

The New Hampshire.

Vol. 5, No. 18.

DURHAM, N. H., MARCH 4, 1916

PRICE 5 CENTS

SPRINGFIELD WINS BEST GAME OF YEAR

CLEAN AGGRESSIVE PLAYING CHARACTERIZED BOTH TEAMS

VICTOR BY A SMALL MARGIN

With Score 27-21—Some Clever Passing Done by Visitors—Spectators Appreciate all Good Plays.

New Hampshire was defeated by Springfield Y. M. C. A. Friday evening, February 18 by a score of 27-21. The game was perhaps the cleanest and fastest game this year and both teams share alike the praise which follows such clean sport. The Springfield team early in the second period lost Sorg, its captain. Without him the team seemed much weakened but did not lose aggressiveness. The Springfield forwards, Burnham and Bigler, also played well and the team did some remarkably fine passing. For New Hampshire, Captain Bissell starred; in fact, the whole team played well, and it seems to be a general opinion that the Springfield game was the best of the year—clean and exciting at all times. All good plays were well applauded, whichever team made them.

THE SUMMARY:

N. H. Springfield Y. M. C. A.
Sanborn, rf lf, Burnham
Taylor, rf
Cahalane, lf rf, Bigler
Steele, c c, Ellis
Boomer, e e, Taylor
Bissell, lg, (Capt.) Sorg
lg, Newell

Badger, rg rg, Whalen
The score—Springfield Y. M. C. A., 27; New Hampshire, 21. Goals from floor: Cahalane, 4; Badger, 2; Taylor, Steele, Sanborn, Burnham, 6; Bigler, 4; Whalen, 3. Goals from fouls: Badger, 2; Bissell, Bigler. Referee, Iower. Scorer, Tapley. Timer, Brackett.

N. E. FEDERATION MEETING.

Professor F. W. Taylor and F. S. Prince attended the tenth annual meeting of the New England Federation for Rural Progress held in Fanual Hall, Boston; Thursday and Friday of this week. Professor Fred Rasmussen spoke on "The Essential Dairy Problems," during the course of the meeting.

ENGINEERING SOCIETY MEETS IN COLLEGE CLUB ROOM.

A snappy enthusiasm meeting was held in the College Club rooms, Monday evening, the 28th, by the Engineering Society, at which plans were made to get the most good out of the organization for the coming semester. Professor Porter spoke on the many advantages of the club during the past semester and on its rapid growth. He outlined opportunities for improvement and the need of developing the social side of the student's life. Professor Fisher mentioned some chances for interesting papers by the members on current topics. He offered the use of the college apparatus in student lectures. When called upon for a few words, Steve gave a detailed account of his recent experiences in Dover. He said that he used Hurd's old room in the hotel where he stayed and told an amusing story of being asked for his jack-knife. He handed it over with the remark that the large blade was the sharpest. He was then informed that his knife was required as a matter of form and not for any definite use. Other members of the upper classes were called upon for short talks and offered suggestions for the good of the society. During a short intermission ice cream and cake were served to the seventy members present and cigars were enjoyed throughout the evening.

The College Christian Association will be addressed tomorrow afternoon by Professor A. C. Smith of the Economics department.

SCHEDULE OF EVENTS FOR HOUSE PARTY WEEK

Time to Include from Thursday Evening to Sunday Afternoon—Track Meet and Baseball Game Scheduled.

May twelfth will mark a red letter day in the social history of this college. On account of only one house party coming this year, a Junior Promenade is to be substituted for the former Sophomore Hop. The festivities will begin the evening of May 11 with an entertainment by the Dramatic Club. An attempt is being made to have this put on at Dover, where there are better facilities for the proper carrying out of such an affair. College exercises will be suspended at four o'clock Thursday for the remainder of the week.

Friday morning will be spent in visits to the various college buildings and college property by the house party guests and their hosts.

A dual track meet with Worcester-Polytech is scheduled for Friday afternoon. This will be the second varsity track meet of the season and the first at Durham, thus making it a doubly interesting occasion.

JUNIOR PROM.

The Junior Promenade, Friday evening will constitute the main event of the entire party. Already the necessary committees have been appointed for this affair and careful plans are being made by them to have this ball the best in the history of the college; a social and financial success. Cut and dried methods are being avoided and innovations are planned for decorations, music, invitations, etc.

Saturday morning, tennis games at the fraternity houses and short jaunts down the bay and along the roads and bypaths about Durham will be enjoyed by those present.

BASEBALL GAMES.

Saturday afternoon there will be an opportunity to see the baseball team in action against the Rhode Island State College team.

Saturday evening, the various fraternities will have private entertainments for their guests, mostly dancing. Sunday will offer amusements of a quieter nature, such as walks through Smith Park and Sunday afternoon an enjoyable week end party will come to a close.

The executive committee for the Junior Prom consists of W. H. Hoyt, (chairman), C. C. Bond, R. C. Graham, R. C. Wiggin, E. F. Cutts, C. B. Tibbetts, W. H. Thomas, V. W. Batchelor, R. E. Hodgdon, and H. A. Russell. The names of the members of the sub-committees on invitations are R. C. Wiggin, (chairman), H. A. Russell, R. T. Roberts; Refreshments, C. C. Bond, (chairman), K. C. Westover, A. B. Whittemore, N. E. Robinson, W. H. O'Brien, Miss M. Worcester; floor: W. H. Thomas, (chairman), R. C. Graham, F. W. Fitch, W. P. Knox, S. W. Wentworth, H. R. Meserve, C. W. Lombard, F. W. Westover, C. W. Glidden, P. A. Hayden, H. B. Little, W. A. Dudley, E. B. Nichols, K. C. Westover, A. B. Whittemore, N. E. Robinson, H. A. Russell, J. D. Colomy, A. R. Morgan, R. L. Nelson; Music: V. W. Batchelor, (chairman), E. S. Ross, Miss J. Roberts; Publicity, E. F. Cutts, (chairman), W. H. O'Brien, C. L. Stevens; Decorations, C. B. Tibbetts, (chairman), Boutwell, Burleigh, Miss M. Johnson, Miss P. Blanchard, E. S. Johnson, W. A. Dudley, J. A. Sussman, G. E. Evans, and L. M. Lake.

MAX McCONACHIE, '18, BREAKS THUMB BY FALL ON SIDEWALK.

Max McConachie, '18, was painfully injured last Monday evening by a fall on the icy sidewalk, resulting in a compound fracture of the first joint in the thumb on his right hand. After having it set by Dr. Grant, he was immediately taken to the Wentworth hospital at Dover, where he will remain for a few days.

