of the Ameri-  
can Society of Civil Engineers.  
This is considered quite an honor  
by members of the profession, as  
only those are eligible who have  
had considerable practical experi-  
ence, and who have demonstrated  
high ability by having had responsi-  
ble charge of important engineering  
work.

Miss Rachel Benham, of the de-  
partment of bacteriology, was con-  
fined to her room with grip the  
greater part of last week.

G. E. Smith, '13, has received his  
appointment to a position with the  
experiment station in the Philip-  
pines. The work is largely horti-  
cultural.

Five special bulletins along hor-  
ticultural lines are being mailed this  
week,—the spray bulletin, celery  
culture, small fruits, how to make a  
lawn, and one on cucumber growing.

At the recent meeting of the  
Michigan State Academy of Science  
held in Ann Arbor, Dr. Bessey was  
re-elected vice president of the sec-  
tion of botany, and Dr. de Zeeuw  
was also re-elected secretary-treas-  
urer. The next meeting will be  
held at Thanksgiving time instead  
of the first week in April.

The department of physics has  
a new motor generator set arranged  
on a swinging board in such a  
way that same may be fastened  
back under the lecture desk when  
not in use. With the use of a fold-  
ing standard also it is easily brought  
up and held securely on a level with  
the table for instant use. The  
board includes the starter box, rheo-  
stat, meters, and everything com-  
plete, and any desired voltage from  
zero to thirty may be secured by in-  
finitesimal steps, all adjustments be-  
ing easily made on the board. The  
set was designed and built by one  
of our junior engineers, Mr. F. W.  
Temple, and the work exhibits con-  
siderable ingenuity on his part.

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## U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

Over five million farmers receive the weather forecasts daily over the rural telephone, the forecasts being telegraphed by the Weather Bureau to the central offices and thence distributed free to all patrons of the line; most companies being anxious to furnish this service as an inducement to new subscribers. If a farmer has a telephone and does not receive the daily weather forecasts, he should call up central and find out why.

### WEATHER BUREAU WARNINGS OF OHIO FLOODS.

Warnings of the destructive floods that occurred in Ohio, beginning March 25, were telegraphed from the weather bureau office at Columbus to all the principal cities and towns in the districts threatened from twelve to twenty hours in advance. Warnings of the highest stages expected during the present floods in the Ohio and Mississippi rivers have been issued to the principal cities and towns on these rivers from two days to three weeks in advance, the forecast now made for New Orleans being that the river will reach a stage 3 feet 4 inches above the flood stage between April 24 and 30. The River and Flood Service of the Weather Bureau covers every river in the United States where floods dangerous to life and property are liable to occur. Persons residing in threatened districts should put themselves in communication with the nearest weather bureau station.

### FROST WARNINGS TO FRUIT GROWERS.

During the coming April and May the Weather Bureau will put itself in close touch with all the principal commercial fruit-growing regions of the country where damaging frosts are liable to occur and issue advance warnings of temperatures liable to prove destructive to fruit so that, wherever practicable, the various devices for orchard heating and smudging may be put in operation. In some regions, not adjacent to regular Weather Bureau stations, men are sent out to take station in the vicinity in order to insure the effectual distribution of the warnings. Fruit growers everywhere should avail themselves of this service.

Some 15 or 20 agricultural students especially interested in dairying are in training as a judging team and will spend considerable extra time on this work. Much credit is due these men for the interest they have taken in this matter, for the extra work done is entirely without credit, and they are only spending this extra time with the end in view of better preparing themselves for the work which they expect eventually to follow.

Prof. R. L. Nye recently spent ten days in the upper peninsula, assisting R. G. Hoopingarner in his farm management work in Iron Co. He also visited the high schools of Ontonagon and Gladstone, each of which are considering the introduction of agriculture.

Prof. C. B. Smith, '94, in charge of the farm management field work in the U. S., spent nearly all of last week with Prof. Mumford, our state man, looking over conditions in Michigan. They parted at Alpena, Prof. Smith returning to Washington.

The annual spray bulletin by Profs. Eustace and Pettit is now being distributed and there is as usual a heavy demand for this publication. General treatment for all tree and bush fruits is given, and for strawberries and for potatoes. Preparation of spray mixtures is given, together with illustrations showing just how these mixtures may be made. The bulletin is timely and will no doubt be used by thousands of farmers and fruitmen as a guide for the spring work.

The botanical department has just received from the plant introduction field station at Miami, Fla., cuttings of three species of vanilla, which have been planted out in the botanical green house. It may not be generally known that vanilla is a climbing vine belonging to the orchid family. The green stem is about the size of a man's finger, and a root is sent out from every joint enabling the plant to climb very high trees. The so-called vanilla bean is the immature seed pod of the vanilla plant, and must undergo a sweating process, or fermentation, before the characteristic aroma is produced.

A sample of homogenized cream was recently sent in to our Department of Chemistry by J. S. Dixon '86 of the Dixon Testing Laboratory, Chicago, and some interesting data has been worked out by Mr. C. W. Brown of the Department of Bacteriology.

In the test made by Mr. Brown, he finds that the diameter of fat globules in normal milk ranges from .000032 to .0004 of an inch each. Those of the sample of homogenized cream were from .00002 to .00014 of an inch. The average size of the globules in homogenized cream is only about 1/2 that of the fat globules in normal milk. It has been found that the percentage of fat in homogenized cream cannot be determined by the Babcock test as the fat does not separate after the usual treatment. This particular sample of homogenized cream shows 13.88 per cent of butter fat.

'06.

Announcement is received of the marriage on April 16 of Fred A. Farley, '06, and Miss Gladys Wickman, at Winnipeg, Canada. Mr. and Mrs. Farley will be at home after May 1 near Almont.

EVERY reader of the M. A. C. Record is cordially invited to visit our store, use our rest room, telephone, and our mail order department by writing for samples or ordering merchandise; money refunded whenever you are not pleased.

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It is to be regretted that there are some people who have such a desire to see things burn, that they cannot resist the temptation to set fire to every pile of leaves which they approach when no one is about. For the fourth or fifth time during the past 18 months, the pile of dried leaves and brush which has been used in an attempt to fill the hole at the south end of the botanical garden has been fired by some thoughtless person. In previous years the damage has usually been confined to the burning of this matter which had been saved by the botanical department for composting. This spring when the fire was set, the wind was such that same was communicated to the manure heap some distance away with the result that six or eight tons of fertilizer was either destroyed or badly damaged.

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