

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. II.

LANSING, MICHIGAN, TUESDAY, MAY 8, 1906.

No. 33

ATHLETICS.

M. A. C. 3—DE PAUW 1.

On April 30 and May 1 occurred the two games with De Pauw; The home team won the first while the visitors secured the second game. In the first the feature was the pitching by Nies. He did not allow a single base on balls, struck out seven men and played a good steady game. He was backed up in fine shape by the whole team. One three base hit was made by the visitors while Nies and Kratz each secured a two-bagger. The visitors made double plays at two stages of the game when it looked like sure scores for M. A. C. The summary follows:

DE PAUW	R	H	PO	A	E
Allen, 2	0	0	5	1	2
Tucker, c	0	1	5	2	0
Shirley, m	0	1	2	1	0
Plank, 3	1	0	1	1	0
Simpkins, 1	0	1	6	0	0
Douglas, 4	0	1	3	1	0
Mathews, s	0	0	0	3	1
Renick, r	0	2	0	0	0
Rawls, p	0	0	1	3	0
Totals	1	6	23	12	3

M. A. C.	R	H	PO	A	E
Armstrong, s	1	0	1	1	1
Boyle, c	0	1	9	0	0
Canfield, 2	0	1	1	4	0
Ellis, 1	0	1	0	0	0
Thatcher, m	0	1	3	0	0
Kratz, 1	1	2	12	0	0
Bird, 3	0	1	0	2	0
Akers, r	0	0	0	0	1
Nies, p	1	1	1	4	0
Totals	3	8	27	11	2

For the second game the field was rather heavy which prevented good fielding on the part of both teams. Although M. A. C. secured the greater number of hits and filled the bases several times, the heavy pounding did not come at the right time to mean runs. Boyle caught his usual star game, and Akers in the box did very creditable work. Following is the score by innings:

	1	2	3	4	5	6	7	8	9
De Pauw	0	2	0	0	3	0	0	0	x
M. A. C.	0	1	0	0	0	1	0	0	0

M. A. C. 5—HILLSDALE 2.

The team played their first game with Hillsdale on Wednesday which resulted in the above score. Nelson pitched his first college game and did excellent work. While Hillsdale got a number of clean hits, he held them safe at critical times and only gave one base on balls. M. A. C. hit the ball hard all the way through, but up to the 7th it was batted into dangerous territory. The game was won by the good base running and fast fielding. Nies played a star game at right field, getting three flies and throwing one man out at first.

	1	2	3	4	5	6	7	8	9	R	H	E
M. A. C.	0	0	0	0	0	2	1	2	5	6	2	
Hillsdale.	1	0	0	0	0	1	0	0	2	10	8	

M. A. C. 19—ALMA 1

M. A. C. won her first cup game last Saturday by the decisive score of 19 to 1. It was all M. A. C.

from the start. Alma being out-classed in every department, especially in hitting and base running. Alma's one run was scored on three hits and an error by Kratz—their only possible chance for a score. The home team did not score until the third when successive singles by Nies, Boyle, Canfield, Thatcher and Ellis drove in four earned runs. Two more were added in the next inning on singles by Nies and Thatcher and a two base drive by Canfield. Two scored in the sixth on singles Bird and Boyle and another two base drive by Canfield. The real slaughter, however, came in the seventh. Of fourteen men at the bat in this inning, eleven scored. These were scored on a single by Dickson, two two base drives by Armstrong, a two bagger by Thatcher, one for three bases by Bird and a long home run clear to the farthest corner of the field by Boyle. Alma tried three pitchers in this inning but they all looked alike. Clever fielding and hard hitting were the features. Canfield got four hits three of which were line drives for two bases. The Summary.

ALMA	R	H	PO	A	E
Carr cf.	0	1	0	0	0
Shultz 3b.	1	1	5	5	2
Helmer ss.	0	1	1	2	0
Marshall 1b.	0	2	11	0	1
Montieth rf.	0	0	1	0	1
Magidsohn 2.	0	3	2	2	1
Fairman lf.	0	0	0	0	0
Campbell c.	0	0	4	3	1
Johnson-Chambers-McBride p.	0	0	0	2	1
Totals	1	8	24	14	7

M. A. C.	R	H	PO	A	E
Armstrong s.	3	2	0	4	0
Boyle c.	5	3	5	1	0
Canfield 2.	2	4	4	4	0
Thatcher m.	1	3	1	0	0
Ellis 1.	1	2	2	0	0
Bird 3.	1	2	2	0	1
Kratz 1.	1	1	9	0	2
Dickson r.	3	1	1	0	0
Nies p.	2	3	0	2	0
Totals	19	21	24	11	3

Two base hits—Armstrong 2, Canfield 3, Thatcher 1, Carr 1. Three base hits—Bird 1. Home runs—Boyle 1. Struck out—Nies 5, Johnson 4. Base on balls—Nies 1, Johnson 4.