RADICAL CHANGES IN CHINNING RULES

OUTCOME OF THE EFFECTS OF LAST SEASON

BIDS WILL COME OUT IN MAY

Chinning of Freshmen After Bids are Issued to be Done Away with—Scholarship Requirements

At a meeting of the Casque and Casket Fraternity, March 1, at the Beta Phi house radical changes were made in chinning season. The most important of these is the increase in length to almost the entire school year. A large factor in causing this decided change was the matter of freshman scholarship. While the past state of low scholarship in the entering classes is without doubt largely due to the individual, it is evident that the old rushing season was a contributory factor in the attitude of the new men to their studies.

In increasing the time before a new man can be bid to a fraternity an intensive rushing season is done away with and the freshman has a better opportunity to become acquainted with his classmates and the college at large from an individual standpoint. As an incentive to the freshman to have an active interest in college work, a scholarship requirement is given in rule 6.

Under rules 1 to 5 the chinning of a freshman after he receives a bid is done away with and the new man is forced to take the initiative in deciding which fraternity he shall join in case he receives more than one bid.

These changes are intended to make the pledging of a man to a fraternity more of an incidental matter in his college career and less of a temporary eclipse of other college functions.

THE RULES

We, the undersigned, acting for our respective fraternities, do promise and agree not to invite any student, who has registered in the College for the first time after June 1, 1916, to join our fraternity before 4 p. m. Monday June 11, 1917.

The following rules will be observed.

1. There shall be a meeting of the Casque and Casket the Sunday preceding the second Monday in May, at which time the names of students to be bid to the respective fraternities shall be presented.

2. The Casque and Casket shall send a uniformly worded note to each student whose name has been presented, stating that he has been bid to "one or more fraternities."

3. The students shall present themselves to Casque and Casket at 4 o'clock of the second Monday in May, at a place designated, prepared to give a final answer to the formal bids presented at that time.

4. The student's answer shall be written on a form card and deposited in a sealed ballot box before 5.30.

5. No student shall leave the room until his answer has been deposited. Only students who have received bids and the members of Casque and Casket will be allowed in the room.

6. No student shall be initiated until he has passed 13 hours of College work.

7. No student shall be considered pledged to a fraternity until he wears pledge insignia publicly.

8. The wearing of the pledge insignia publicly binds a man to join the fraternity whose insignia he first wears, and by this he shall never be eligible to membership in the other fraternities of the College.

9. Furthermore, we promise and agree to allow no student, registered for the first time after June 1, 1916 to room or board in our fraternity houses before he is pledged.

10. Lastly, we hereby agree to abide by these rules in spirit as well as in letter.

A printed copy of these rules shall be

NEW HAMPSHIRE OUT FOR RECOGNITION IN BASEBALL

Seven Letter Men and New Material at Hand—Gym. to be Used in Early Practice—Schedule Complete

With a successful basketball season almost completed New Hampshire is now out to win an up-front position in intercollegiate baseball. In an interview, Friday, Coach W. H. Cowell said: "More than a hundred men are bound to come out for the team when practice begins, and according to Hoyle, or Babson's statistics, at least nine of that number will prove themselves ball players. All in all, it seems to me we are going to have a first rate team."

PRACTICE COMMENCES.

March 9, Captain R. H. Bissell will call out the battery candidates. The gym will afford adequate facilities to work out these men and also give the entire squad of candidates for the team a chance to limber up their arms. Great expectations are held for last year's high school stars who are said to be lurking in the recesses of the Freshman class.

Seven of last year's lettermen are available for the 1916 team. These are Bissell, (captain), Meserve, "Skeet" Irvine, Broderick, Brackett, Humiston and Blatchford.

Manager W. J. Nelson has succeeded in filling the open dates on the previously announced schedule. The date of Rhode Island's appearance here has been shifted from June 3 to May 13, thus making the game an added attraction for "Prom Week." Another alteration is the addition of a Norwich game May 9, played in Durham.

SCHEDULE.

The complete schedule is as follows:

April 11 University of Maine at Durham
Dartmouth at Hanover.
Norwich at Northfield.
21 Middlebury at Middlebury.
Vermont at Burlington.
29 Worcester Polytech at Durham.
May 7 Bates College at Durham.
5 Brown at Providence
6 Rhode Island at Kingston.
9 Norwich at Durham.
13 Rhode Island at Durham.
17 Lowell Textile at Lowell.
20 Bates at Lewiston.
24 St. Anselm's at Manchester.
27 Connecticut State at Durham.
30 Springfield Y. M. C. A. at Durham.
June 6 Worcester Polytech at Worcester.
13 Sophomore-Freshmen.

STUDENTS ATTEND LEAP YEAR SOCIAL AT CHURCH PARLORS.

A large number of New Hampshire students enjoyed the leap year social held in the church parlors Tuesday evening. The first part of the evening was spent in playing games, being followed by a short program. Fiano solos by Miss Benson and vocal selections by Miss Roberts were heartily applauded. Refreshments were served and then the remainder of the time was spent in singing college songs.

given to each new student.

Zeta Epsilon Zeta
W. T. Tapley
Kappa Sigma-Beta Kappa Chapter
P. S. Ward.
Beta Phi
R. J. Bugbee
Theta Chi-Zeta Chapter
G. W. Chase
Gamma Theta
L. A. Hawkins
Alpha Tau Alpha
C. A. Gordon.

HAVE 1916 CROPS ON FERTILE LAND

THIS IS NOT THE YEAR FOR USE OF EXTRA FERTILIZERS

ENOUGH POTASH IN N. H. SOILS

Experiment Station Men Draw Up Set of Maxims About Fertilizers for Coming Season.

Although the European War is being waged about 4500 miles away, its effects will be felt this season by every New England farmer who buys commercial fertilizers. The situation in regard to our present supply of plant food materials is a serious one and demands careful consideration.

For the purpose of securing all the information possible on the subject and for devising "ways and means" to meet some of the unprecedented and unforeseen problems which have arisen this year, a conference was held recently in Boston by representatives of the agricultural experiment stations of the New England States, of New Jersey, and of New York. The statements and suggestions as given in the following summary represent in the main the consensus of opinion by the members of this conference.

(1) Select your best and most fertile fields for cropping this season. This is not the year to build up poor soils by extra fertilization.

