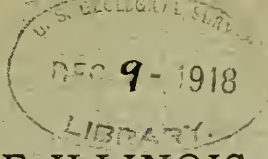


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REPORT OF THE WAR COMMITTEE

of the

UNIVERSITY OF ILLINOIS

For 1917-18



University of Illinois, War committee

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
URBANA

[Ed. 5M]

Sub. sec.

HONORARY CHAIRMEN

The Governor of the State—HON. FRANK O. LOWDEN

The President of the University—DR. E. J. JAMES

The Chairman of the State Council of Defense—HON. SAMUEL INSULL

GENERAL COMMITTEE

Chairman, Professor David Kinley, Vice President

Dean Eugene Davenport

Professor S. A. Forbes

Professor F. H. Newell

Professor S. P. Sherman

Professor C. A. Ellis

Professor C. M. Thompson

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SUMMARY OF THE REPORT OF THE WAR COMMITTEE
OF THE UNIVERSITY OF ILLINOIS*
1917-1918

July 13, 1918

President E. J. JAMES

Dear Mr. President:

I beg to submit herewith the report of the activities of the War Committee for the University year just closed.

DAVID KINLEY, *Chairman.*

The appointment of the War Committee was authorized by action of the Board of Trustees December 11, 1917. In accordance with this authority, the President of the University appointed a committee of seven, as follows: Dean Eugene Davenport, Professors S. A. Forbes, F. H. Newell, S. P. Sherman, C. A. Ellis, C. M. Thompson and the Vice President, Professor David Kinley, *Chairman.*

This Committee requested the Governor of the State, Hon. Frank O. Lowden, the President of the University, Dr. Edmund J. James, and the Chairman of the Illinois State Council of Defense, Hon. Samuel Insull, to permit the use of their names as honorary chairmen. They assented to this request.

The following divisional committees were created:

1, Publication of leaflets and pamphlets; 2, Publicity; 3, Talks and lectures at the University; 4, Lectures through the state; 5, Collection of funds; 6, The University program for war purposes; 7, United States Savings Certificates and Loans; 8, Students' cooperation; 9, The University Service Flag; 10, University war service records; 11, War employment for people connected with the University; 12, Military organization and exhibition; 13, Conservation and economy; 14, Legal advice to drafted men; 15, On the Literature of the War; 16, Women's War Relief and Red Cross; 17, American University Union.

PUBLICATION OF WAR LEAFLETS

The following bulletins have thus far been published under direction of the war committee; most of them in editions of 50,000:

The War Committee of the University of Illinois.

Practical Suggestions for Food Conservation, by Prof. Isabel Bevier.

Municipal War Work, by Dr. R. E. Cushman.

Wheat Saving, by Dr. Ruth Wheeler.

The War Garden, by Prof. J. W. Lloyd.

A Program in Food Production, by Dean Eugene Davenport.

War Legislation, by Dr. R. E. Cushman.

War Activities and Moral Leadership, by President Edmund J. James.

*The printed report is a summary of the report submitted to the President.

Milk, by Dr. Ruth Wheeler.

The German War Code, by Prof. J. W. Garner.

Sugar in War Time, by Miss V. J. Anderson.

The Great Condition, by Prof. David Kinley.

College Men and the War, by President Edmund J. James.

(The Aims and Claims of Germany, by Prof. David Kinley, was published by the College of Agriculture and reprinted by the State Council of Defense.)

COMMITTEE ON PUBLICITY

Beginning April 24, news bulletins were sent out every Saturday to a selected list of from four hundred to five hundred newspapers in Illinois and adjoining states, and some special articles to newspapers in the larger cities.

A concise statement of the wartime activities of the University was printed, of a size to be enclosed without folding in letters. Over twenty thousand of these were sent out.

LECTURES AT THE UNIVERSITY

War Talks.—Various sub-committees were appointed for the purpose of ascertaining what war talks were desired by the student organizations and of submitting programs for such talks. The schedule was brought to a conclusion May 9, when a total of 182 had been delivered.

War Book Discussion Club.—A War Book Discussion Club, organized partly for the purpose of preparing more thoroughly for giving war lectures and talks, met every third week. The books discussed were provided gratis by the American Association for International Conciliation.

The Northfield Movement.—Closely allied with the war talks were the Northfield Discussion Groups, for giving special consideration to political problems from the Christian point of view.

Fifty-three discussion groups were organized. The average attendance was twelve.

University Lectures by Faculty Members.—Two series of lectures by faculty members were given, one consisting of four lectures on "War on Waste", the other, of ten lectures, on "Food and the War".