	1	2	3	4	5	6	7	8
Alma	0	0	0	1	0	0	0	0
M. A. C.	0	0	4	2	0	2	11	0

M. A. C. won over Kalamazoo yesterday by the score of 8-9. The game was "nip and tuck" during the first six or seven innings, but at the beginning of the 9th the score was 6 and 8 in favor of Kazoo. Our fellows took a brace in this inning and through good work by Canfield, Thatcher and Ellis cinched the game. Akers pitched an excellent game, striking out fourteen men.

In tennis everything was M. A. C. Gould and Taft winning by a safe margin over the opponents.

Sincerity is the backbone of success.

The foolish faith that clings to a false position is the forerunner of failure.

THE RUGGLES

Have come and gone and taken from all points, including financial, it seems to have been voted a success. The entertainment was, as has been stated, given under the auspices of the King's Daughters, which organization extends sincere thanks to those who so kindly aided in the plan, and especially to those who furnished the excellent music for the program, also to Club B for their kind assistance. The cast was given last week, and for the benefit of those who were not present we give the following:

PROGRAM.

Piano Solo, Miss Freyhofer.

THE BIRDS' CHRISTMAS CAROL.

Act I.

Scene I—Room in the Ruggles' House. Introduction of the Ruggles Family.

Scene II—Same. Preparation for Dinner Party.

Vocal Solo, Mr. Patton.

Scene III—Same. Training the Ruggles Children in manners.

Music—Mandolin Club.

Act II.

Scene I—Dinner Party. Carol Bird's Sitting Room.

Piano Solo, Miss Freyhofer.

Scene II—Carol's Sleeping Room.

Carol's Good Night.

Little Gertrude Babcock as Carol Bird deserves special mention. Her earnest desire that the family should enjoy the dinner was well brought out, and her good night in the last act was especially good.

The total receipts for the evening were about \$88, and of this amount it will be possible to turn to the memorial building fund \$75.

BIRD ARRIVALS.

The following species have been noted in the vicinity of the College since April 15th when the last list was given. The dates given are of first arrivals; in a few cases, however, species probably came earlier than indicated by these dates:

April 16, hermit thrush; April 20, first robin's nest with one egg; April 22, several purple martins; April 24, nest and one egg of mourning dove; April 25, chimney swifts; April 26, house wren; April 29, Baltimore oriole, rose-breasted grosbeak; April 30, barn swallow; May 1, scarlet tanager, wood thrush, warbling vireo; May 2, olive-backed thrush, catbird, black and white warbler, yellow warbler, Canadian warbler; May 3, bobolink, kingbird, brown thrasher, red-headed woodpecker, lesser yellowlegs, bank swallow; May 4, chestnut-sided warbler, magnolia warbler; May 5, yellow-throated vireo, black-throated green warbler; May 6, Maryland yellowthroat, redstart, blackburnian warbler, blue yellow-backed warbler, Nashville warbler, blue-gray gnatcatcher, least flycatcher, greater yellowlegs. W. B. B.

ALUMNI.

'74.

In renewing his subscription to the RECORD Henry A. Haigh of Detroit says "Escaped without calamity with my family from the earthquake at San Francisco, and left the Palace Hotel rather hurriedly without paying my bill." Mr. Haigh is a member of the firm Comstock-Haigh-Walker Co., Engineer-Contractors of Detroit.

'83

Milton St. John is engaged in dairy and fruit farming at Sydonville, N. Y.

'90.

Albert L. Waters of the above class is a mining engineer located at Watchuala, San Luis Potosi, Mexico.

'93.

A. D. Himebaugh is engaged in fruit growing and general farming near Hesperia, Mich.

'97.

Clarence H. Judson, with '97, is a civil engineer with the L. S. & M. S. Ry. at Cleveland, Ohio.

'99

Prof. W. K. Brainard of the West Va. University, is now in Europe making a tour of the agricultural centers. He will visit the great breeding and feeding farms of Great Britain, study the labor and tenant systems and poultry raising. He will make a study of the milk supply of London and Paris, and visit the dairy, butter and cheese industries of Holland and Denmark. In Belgium and France he will study the horse breeding establishments. The results of his investigations are to appear in the Ohio Farmer.