(2) Conserve and use carefully your home supply of stable manure and wood ashes. If you buy ashes do so only on a guarantee of the percentage of potash. Good, unleached ashes should contain at least five percent of potash and are worth not more than \$10 to \$12 per ton.

(3) Get quotations on unmixed materials, also on ready mixed brands. Do a little figuring, and if you can save enough to pay for your time and bother of mixing, buy the unmixed materials.

(4) High grade brands cost more than the low grade, but they furnish plant food at a less cost per pound, and are to be preferred.

(5) Do not purchase lime as a substitute for fertilizer. Lime may be of some benefit but it is not a plant food.

(6) Beware of alleged fertilizers rich in insoluble potash made from ground rocks (feldspar and granites).

(7) There are no real substitutes for potash, although some materials like salt, nitrate of Soda and land plaster will, under certain conditions, tend to liberate some of the soil potash. The use of any of these materials, however, in amounts exceeding two hundred pounds per acre is not advised.

(8) Do not worry about the lack of potash because most New Hampshire soils (particularly the clays and loams) are already well supplied. This element of plant food is not to be had this year and we probably will not miss it much anyway.

(9) Pay cash if possible for all the fertilizer you buy, and remember that this is the season when we will have to count on stable manure, tillage, good farm management, and rainfall to do at least a part of the work which we have heretofore assigned to commercial fertilizers.

These facts may be obtained in Extension Circular 17, now on the press, and written by F. W. Taylor, dean of agriculture at the college.

RECOMMENDATIONS.

Professor Taylor has the following specific suggestions for crops:

1—For top-dressing grass, use 150 lbs. per acre of nitrate of soda or 125 lbs. of sulphate of ammonia or cyanimid or 300 lbs. of a "6-8" brand of ready mixed fertilizer.

Continued on page 4

"HAM THE HATTER"

The New Hampshire.

OFFICIAL ORGAN OF
THE NEW HAMPSHIRE COLLEGE
Published Weekly by the Students.

NEWS DEPARTMENT

W. E. HOWARD, JR., '16 Managing Editor
E. F. CUTTS, '17 News Editor
W. H. JEFFERS, '18 Assistant News Editor
E. L. BLAKE, '18 Editorial Writer
S. W. DYER, '16 Alumni Editor
R. W. HUSE, '18 Athletic Editor
MISS HELEN F. TILTON, '17 Society Editor
H. F. JENKINS, '17 Exchange Editor
H. W. DEGNAN, '17 Reporters
P. BATCHELDER, '18
H. C. MAIN, Special
L. M. CROUCH, '17
J. A. PURINGTON, '16
O. C. WORK, '16.

BUSINESS DEPARTMENT

V. H. SMITH, '16 Business Manager
L. E. MERRILL, '18 Assistant
C. H. DUSTIN, '17 Assistant

H. H. SCUDDER, Faculty Adviser
PROF. C. E. HEWITT, Faculty Bus. Mgr.

Subscription price, \$1.00 Per Year
Single Copies 5 Cents.

Subscription checks made payable to THE NEW HAMPSHIRE, Durham, N. H.
Subscribers not receiving copy will please notify the Business Manager at once.

Entered as second-class matter October 30, 1914, at the post-office at Durham, New Hampshire under the act of March 3, 1879.

DURHAM, N. H., MAR. 4, 1916

EDITORIALS.

VANDALISM.

Last fall an article appeared in these columns calling attention to a deplorable selfishness or thoughtlessness on the part of certain individuals who mutilated periodicals in the public library. It now seems that this petty vandalism has again been committed. Articles on the Glee Club trip have been removed from several of the weeklies, so that many who desired to see these articles were deprived of their right to do so.

The smallness of the man who is so inconsiderate of others' rights is almost beyond comprehension. It would have been so easy to have requested the paper from the librarian after it had been read. Unless the paper was kept on file, and this is not true of most of the weeklies, such a request would have been cheerfully granted as it is the policy of the library that every privilege shall be extended to its patrons. But the individual had to make of himself a petty criminal and transgress the rights of his fellow. However he may try to condone his offense, everyone has their opinion of such a person, and it is not a favorable one.

FROM A SENIOR.

On April 1st or thereabouts, if all goes well and good, The Junior Granite will come out; at least 'tis said it should. And if it don't, well never mind, the editor will rave. While we poor boobs count up the cash that we were told to save. But if this book comes out on time;—the board all says it will; That hard-earned cash will surely help, the '7 vaults to fill. They say it is an even swap, of Granite versus money, Because the "kind" words in that book will be like oozing honey, And all the pictures it contains are worth their weight in gold. Because they represent the things, that are but can't be told. Moreover, as the years roll by, if such a book you own, How many uses it will serve within your little home, Your wife can use it for a weight to keep the door tight shut, And you can heave it like a brick, if bothered by the pup. The kids will also like that book because it shows your face, And neighbors will enjoy the jokes about our ancient race. Buy then a Granite for yourself; another for a friend, And it will be a source of joy, from frontispiece to end.

The 1917 Granite will be out one short month or so before the Junior Prom. A Granite is a necessary article of entertainment for a house party guest. Get one and show "her" how many offices you hold.

CLANK—BANG!

On wintry windy mornings,
O'er paths like unto glass,
I hie me from my snug retreat
And amble up to class.

Well, when I've reached my class-room
At the libe or at T Hall,
I fix attention on the Prof.,
Lest he on me should call.

Then every radiator
Begins to roar and bang
This causes keen discomfort and
I lose the Prof's harangue.

Why must that heating system
Be so loud and so persistent?
With our usual academic calm
Methinks 'tis not consistent.

ONE PER MINUTE IS THE RATE OF BIRTH.

A certain Sophomore sergeant is learning not to believe all he hears. Realizing his innocent condition and that something was needed in his education, several officers in the military department filled him full of tales about the the artillery organization shortly to be formed in order to make use of the field gun stored away at the college armory. With the characteristic pep and initiative of a member of the '8 class he saw that a sergeant's job was too small for him and rushed to the commandant in order to get in on the ground floor to the new organization. He returned a sadder if not a wiser man.

GYPSY MOTH SURVEY TO BE MADE BY PROF. W. C. O'KANE

Prof. W. C. O'Kane of the department of entomology, in charge of the state campaign against the gypsy and the brown-tail moths, is planning a survey of the southern part of the White Mountains to determine to what extent the forests there are resistant to the gypsy moth. The spread of this pest is toward the north, and a first hand knowledge of the forest conditions is essential if proper precautionary measures are to be most economically taken.