Other lectures were given as follows:

| | | |
|----------|--|-----------------------------------|
| Oct. 10. | Organization of the Army..... | Major E. W. McCaskey |
| Oct. 17. | Aviation..... | Major T. J. Hanley, Chanute Field |
| Oct. 24. | Life in the Trenches..... | Lieut. H. R. Hingston |
| Nov. 7. | Aviation in War..... | Lieut. Paul Montariol |
| Nov. 14. | Explosives in War..... | E. A. Holbrook |
| Nov. 21. | Camouflage..... | N. A. Wells |
| Dec. 5. | The Italian Battle Front (Moving Pictures)..... | Major E. W. McCaskey |
| Dec. 12. | Army Signal Work..... | Lieut. Col. L. D. Wildman |
| Jan. 9. | The Government's Building Program as Applied to Cantonments, National Guard Camps and Aviation Fields..... | Major W. A. Starrett |
| Jan. 15. | Our Natural Resources and National Defenses..... | F. H. Newell |
| Jan. 16. | War Powers and Military Law..... | Major Joseph Wheelless |

| | | |
|----------|---|-----------------------------|
| Feb. 6. | "Many a Mickle Makes a Muckle"..... | A. W. Jamison |
| | (This lecture was of special interest as preliminary to the thrift campaign.) | |
| Feb. 12. | Geography of the War Zone..... | J. L. Rich |
| Feb. 19. | War Prices and Profiteering..... | Simon Litman |
| Feb. 20. | What the War News Means..... | Mr. S. J. Duncan-Clark |
| Mar. 5. | The American Farmer and the Allied Menu..... | Eugene Davenport |
| Feb. 25. | The World's Food..... | H. B. Lewis |
| Mar. 6. | Transportation Problems..... | J. M. Snodgrass |
| Mar. 13. | Milk Production..... | Eugene Davenport |
| Mar. 19. | Food Administration and Conservation..... | Isabel Bevier |
| Apr. 3. | War Economies in Food..... | Viola J. Anderson |
| Apr. 9. | The World's Bread Supply..... | C. G. Hopkins |
| Apr. 16. | Wise Selection of Food for the Individual..... | Ruth Wheeler |
| Apr. 24. | Rations in This and Other Lands..... | Lucile Wheeler |
| Apr. 30. | The Meat Question..... | H. W. Mumford |
| Feb. 15. | Historical Features of the War..... | L. M. Larson |
| Feb. 26. | Aims and Hopes of the German Government..... | Ernest Bernbaum |
| Mar. 1. | Newspapers in War Service..... | H. F. Harrington |
| Mar. 2. | Psychical and Social Aspects of the War..... | C. A. Ruckmich, E. C. Hayes |
| Mar. 4. | The Coal Problem..... | S. W. Parr |
| Mar. 8. | Arming Our Forces..... | Capt. H. D. Oberdorfer |
| Mar. 12. | The Alsace-Lorraine Question..... | Kenneth McKenzie |
| Mar. 20. | The Geography of the Front..... | J. L. Rich |
| Mar. 26. | The World's Debt to England..... | L. M. Larson |
| Mar. 27. | War Words from Washington..... | Eugene Davenport |

Lectures by Visitors.—Lectures by visitors were: "Interpreting the War News", by Mr. S. J. Duncan-Clark, February 20; "Italy's Part in the War", by Professor Charles Upton Clark, February 28; "On Some War Experiences, by Lieutenant Hector MacQuarrie of the British army; and the fourth, "Children of the Frontier", by Mrs. Joseph Lindon Smith, May 18. Mrs. Smith asked that two children be adopted by this community. As a matter of fact nineteen adoptions were made; fourteen by members of the University community, four by groups of members of the University Club, and one from the proceeds of the Faculty Baseball Game. Each adoption represents a subscription of \$72, the nineteen adoptions making a total of \$1,368.

Vassar Plattsburg Scholarships.—Another activity of the committee was the war-charity entertainment, "How France Cares for the Wounded Soldiers", of the National Surgical Dressings Committee, given on April 25. The net proceeds were \$252.98, one half of which (\$126.49) was placed at the disposal of the War Committee, and was used to give a scholarship to one Illinois graduate to the Vassar Plattsburg. Two more \$95 scholarships to the Vassar Plattsburg were donated through the Committee, one by the Association of Collegiate Alumnae, the other by the Student Woman's War Relief Committee.

Masques and Pageants.—Several masques and pageants were written and produced by William Chauncy Langdon. The first was "The Sword of America", a masque representing the entrance of America into the war, given Thanksgiving night. The "Titans of Freedom", which was presented at the Auditorium on Memorial Day, depicted the meeting of Washington and Lincoln to compare notes about the present war.

Lincoln's birthday was celebrated by a convocation at which the principal address was made by Professor Fernand Baldensperger, captain in the French army.

COMMITTEE ON EXTENSION LECTURES IN THE STATE

Much of the work of this committee was carried on in connection with the regular University work of the members of the committee. Mr. R. E. Hieronymous, Community Adviser in the State, adapted his work to war conditions. The program for the Third Annual Better Community Conference, held here April 4-7, emphasized war subjects.

Lectures at Camp Grant.—The following lectures were given at Camp Grant, each lecturer staying two weeks and giving each of his lectures ten times:

Dr. C. M. Thompson, "The Geographical Background of the War", "American Democracy"; Dr. J. E. Miller, "The British Empire and What It Stands For", "How the War Came About and How it Developed"; Prof. J. W. Garner, "Germany and Her Ambitions", "The French Republic and What It Stands For".