'03

B. P. Rosenberry is a physician located at Winnetka, Ill.

'04.

A. C. Dodge is a mining engineer located at Cerro De Pasco, Peru. His address is Care of Cerro De Pasco Mining Co., Peru.

With '05.

Announcements are out for the wedding of Harry Williamson, '05, and Maud Upright, of Charlotte, on Thursday, May 10. Mr. Williamson has a position in the city and the young people will reside on Cherry street.

Y. W. C. A.

Miss Alma Kenyon led the Thursday evening prayer meeting and was assisted by remarks from Miss Barlow and Miss Pratt. The subject was "Minor Moralities."

This is examination week. Six more weeks and then?

The senior girls spent a pleasant afternoon at Pine Lake on Saturday last.

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TUESDAY, MAY 8, 1906.

The College Woman's Club held the last meeting of the current club year on Monday, April 30th. The yearly reports of the secretary and treasurer were read, showing an increase in membership of 13. The officers of 1905-06 were re-elected for 1906-07 as follows:

President, Mrs. J. L. Snyder; Vice President, Mrs. A. R. Sawyer; Cor. Sec'y, Mrs. R. S. Baker; Rec. Sec'y, Mrs. E. E. Bogue.

After the business was completed the club adjourned, and the members went to a place selected by Mr. Gunson east of the greenhouse, and with the help of Prof. Bogue planted an elm tree. A circle was formed around the tree, and after a "snapshot" the following program was carried out:

"Why We Plant a Tree," Mrs. Snyder.

Poem, Mrs. Kedzie.

We must have a poem, when we plant a tree,

And your committee came swooping down on me.

It is house-cleaning time, else I would flee,

But they captured their victim, poor, poor me.

That your committee will live to rue it, And offer apologies to all who are here;

To the tree, especially, is the thought of your poet,

Which, if they revive, they must spray, I fear.

If it survive this most trying ordeal, If it withstand the shock it must feel,

It will live forever, and into its frame will steal

The sap of life, that makes for woe or weal.

Oh the joy of living! and being a tree, With lovely surroundings, it seems to me

That nothing on earth, I had rather be, Than a stately elm, a great big tree.

With its swaying branches, so lofty and high,

With its graceful contour, mapped on the sky;

With its all-round beauty, where the oriole can fly,

And build his nest, where his young can lie.

Through its leaves will sough the summer breeze,

On its bare branches, the winter's ice will freeze,

But it is strong, and will live on—

And when spring comes, will join the song.

So whether in spring's verdure clad, or in autumn's sear,

We will love our tree, and all who are here, Will love each other, and will shed a tear For some will be gone, from this circle so dear.

But this tree will live on, and under its shade Will saunter the lover, and his lovely maid.

It will tell no secrets, it will keep the tryst And hush never a word, to dear Dean Gilchrist.

Let us here, on this campus, under the sky so blue

Pledge our love and hearts to these friends so true,

So here's to the Woman's Club of M. A. C. And here's to the life of our little new elm tree.

Each member and child present put in a shovel of earth and absent members were represented in the same manner, then all joined heartily in singing "America."

The piano students will give a recital in the parlor of the Women's building next Saturday evening, May 12th, at 7:30. The following program will be rendered, and all who wish are cordially invited to attend:

PROGRAM.

Good Humor, Baumfelder Miss Leta Hyde.

Nocturne, Meyer Helmud Miss Fannie Beal.

Minuet, Seeboeck Miss Nina Brandstetter.

Polish Dance, Thomas Miss Grace Warner.

Will to the Wisp, Jungmann Miss Lelah Burkhardt.

Second Mazurka, Godard Miss Emma Casterlin.

Valse Lente, Schuett Miss Ella McManus.

Scarf Dance, Chaminade Miss Josephine Maveety.

Hunting Song, Heller Miss Elzina Holmes.

Tarantelle, Heller Miss Jean McCoy.

Allegro—Sonata Op. 10, No. 1 Beethoven Miss Irma Himmelberger.

The Butterfly, Grieg Miss Lulu Robinson.

Berceuse from "Jocelyn" Godard Miss Neina Andrews.

Tarantelle, Pieczonka Miss Edwina Prudden.

Neapolitan Serenade Seeboeck Mr. Neal Perry.

Grillen Schumann Miss Irma Himmelberger.