Prof. O'Kane intends to go on foot from Wonolancet over the mountains to Waterville; from there over the mountains to Lincoln, and from there over the mountains to Livermore, ascending Mt. Carrigan on the way. This peak is one of the most remote and most difficult of access of any in the White Mountains. From Livermore he will go over into the Swift River region and thence back to Wonolancet. He estimates the trip will take about two weeks.

It will be impossible to take even a pack animal over some of the route and provisions will be carried by hand. Prof. K. W. Woodward of the forestry department will be another of the party, and E. C. Hirst, the state forester will make the trip if his engagements permit. The start from Wonolancet will be made sometime in July.

DINNER AT SMITH HALL TO HONOR Y. W. C. A. ANNIVERSARY.

The dining room at Smith Hall presented an unusually festive appearance Thursday evening, when a dinner was held in honor of the fiftieth anniversary of the Young Women's Christian Association. The room was decorated with flowers and the tables bore menu and place-cards of white and gold. Singing of Y. M. C. A. songs at the beginning and close of the meal was also a feature of the occasion. The menu was as follows: tomato soup, roast lamb, mashed potato, French peas, vanilla ice cream, cakes and coffee. The dinner was followed by a birthday service which was led by Miss Nettie Finley, president of the local organization.

PRESS BULLETINS READY.

Press Bulletin No 58, written by L. A. Carlisle on "Boys and Girls' Club Work," is ready to be distributed. The article discusses the history, objects, the club and the general requirements of the members.

Press Bulletin No. 57 written by Director, J. C. Kendall entitled "Other Counties Should Organize for County Agent Work," is also ready for circulation.

Thursday, March 2nd, Professor Fred Rasmussen attended a meeting at Boston of the men in charge of State College dairy departments in the New England states to discuss dairy problems of interstate importance.

LECTURE COURSE PRESENTS DOROTHEA NORTH, SOPRANO

Large Audience Listens to Well Chosen Repertoire of Songs in Five Languages

Dorothea North, a singer, well known in musical circles, furnished the evening's entertainment for the fifth number of the college lecture course, given on Saturday evening, February 26, in the gymnasium.

Miss North has a soprano voice of pure quality, wide range and considerable volume and in commanding it she showed remarkable skill. The program consisted of 9 selections, all classical or semi-classical. In addition to the English songs, Miss North showed an usually pleasing command of French, German, Italian and Spanish and the songs in these languages drew spontaneous applause. The audience showed its appreciation throughout the evening by the closest attention and by enthusiastic applause. Owing to the original length of the program, Miss North responded to no encores.

Mrs. Clara Raymond of Newburyport, Mass., accompanied Miss North in a most sympathetic manner. Mrs. Raymond is a pianist of unusual skill, and her instrumental execution of the selections gave an artistic setting for Miss North's effective vocal interpretations.

PURE BRED AYRSHIRE CALVES FOR BOYS GROWING BEST CORN.

Professor Taylor went to Hooksett last Thursday to meet a committee of the New Hampshire Ayrshire Breeders' Club relative to a Boys' Corn Growing Contest during the coming season. The Ayrshire breeders have signified their interest and belief in corn growing in the old "Granite" state and also their willingness to co-operate with the Boys' Club Work of our Extension Department, to the extent of offering a pure bred, registered Ayrshire bull calf to the winner of the contest in each county of the state.

After the winners in the various counties have been announced, the calves will be forwarded with transportation charges prepaid and registry papers for each of them made out in the name of the winner.

PROF. O'KANE TALKS AT BETA THETA PI BANQUET IN BOSTON.

Professor W. C. O'Kane of the Department of Entomology was one of the speakers at the Annual Banquet of the New England members of the Beta Theta Pi in Boston, March 3. His subject was "The New Frontier." The frontier is New England agriculturally, Professor O'Kane holding that agricultural progress in the United States, having started in New England and gone to the Pacific Coast is starting out once more and that pioneer conditions now prevail in parts of the Atlantic coast region.

SHOULD A HIGH SCHOOL BE ESTABLISHED HERE IN DURHAM?

Henry C. Morrison, State Superintendent of Schools, will give an illustrated lecture in the college gymnasium the evening of Tuesday, March 7. His subject will be the high school and he will touch upon the advisability of establishing a high school here.

This subject is one which has often been considered here, as students of high school age now are sent to the school in Dover six miles away. In the afternoon at three o'clock, Mr. Morrison is to meet the faculty of the college for a discussion with the members of some of the educational problems of the state.

SELFISH MUTILATORS DEPRIVE PUBLIC OF THEIR RIGHTS.

Several of the periodicals and papers filed in the library have been mutilated within a few days, reports the librarian, Miss Emerson. Someone cut a clipping from "Life," and several have been taken from other papers, principally weeklies containing articles on the Glee Club trip and basket ball. The perpetrator of the offense against "Life," is known to the authorities, and it may be just as well that those who abused their library privileges by cutting up the other papers, are unknown. Some of the articles were cut from material that is carefully filed, while other came from papers that could have been obtained for the asking after the public had been given an opportunity to read them.

A Good Chiffonier

is the most convenient article one can have in the sleeping room. We show many patterns with

Six Good Romy Drawers

and a fine mirror. Prices \$10.75 to \$25.00. Chiffoniers without mirrors as low as \$5.75.

E. Morrill Furniture Co.,

Dover, N. H.

Everything for Students' Rooms.



UNIVERSITY OF PENNSYLVANIA ADDS TO CHINESE COLLECTION.

A remarkable addition has just been made to the Chinese collection at the University of Pennsylvania's Museum through the purchase of two porcelain horses dating from the T'ang Dynasty, or about the 7th century A. D. The porcelains are about 18 inches high and are reproductions of some famous horses belonging to the stable of some emperor or prince of ancient China. These "spirit horses" were buried with the owner of the animals they portrayed, so that in death he might have the companionship of his favorite steeds.

According to experts, these porcelains are among the most extraordinary of the comparatively few pieces of the sort that have come down from the T'ang Dynasty at a period when Chinese art was in its flower. It was only recently that any specimens were recovered, and the Lohan in the University Museum is the most notable of these. Gradually more are being recovered from tombs and caves and these specimens have entirely changed former ideas of Chinese art.

One of the Museum horses has a glaze, while the other has not. Both are life-like to an extraordinary degree, but it is a peculiar fact that, while the bodies of both have the stocky appearance of a Percheron-Norman, the head of the glazed animal is of a marked Barbary type and the other is of heavy Norman type. It is said that the emperors of China imported Arabian horses at enormous expense for their own use, while the common people used the small Manchurian pony.

COTRELL & LEONARD ALBANY, NEW YORK



MAKERS OF
CAPS, GOWNS
and HOODS

To the American colleges and universities from the Atlantic to the Pacific—class contracts a specialty.

LOTHROPS-PINKHAM CO.,

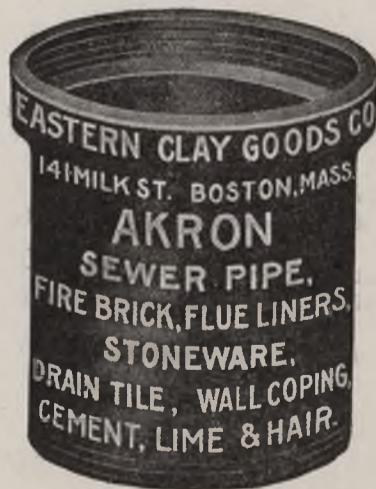
Leading Pharmacists,
Franklin Sq., Dover, N. H.
Agents for Kodaks and Photographic Supplies
Dealers in Wall Paper, Room Moulding and Window Shades.

ORPHEUM THEATRE,

DOVER, N. H.

PICTURES AND VAUDEVILLE.

Fox Metro Pictures.



Dover Dye Works

Dyeing, Cleaning and Pressing.
Satisfaction Guaranteed

All Orders Given Prompt Attention.
Telephone 379-M. J. C. RULE, Prop.
31 Broadway, DOVER, N. H.
C. C. DUSTIN, '19, AGENT FOR DURHAM

Telephone 884 Richmond.

KENT BROTHERS

Wholesale Dealers in

Beef, Pork, Lamb and Veal POULTRY

Hotel and Restaurant Supplies
21 1-2 John St., Boston, Mass.

Page Engraving Co.,

Halftones, Line Cuts, Etc.
Satisfaction Guaranteed.

135 Sixth Street, Dover.
Telephone 362-W

F. H. BURGESS, Photographer.

All the New Styles.
Views, Groups, Etc., Special Rates for Class Work.

412 Central Ave., Dover

"THE BEST AMERICAN MAKE"



an **Doncaster ARROW COLLAR**
2 for 25c
Cluett, Peabody & Co., Inc., Makers

ESTABLISHED 1876



Cream And Dairy Products

General Offices and Chemical and Bacteriological Laboratory,

494 Rutherford Ave., Boston

The Largest Independent Dairy Co. in New England.

Batchelder & Snyder Co.

Packers and Poultry Dressers
Blackstone, North & North Centre Streets, Boston, Mass.

Work Satisfactory Service Prompt

Tel. 307-M

No. 1 Waldron Street, Cor. Central Avenue

GEORGE N. COOK,

(Successor to Fred H. Foss)

-Fine Stationery.-

Special for N. H. College.
Dover, New Hampshire

Massachusetts Mutual Life Insurance Company

CHARLES H. CUTTER, AGENT

Masonic Temple, DOVER, N. H.

GRAND PRIZE

(ONLY HIGHEST AWARD)



DE LAVAL

-Cream Separators-
PANAMA-PACIFIC EXPOSITION



Likewise at

St. Louis, 1904 Buffalo, 1901
Paris, 1900 Chicago, 1893
And every world's exposition since 1879

THE DE LAVAL SEPARATOR CO.,

165 Broadway, New York. 29 E. Madison St., Chicago.

50,000 BRANCH and LOCAL AGENIES the WORLD OVER

GEO. J. FOSTER & CO., Printers and Publishers

Largest Job Printing Plant in Southern N. H. Estimates on all kinds of Work

Also Publisher of Foster's Daily Democrat and Weekly Democrat and Enquirer.

335-337 Central Avenue,

Dover, N. H.

This paper was Monotyped at this office.

Plan to get your Spring Suit here. The Royal Tailor line can not be criticized and you are guaranteed absolute satisfaction.

"COLLEGE SHOP"
"MAKE THAT SHOP YOUR SHOP"

COPLEY SQUARE HOTEL

Huntington Ave., Exeter and Blagden Sts., Boston, Mass.

Headquarters for College Men When in the City.

AMOS H. WHIPPLE, Proprietor.

-Strafford National Bank-

DOVER, N. H.

Safe Deposit Boxes for Rent. American Bankers' Association Money Orders for Sale.

S. RUNLETT & COMPANY,

DEALERS IN

GROCERIES, PROVISIONS, CIGARS,
CIGARETTES AND CHOCOLATES.

DURHAM,

NEW HAMPSHIRE

George D. Emerson Company.

Wholesale Grocers.

The largest Distributors in New England of High Grade Fruits and Vegetables in No. 10 cans.

Boston, - - - - Mass.

Dr. W. W. Hayes. Dr. E. A. Shorey.

Compliments of

DENTISTS

Brackett's Lunch,

Confectionery, Tobacco, Cigars and Ice Cream.

Strafford Banks B'ld'g. Tel. 61-1

Durham, N. H.

LEIGHTON'S CAFE! Leighton's Barber Shop.

Try Our

Special Sunday Dinner.

No wait in his shop as he always has chairs enough to accommodate the crowd.

NEWSY ITEMS OF THE ALUMNI.

DAUGHTER OF TRUSTEE ADVANCED IN DENVER

Has Charge of Library Extension Work—Comments—A Word With the Alumni.

Miss Ruth E. Thompson, ex '12, recently placed in charge of the extension work at the Denver Public Library, is in addition now detailed to show the firms of that city how the library can be made a practical aid in business.

Miss Thompson will study the special needs of each firm and, owing to her knowledge of the many resources of the library, will be able to give valuable advisory assistance.

Her father, Lucien Thompson, was for twenty-one years a trustee of the college.

In describing the ski-jumping at the Dartmouth Winter Carnival, the New York Evening Post says:

"The course runs from the top of a mountain down a forty-five degree slope until at a sharp break in the descent appears a platform. Arriving at this take-off, the ski-men launch themselves into the air, and flying downward and outward from sixty to a hundred feet, alight on the hard snow and skim out of sight. Even the ordinary jumpers provided thrilling spectacles, but when Paulson of the New Hampshire State college turned a double somersault shortly after shooting from the takeoff, then landed on his feet and continued his course safe in limb and body, even the movie men forgot to turn their cranks, whereupon Paulson obligingly repeated his feat, with new features and additional flourishes. It is clear that there is an art to skiing.