Waltzes { Op. 64, No. 2 } Chopin { Op. 70, No. 1 }

Funeral March from Sonata in B Flat Minor Chopin Miss Lulu Robinson.

Duet—Valse Brillante Moskowski Miss Northrop Mr. Perry.

Y. M. C. A.

The Y. M. C. A. man in politics was the subject of the Thursday evening prayer meeting. Mr. Parsons, the leader, after reading the Scripture lesson and giving a few remarks upon the topic, left the meeting open for general discussion. Each man that spoke called upon his succeeding speaker and in this way many were heard from. The meeting was helpful and interesting.

Sunday morning the Rev. Thomas, of North Lansing Presbyterian church, addressed the students in chapel.

Mr. Herrmann, a former M. A. C. graduate spoke before the Y. M. and Y. W. C. A., in chapel Sunday evening. The subject under discussion was the Christian Man in Business. In the short time given

him the speaker showed the advantages of Christian principles to the business man. Mr. Herrmann is one of Lansing's most successful business men, and his talk was eagerly listened to. A solo was sung by Mr. Patten.

HORT. CLUB.

Mr. C. B. Cook of Owosso, a former student here, spoke on the subject "Strawberries." Mr. Cook is an enthusiastic strawberry grower and gave the club many interesting and valuable hints on strawberry culture. He emphasized the fact that the individuality of the grower determined the methods employed and the varieties used. Mr. Cook uses the "double hedge system" In this system two rows of plants are planted sixteen inches apart and then a space of thirty-two inches between each pair of rows is allowed for cultivation and picking. As soon as runners have formed the new plants are layered and severed by a harrow from the mother plant. This causes fruit buds to form thus increasing the crop. Mr. Cook spoke briefly on varieties, planting, cultivation, layering, mulching and harvesting.

THE NEW ROAD.

Work has begun on the new macadam road between the college and Lansing. The total length to be built, from the city limits to the township line at M. A. C., is about 10,700 feet. From the switch to Harrison Hall it will be 25 ft. from the outer rail to center of the road, and from Harrison the remainder of the distance will be 18 ft. to center of road. The total width of the road is to be 23 ft., of which 15 ft. will be of macadam, with a depth of six inches, 4 ft. on either side being earth shoulder. The crown of the road will be a rise of one inch to the foot or 1 1/2 inches in the center. The work is to be completed by Sept. 1st.

Gas mains are to be extended to the college as soon as the new road is completed so that in the near future we shall be able to make use of the Lansing plant.

FARM DEPARTMENT.

The new horse barn will be placed at the north end of the court which has been formed in refitting the farm buildings. The implement barn will be placed east and west close to the wire fence just south of the farm house between the house and the dairy barn. On the ground floor in the west end will be found the foreman's office, wash room and work room as heretofore, with the same arrangement overhead for the accommodation of the experiment station grains. The balance of the ground floor, 76 ft. in length, will be used for housing the heavier farm implements, while lighter implements and tools will be stored overhead.

The building will be so arranged that there will be two drives through it from the sides and an opening in the east end for the passage of implements. This will also change the drive coming in from the farm lane. The main drive will come in between this barn and the dairy barn, and the scales will be moved and placed on the south side of the im-

POULTRY.

The concrete foundation for the new incubator cellar has been completed. The lumber has been delivered for the construction of the building, which is to be 18x36 with 12 foot studding, which will allow a height of 8 feet in the cellar, and also permit of the construction of a work room above to be used for instruction purposes in the study of incubators and in incubation.

The work of incubation has been in progress since about the 1st of April, and the first hatch was secured last week. Considering the fact that the eggs had to be purchased and subjected to such rough handling as is usual in making shipment the chicks secured from the machine are numerous and vigorous, over 100 having been removed to the outdoor brooders.

A NEW CLUB GAME.

This is new and unique on account of the revised rulings. It calls for a good supply of courage, quick wit, an ever present mind, and an ability to see and act quickly. The winner in this game is the one who can get what he wants and be the first to finish. It is otherwise known as eating. The successful player will be on hand at least five minutes ahead of time, place his back up against the door, and by means of carefully laid plans prevent anyone else from getting his position.

When all is ready and the players come in like a bunch of sheep, he is in the lead. He takes the situation in at a glance and quickly decides what he will make the major part of his meal. As he passes along by the side of the table, he grabs that dish so as to have it when he sits down. At the same time he has planned how he is going to balance up his ration, and by quickly dumping a goodly supply of the first off on his plate is able to get the second dish before anyone else does. If there are any cookies, it would be a good plan to take two or three, as when the plate goes out it may not come back in time.