Two weeks ago, H. B. Patchelder, '03, was sent by the National Carbon Company of Cleveland, Ohio, to the Naval Advisory Board as expert on searchlight carbons.

Mr. Patchelder specialized in chemistry in his undergraduate work.

Alumnus—You turned immediately to this column on receipt of the New Hampshire. You wanted to know what other alumni are doing. Do you realize that they feel the same about your doing and efforts? Was it your neglect that is responsible for the small amount of alumni news this week? If it was, now is the good and acceptable time to turn over a new leaf. Won't you do it now?

CHALLENGE, A NEW MAGAZINE OF BEST COLLEGIATE THOUGHT

Independent collegiate thought on all subjects will be launched in the new monthly magazine, "Challenge," representative of students of United States universities and colleges. Any student contribution of literary merit making a definite point and carrying a pertinent idea will be accepted unhesitatingly and given such space as its importance justifies. The first number of the new periodical has just been issued. Among other features it contains an article on preparedness, an open letter to college girls, a war play and several poems and essays. It is published at Columbia University and the subscription price is one dollar.

PROF. HEWITT GOES TO UTICA AS A CONSULTING ENGINEER.

Another city in the state of New York, being in need of the services of an electrical engineer, from whom to get advice on a very important municipal matter, has called upon the Engineering Division of New Hampshire College. Professor C. E. Hewitt was called to the city of Utica in that capacity. He left Durham last Saturday and returned on Wednesday. Professor Hewitt served as consulting engineer two years ago for the construction of two municipal electric light and power stations, one at Chatham, New Jersey, and the other at Watkins, New York.

FIELD CROPS TROPHY HERE.

The first prize trophy cup won by the college Field Crop Judging Team has been received. The cup was, and will be in the future presented by the New England Association of Agronomists to the winning team.

METHOD OF REGENERATING STORAGE CELLS SUCCESS

Has Been Problem of Men in All Walks of Life—American Practice Backward—Results of Research.

The care and utilization of storage cells has been the problem of men in all walks of life. The farmer who operates his own lighting system, to the business man who drives his own automobile has been given great discomfort when he found that the depleted storage cell must be replaced.

The American practice in regenerating the exhausted storage cells has been very backward.

CHIEF TROUBLE.

The chief cause of all of this trouble is due to an attempt to obtain more electrical energy from the cell than was originally expended upon it. The result is that a portion of the grids are converted to a white crystalline solid known as lead sulfate. This is very insoluble and is a non conductor of electricity. Accordingly, a portion of the active constituent is removed.

It has been known for a long time that the passage of a low charging current through a partially sulfated cell for a long period proved beneficial. The cost of electrical energy makes such a treatment nearly prohibitive. The wisest method of regeneration seemed to be dependent upon an electro-chemical reduction of the sulfate.

PROCEDURE.

Some of the chemical senior research for the past few years has been along these lines. Exceedingly efficient results have been obtained by replacing the battery acid with a solution of sodium sulfate of a concentration of one half pound of the crystals per quart of water. Two auxiliary anodes should be used on the extreme outer sides and the passage of a normal charging current for forty to fifty hours will serve to eliminate the last traces of sulfate in even a very bad cell. The sodium sulfate can then be replaced by the usual battery acid. Since small amounts of sodium sulfate have no detrimental effects upon the action of the battery, it is not necessary to remove the last trace before the final addition of acid.

COMPLEX REACTION.

The theory involved in this seemingly complex reaction has also been worked out. In briefest terms the reduction is caused by the formation of sodium hydroxide during the electrolysis of the sodium sulfate solution. This is a solvent for lead sulfate. Accordingly, a multiplicity of microscopic concentration cells are set up within the grid. The reduction follows and an efficiency of nearly 100% can always be obtained. Here theory and practice are in full accord, yet it required a goodly amount of research to clear up the reaction.

ENGINEERS NEED TRAINING IN ANALYSING PROBLEMS.

In a questionnaire letter recently sent to teachers of mathematics and professional subjects and to professional engineers the following information was asked for:

"Number 1, 2, 3, etc. in order of importance the following pertaining to the qualifications of the engineering student who has completed the course in freshman mathematics:

- Skill and accuracy in computations.
- Analysis of problems.
- Interpretations of results in solution of problems.
- Knowledge and use of equations.
- Representation of physical laws by means of graphs.

"In which of (above) do students who have completed their freshman year show the greatest deficiency?"

The result of the replies to the first of the above indicate that (b)—Analysis of problems—is of most relative importance. The replies to the second showed that students who have completed their freshman year are most deficient in ability to analyze problems.

The above data, which is due to Dr. T. Lindquist, presents to the teacher of mathematics for engineers a most serious problem, viz., How may the best training be given to the freshmen student in that which will be of most importance to his future work?

Someone has said that "the most adroit teacher is the one who can so marshal his ideas that the most practical will be most prominent." Might not the problem in question be partially solved if teachers of mathematics both in high school and college tried to be more "adroit?"

OLD DURHAM POUND BUILT MORE THAN 200 YEARS AGO

Its Keeper Has Done No Business for 50 Years—Once Made Good Pay From Office.

Have you ever noticed that little pen surrounded by a stone wall, out on Eroth Hill, with the inscription "Town Pound," over the opening, and out in the upper right hand corner the letters "Built in 1709; rebuilt in 1808; repaired in 1908?"

On the knoll almost directly opposite Conda J. Ham's residence on Broth Hill, in front of the barn now used by Mark Willey is the site of the old Town Pound. It was built in 1709 shortly after Durham village was settled, so that any stray cattle that were found could be shut up until the owner called for them. It is still there for that purpose but it has not been used for over fifty years. The people used to hire a Pound keeper to attend the animals confined there and to collect the fees which amounted to about \$2.50 a day.

No records could be found as to why it was rebuilt in 1808 but it might be supposed that it being a loose wall would be easily thrown down by the winter frosts and by age. It is built of split granite slabs, piled as closely upon each other as possible without any cementing material between them, so it is not as stable as it might be.

At the second centennial anniversary of the building of the Pound it was again repaired, by Dan Chesley, through the influence of the Rev. William Beard, then pastor of the church in Durham and President of the Village Improvement Society. At that time it was put in first class condition and the dates inscribed on it so as to keep it of historical interest.

CONSTITUENTS OF COAL AND THEIR RELATIVE FUEL VALUE.

Volatile matter, fixed carbon, and sulphur, ordinarily do not enter into consideration in making contract specifications for the purchase of coal. Pound for pound, volatile matter, as a rule is likely to have quite as high or a higher heat value than the fixed carbon. Modern steam generating appliances should be able to burn one form as efficiently as the other. House heating appliances, however, utilize a relatively low proportion of the volatile material. In the main, this constituent distills off into the air with but poor or partial combustion, and appears at the chimney top in the form of black smoke. For this reason the higher fixed carbon coals are better for domestic use than those high in volatile matter. Ash content, density, and sulphur also enter into the account.

Sulphur is present mainly in the form of iron pyrites, and is detrimental to the value of the coal, especially after its first stage of reduction to ferrous sulphide, FeS. This change occurs at relatively low temperatures, from 750 deg. to 900 deg. Fahr., and produces an easily fusible ingredient which promotes slagging and the formation of clinker. Sulphur is not without some virtue as a heat-producing constituent, however, but its value is low, having a little over one third of the heat of an equal weight of carbon and about one fourteenth of an equal weight of hydrogen. Sulphur may be a constituent of coal, varying in amount from one to six percent, and, because of its chemical form and properties, should be looked upon as an ingredient essentially different from the organic matter of real combustible material—Bulletin 29, Illinois State Geological Survey.

BULLETIN FOR HOME GARDENER

TO BE ISSUED BY J. B. SHERRER.

J. B. Sherrer, instructor in vegetable gardening, is preparing a bulletin to assist the home gardener, whether in the city or country, to attain more nearly the ideals so alluringly depicted in the seed catalogs.

Being written from the New Hampshire point of view, it gives reliable information on the best varieties of vegetables and complete instructions as to their culture and protection from insects. Some space will be given to the construction of cold frames, hot beds, etc., and the growing of plants under glass.

The pamphlet will probably be published in March and is expected to anticipate many of the inquiries that annually flood the horticultural department.



Now if you want to avoid being a wall flower here are the togs to put you in the front row.

If you mean business, here are business suits.

For an afternoon affair here is the black cutaway, white vest and striped trousers.

For evening, full dress suits, silk lined irresistible in their way.

Let us dress you in the most attractive clothes and shoes.

Lothrop-Farnham Co.

W. S. EDGERLY, The General Store.

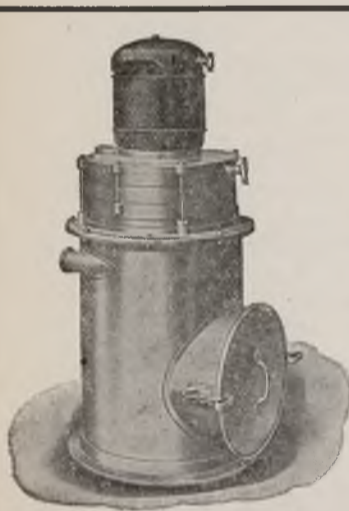
Come in and see our new line of College Pins, Fobs, Cuff Links, Etc. at reasonable prices.

Durham, N. H.

Good Northern Grown Trees and Plants.

Apple Trees No. 1, 5 to 7 ft. Baldwin, McIntosh etc. \$25 per 100. Pear, Peach, Plum, and Cherry trees at low prices. Grape Vines, strong 3 year plants \$2.00 per 10. Raspberry and Strawberry plants in the best sorts, including the Fall Bearers. Hardy Roses, Porch Vines, Shrubs, Street and Lawn trees. Our varieties include the best for Northern New England. Highest quality, moderate prices. Write today for our New Spring Catalog.

THE GRANITE STATE NURSERIES, Durham, N. H.



Spencer Turbine Cleaning Systems.

A permanently installed cleaning system for schools, churches, hospitals, residences, public buildings, etc.

This system is installed in many of the finest buildings of all kinds throughout the country, and a list of thousands of users will be furnished as references on request.

The Spencer Turbine Cleaner Co.

Hartford, Conn.



THE CHURCH IN DURHAM.

Preaching 10:45 a. m.

Bible School 12:00 noon

The Rev. Mr. Warren of Hampton will speak Sunday.

ALL WELCOME

RESULTS OF ROOM AND BOARD INVESTIGATION

Separate Room Cards Used—Leaders are Fairchild Hall as Rooming House and Beta Phi as Boarding House

The results of the investigations by the Student Welfare committee into rooming house and boarding house conditions in Durham have at last been made public. The score card used in rooming house inspection is as follows: halls, 5, rooms—general condition, 20, condition of clothes closets, 3, bedding, 5, ventilation, 10, utilization, 5, toilet facilities, 12, condition, 8, basement, 10, outside of house 15, fire risk, 5, and sewer connections, 2, these points totaling 100. It was found that first place was assigned to Fairchild Hall, with a score of 90.5 percent. Second came the Kappa House, followed in turn by the Gamma, Zeta, A. T. A., Beta, Theta, Meserve, Crescent, Pettee, Union, and Commons Club houses.

BOARDING HOUSES.

In the boarding house inspection the score card used was: Kitchen—general condition, 15, sinks, 5, screens, 10, food storage—refrigerator, 10, other storage, 15, milk, 5, pantry, 10, garbage, 10, dining room, 10 and rubbish, 10, or a total score of 100 points. It was found that the Beta Phi house led with a score of 81%, followed in order by A. T. A., Gamma, Theta, Meserve, Zeta, Thomas Kappa, Union, Crescent and Common's Club boarding houses.

RADICAL CHANGE MADE IN CHOICE OF COLOR COMPANY

It has been decided that credit toward the colors in the college regiment will in the future be determined by three factors, namely, the rating of each company at the regular annual government inspection, the rating of the companies as they shall drill in the prize saber contest for junior officers, and the total score of each company in the indoor gallery practice. The first factor will be credited with 100 points, and the last two with 50 each, making a total of 200 points. In practice this scheme will work out so that by multiplying the first score by 50 and the second and third by 25, and dividing by 100, a per cent. rating may be obtained for each company.

IN CONTRAST.

This is a radical change, as in the past the color company has been selected with reference to ability in athletics and the placing of men in individual and prize saber drills, as well as with consideration for its military excellence. Inter-company basket ball and the inter-company track meet will not count toward the colors, as they have in previous years. The fact that government inspection does not come until after the two year men have left, throws two of the six companies out of the running, as these are largely composed of two year men. It has also been decided that the officers of the regiment will hold a hop on April 15, that is to be a formal affair at which civilian dress will be worn. Thompson Hall will probably be chosen as the place for the hop and a committee has been appointed to take charge of the affair.