Most of the places are quickly filled, leaving single vacant chairs for those who were unfortunate enough to be behind. The chairs are usually too close to pass between and too near the wall to be pulled back. But, no time is to be lost, and the player must jump over. Now when the game is fairly on, the players put in requests for the next chance at a dish, and they rightly get them in the order of their application, even though it passes players who were too slow in getting in their requests.

If a dish is applied for at the same instant and is grabbed at the same time, it may go to the one with the strongest grip, but to insist on the matter may cause the players across the table to form a league to prevent you from getting the dishes in the proper order. The game has been won in less than five minutes.—Spragg.

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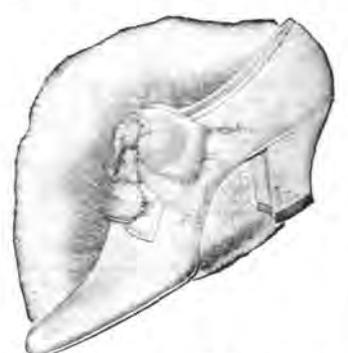
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We have the White Cleaner to make them look like new.

ABOUT THE CAMPUS.

Remember the military Hop on Friday night. The last one of the year.

Miss Norma Gilchrist visited friends in Saginaw a few days the past week.

Messrs. Clark and Norton spent Saturday and Sunday at their homes near Howell.

Beckwith and Race took advantage of the excursion on the 6th to visit Howell friends.

Prof. Holdsworth returned last week from his western trip and is much improved in health.

Supt. F. J. Tooze, of Monroe, visited his nephew, Floyd Stiles, one or two days the past week.

Rev. Ward, of the Plymouth Congregational church, will speak in chapel next Sunday morning.

The first home cup game will be played Saturday with Kalamazoo. "M. A. C.'s going to win that game."

Katherine Clark, '09, entertained her mother, Mrs. Chester Clark, of Dewitt, several days the past week.

Frank Born with '07, who has been out of college this year, will return in September and continue his work.

C. A. Wilson is again at M. A. C. He is working with Mr. Patten in the chemical laboratory of the experiment station.

In base ball Saturday the sub-faculty lost to the seniors, (by a safe score) and the Reds went down to defeat at the hands of the sub-freshmen.

The baccalaureate sermon will be given by Dr. Robert W. McLaughlin, pastor of the Park Cong'l church of Grand Rapids.

A. White '09, was called to his home yesterday on account of the illness of his father. He does not expect to return this term.

Mrs. E. P. Keep and Mrs. Randall, of Tekonsha, were guests of the former's daughter, Miss Lutie Keep, '09, Friday and Saturday.

C. E. Johnson, '05, has resigned his position as building inspector for the College to accept one with the Trussed-Concrete Steel Co., of Detroit.

The track team leaves for Armour Institute Friday night where on Saturday they hold a dual meet with that institute. They return Saturday evening.

Don't forget the military hop Friday night, May 11, from 8 to 12. The ladies will be allowed to apply this party on either half-term. Price, \$1 and \$1.50.

The Y. W. C. A. girls so'd out practically all of their wares on Friday evening and will be able to clear a nice sum for the fund which they were working to raise.

Dr. George N. Carmen, director of Lewis Institute, Chicago, was one of the speakers at the superintendents' meeting held in Lansing last week and visited the College.

The campus is taking on its spring apparel in fine shape. Leaves are showing on nearly all the trees, Many of the shrubs are in blossom and the lawn mower is kept busy.

The following articles have been found and left at the secretary's office: 1 fountain pen, 1 stick pin, 1 brooch pin and one watch. Owners will please call and prove property.

Supt. Bemis was one of the number to visit the college last week. Mrs. Bemis accompanied him and will remain as the guest of her daughter, Miss Bessie Bemis, for a few days.

Mr. Perry Biggs, a recent graduate of the engineering department of the University, visited College friends Thursday. Mr. Biggs is connected with the Edison Electrical Supply Co., of Detroit.

Prof. Fletcher has been asked to prepare landscape design for the grounds surrounding the Carnegie library at Howell. The space to be treated covers one full square and is to be used as a town park.

Mr. Will Ferrill, who has been employed as bulletin clerk for some time, has secured a position as assistant bookkeeper with the Stearns Lumber Co. at Stearns, Ky., and left for his new work last evening. Good luck to you Will.