1st Freshie — Gotta coupl'a thumb-tacks?
2nd Ditto—What for?
1st Freshie—I'm going out in the wind and I want something to keep my hat on.

THE COMPANY WITH THE PYRAMID

45 CONSECUTIVE YEARS OF PYRAMIDAL PROGRESS

NEW HAMPSHIRE FIRE INSURANCE CO.

4,063,140.67	1,252,267.06
3,376,828.19	1,127,038.15
2,800,404.33	1,012,978.14
2,381,499.91	908,081.54
2,016,017.48	810,064.23
1,703,270.70	726,350.62
1,429,809.34	654,804.81
1,197,887.20	593,761.60
9,280,528.69	1,703,433.67
6,350,078.09	1,725,713.78

TOTAL LIABILITIES \$3,149,365.31
POLICY HOLDERS' SURPLUS \$3,200,713.78

INTERPRETATION OF RESULTS OF RECENT WATER ANALYSIS

Biological Chemical and Sanitary Significance of Constituents Found in Water.

Is the water in any given case safe for drinking? To answer this question we must consult the chemist, the biologist and the sanitary engineer. A suitable investigation as to the purity of any water must be the result of co-operation between the chemist, the bacteriologist and the individual who makes the sanitary survey of the surroundings of the source of water.

A certain water which has been pronounced by the bacteriologist as harmless has been condemned by the chemist because of what it might unexpectedly become at some future time; yet, the bacteriologist has oftentimes shown the presence of pollution when no end of chemical data could indicate it.

DEEP WELLS.

In the case of the deep well waters, a complete geological knowledge is essential to a correct interpretation. The presence of shaly or slate rock will permit the passage into underground water of surface drainage with less purification than will a granite or sandstone. A clayey soil is a less efficient filter than a sandy loam and hence the pollution will travel farther.

As far as chemical data is concerned probably the greatest interest is centered in the content of nitrogen compounds and of chlorine.

Ammonium compounds are usually the results of putrefactive fermentation of nitrogenous organic matter. They may also be the product of the reduction of nitrites and nitrates in the presence of excessive organic matter. In either case too large amounts suggest contamination. However, the presence of excessive amounts of ammonia in deep waters must be expected, since the water even though originally contaminated has undergone filtration and oxidation and its organic matter converted into harmless matter. Such waters usually show only traces of the so called "albuminoid ammonia."

ALBUMINOID AMMONIA.

A large amount of "albuminoid ammonia" points to an excess of nitrogenous organic matter. The conclusions to be drawn depend upon the origin of the organic material. If animal, the water may undoubtedly be considered as unsafe, excessive amounts of vegetable matter is also objectionable. The chlorine and nitrate content help solve this problem, for with high chlorine content we may suspect that the high "Albuminoid ammonia" is due to animal origin. In such a case the nitrates will either be entirely absent or very high according as the contaminating matter has entered the water directly or has passed through the soil. A large amount of vegetable matter, as a rule, shows its presence by the color imparted to the water.

Nitrates are due to either an incomplete nitrification of ammonia or to the reduction of already formed nitrates

HAVE 1916 CROPS ON FERTILE SOIL

Continued from Page 1

2—For corn, use 10 to 15 tons of stable manure and 300 to 400 lbs. of a "3-10" brand of fertilizer or of acid phosphate alone.

3—For potatoes, use 8 to 10 tons of stable manure well harrowed in and 600 to 800 lbs. of a "4-10" brand of fertilizer.

4—For spring seeding with grain to grass, use 400 to 500 lbs. of a "5-30" brand of fertilizer.

5—For orchards, use tillage or cover crops instead of fertilizers.

DISCUSS CELIA THAXTER'S WORK AT BOOK AND SCROLL MEETING.

The regular meeting of the "Book and Scroll" was held at the home of Dr. and Mrs. Richards, Tuesday evening, Feb. 29. The program was in charge of Helen Hallisey and Abby Turcotte, who discussed the works of Celia Thaxter. The discussion concerning membership qualifications for the coming year was postponed until the next meeting as Dr. and Mrs. Richards were unable to be present.

under the influence of micro-organisms, etc. This is a transition product and the presence of nitrites indicates that the water is unable to dispose of the organic contamination. Usually the fermentative changes are still in existence. The presence of measurable quantities of nitrites in water is sufficient ground for at least a careful study of the situation.

Nitrates are the final point in the oxidation of nitrogenous organic matter. Most waters contain appreciable amounts unless some reducing action, as that caused by sewage pollution, is at work. Any great changes, either by increase or decrease, from the proportions of nitrates which are normal for a given reason should be another cause for investigation.

PRESENCE OF CHLORINE.

The portion of chlorine in uncontaminated waters is fairly constant, while in waters subjected to sewage pollution, etc., there is a continual variation in the amount. The normal chlorine must be known for each community. The sources of the excess of chlorine over the normal are usually the sink drain, the house drain or the stable drain. It is true that sea or salt deposits often render it difficult to express an opinion. All things being equal such a source should produce a fairly constant effect.

The degree of hardness has but little bearing as to the sanitary value of water. It is important as it gives an insight into the soap destroying power which hard waters possess.

If an individual knows the nature and general average of the well, the results of the bacteriological examination and has a fairly clear understanding of the relationship of the chemical data, the publication of the results of the examination of water supplies will have a real meaning.

ANALYSIS OF FOUR SOURCES SUPPLYING WATER TO DURHAM

The following are the Durham Water analysis of Feb. 3, 1916, made by Student Welfare Committee:

Results expressed in parts per 100,000.

Source	College	Hoitt	Pettee	Onderdonek
Odor	None	none	none	none
Color	0.03	0.07	0.05	0.00
Turbidity	None	none	none	none
Sediment	None	sl. fine	v.s.flon.	none
Free Amonia	0.0020	0.0014	0.0006	0.0006
Albuminoid Ammonia	0.0020	0.0014	0.0010	0.0024
Nitrates	0.0750	0.0300	0.0400	0.0500
Nitrites	0.0000	0.0000	0.0000	0.0000
Chlorine	2.40	0.85	1.15	2.35
Hardness	5.7	5.6	6.1	9.9
Iron	0.001	0.001	0.001	0.030
Colon Bacilli	1c.c. negative	negative	negative	negative
	10c.c. negative	negative	negative	positive
Remarks:		nitrates	good	good
		are greater		
		than pre-		
		viously		
		noted.		
				Bacilli posi-
				tive on 10c.c
				test.
				nitrates are
				high.