The commencement address this year will be given by Mr. George H. Maxwell, proprietor and editor of *Maxwell's Talisman*. This paper is devoted mainly to the discussion of rural problems and to the advocacy of country life.

Much regret is expressed by the members of the State Academy of Science at the death of Prof. Russell of the University. He has

been a prominent member of the above organization for some time and was for one year its president.

Prof. Taft recently visited the sub-station at South Haven and reports that apples, pears, cherries and most of the plums are full of blossoms. Except on the higher locations only a partial crop of peaches is promised.

Cross pollenization work is being carried on in the peach orchard of Mr. Henry Neller near North Lansing. The variety chosen for the experiment is Gold Drop, 10,000 blossoms of which will be crossed. A number of students are assisting in the work.

The freshmen baseball team won from the Mason High School Friday by the decisive score of 10 to 3. The feature of the game was the pitching by Nelson. The freshmen hit the ball hard and also showed good team work. The boys report royal treatment at the hands of the Mason team.

A. R. Wilcox was in Detroit last week supervising the planting of a permanent forestry exhibit on the state fair grounds. This plantation is to demonstrate the methods of propagation and planting and kinds of trees to plant as far as practicable. Seeds and trees are used. Fifty-seven hundredths of an acre are now occupied. It is expected that young trees from seed now planted there will be used for extending this plantation each year for several years. A tract of land has been permanently set aside for this purpose.

LIST OF NEW BOOKS IN THE LIBRARY.

Ketchum, Design of Steel Mill Buildings.
 Klocker, Fermentation Organisms.
 Kellogg, Home Furnishing.
 King, Irrigation and Drainage.
 King, The Soil.
 Matterlinck, Monna Vanna.
 Meyer, Railway Legislation in the U. S.
 Merray, Special Method in Elementary Science.
 Medley, Students' manual of English Constitutional History.
 Macy, The English Constitution.
 Mackaye, Canterbury Pilgrims.
 Mann, Evolution of a great literature.
 McLaughlin, Confederation and the Constitution.
 Matthews, Manual of alcoholic ferments.
 Mackaye, Fenris the Wolf.
 Maynard, Successful fruit culture.
 Mallock, Reconstruction of religious belief.
 Merriman, Mechanics of materials.
 Miller, Calculations of analytical chemistry.
 Miloukov, Russia and its crisis.
 Meyer, Government regulation of railroad rates.
 Munsterberg, The Americans.
 Michelson, Light waves and their uses.
 Newman, Bacteriology and the public health.
 Noyes, American Railroad Rates.
 Osterbag, Meat Inspection.
 Osterhout, Experiments with Plants.
 Phillips, Ulysses.
 Powell, Orchard and Fruit Gardening.
 Phillips, The Reign of Gilt.
 Phillips, The Sin of David.
 Pierce, Plant Physiology.
 Quiller-Couch, The Mayor of Troy.
 Rose, The Development of Europeans Nation, 1870-1900.
 Rothwell, Mineral Industry, 1904.
 Richards, God's Choice of Men.
 Rutherford, Radio Activity.
 Richey, Hand Book for Superintendents of Construction, Architects, etc.
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 And laggard complainers are left in the chase;
 Then forge to the front, and be first in the race—
 Just hustle." —Louisa J. Strong.

Report of the weather conditions for the month of April.

Date	Temperature		Amt of Rainfall	Prevailing Wind	Remarks
	max.	min.			
1	41	35	....	E. N.E.	
2	51	30	....	S	
3	57	38	....	S	
4	53	42	....	N.W. W.	
5	42	29	.04	S.W. S.	
6	42	28	....	N.W. N.	
7	53	30	....	S.W.	
8	52	39	.66	E. S.E.	
9	42	40	.14	S.	
10	42	38	....	W. N.W.	
11	52	40	....	S.W. W.	
12	56	40	....	N.E.	
13	64	43	.82	S.E. S.	
14	56	46	.07	W. N.W.	
15	39	38	....	N.	
16	48	30	....	N. S.W.	
17	56	35	....	S.W.	
18	62	43	....	S.W. S.	
19	56	37	.03	" "	
20	60	37	....	W.	
21	51	34	....	N.	
22	44	34	.015	W. N.	
23	50	30	....	N. W.	
24	52	31	S.W. S.	
25	58	41	.35	S.E. N.E.	
26	61	46	.09	S.E.	
27	63	45	S. S.E.	
28	56	39	N.E. E.	
29	62	44	.08	S. W.	
30	60	45	N.W. W.	

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