Dr. Carl Rahn gave a series of ten lectures before the Intelligence Section of the 344th Infantry at Camp Grant.

Entertainment.—From the beginning of February, the committee worked in cooperation with Mr. K. P. Gordon, General Y. M. C. A. Secretary at Chanute Field, in supplying weekly entertainment for the boys in training there. For seventeen weeks, arrangements were made for at least one musical or dramatic entertainment each week.

Sub-Committee on Farmers' Institutes.—The work in Home Economics under the emergency food bill was conducted through the extension departments of the agricultural colleges. Practically all of the extension work of the Household Science Department was adapted to war needs.

Four conferences, of a week's duration each, were held for training extension workers. At the High School Conference the Hoover Lessons and Graphic Exhibits were given to the high school teachers of Home Economics as a basis of lessons on conservation to be presented in their schools and neighborhoods.

During the year fifty-three shows bearing on food conservation were held in different parts of the state. In six centers, leaders for canning kitchens were trained by members of the University staff.

Following is a summary of the activities of this department:

| | |
|--------------------------------------|--------|
| Training classes for volunteers..... | 918 |
| Demonstrations for study clubs..... | 903 |
| Public lectures..... | 1,136 |
| Visits to homes..... | 2,020 |
| Bulletins distributed..... | 64,421 |
| Press articles written..... | 825 |

Public Schools and Other Educational Bodies.—Professor H. A. Hollister, High School Visitor, issued a bulletin on "The War-Time Call of Our Schools", which was sent to about 1,000 newspapers and to about 400 high school principals. He also conducted a campaign of patriotic education in the schools of six counties, sending literature and providing addresses.

COMMITTEE ON FUNDS COLLECTION

Beginning January 1, this committee gave authority to all individuals or organizations desiring to canvass in the University for funds to be used for purposes connected with the war.

Woman's War Relief Committee.—Of student organizations applying for such authority, the most active and successful was the Woman's War Relief Committee. Some items of its work follow:

| | |
|--|------------|
| Donations made during the year: | |
| To Y. M. C. A. War Fund..... | \$600.00 |
| Armenian Relief..... | 60.00 |
| Second Red Cross War Fund..... | 600.00 |
| Woman's League Auxiliary to Red Cross..... | 397.00 |
| Illini Chocolate and Tobacco Fund..... | 86.73 |
| Smileage Books..... | 10.00 |
| Fatherless Children of France..... | 182.50 |
| Red Cross Nurse at Vassar School..... | 95.00 |
| | \$2,031.23 |

| | |
|--|----------|
| Principal sources of revenue: | |
| Voluntary tax of women students at 3 cents per week..... | \$432.03 |
| Woman's Mixer..... | 88.00 |
| Card Party..... | 138.65 |
| Bakery Sale..... | 158.95 |
| Peanut Sale at Football Game..... | 394.10 |
| Moving Pictures..... | 18.77 |
| Christmas Box Fund..... | 47.80 |
| Popcorn Balls at Carnival..... | 31.23 |
| Food Sales at Dances..... | 141.00 |
| Mardi Gras..... | 988.55 |

Other Organizations.—April 24, a Food Show was given in the Household Science building by members of Omicron Nu. The sum of \$134.22 netted, was donated to the Woman's League Auxiliary to the Red Cross.

The sum of \$118.43 which was cleared by the committee in control of the Military Ball, on February 22, was applied to the Second Red Cross War Fund.

The Illinois Chocolate and Tobacco Fund.—Illinois Chocolate and Tobacco Fund of the University of Illinois, for soldiers, was originated by the Illini and transferred to the War Committee. By March when the Government forbade further transmission of packages, the results of the work were as follows:

| | |
|---|----------------------|
| Receipts..... | \$321.94 |
| Expenditures (Cigarettes, Tobacco, etc.)..... | 58.37 |
| On June 6 the balance of \$263.57 was disposed of as follows: | |
| To Second Red Cross War Fund..... | \$182.35 \$263.57 |
| Woman's War Relief Committee..... | 78.27 |
| Expenses of Red Cross Campaign..... | 2.00 |
| | \$262.62 \$262.62 |
| On hand..... | \$.95 |

The Sale of Smileage Books.—Since the sale of these books came at examination time, only a limited canvass was made among the faculty; but books were placed on sale in the various University libraries. The sum of \$238.00 was realized.

The Second Red Cross War Fund Collection.—The canvass was begun May 21 and practically completed on the 24th. The quota assigned the University was \$4,000; whereas the total amount subscribed by faculty and students, including the School of Military Aeronautics, was \$10,581.23.

COMMITTEE ON UNIVERSITY PROGRAM

The Committee on University Program arranged the room schedule for all classes, including those of the School of Military Aeronautics, for the second semester, and introduced several new courses, among them Military Science (Military 10), "Food and the War" (Military 30), Red Cross course (Military 20), and the History of the War (Hist. 41).

Several war courses were introduced into the summer session. These were:—in economics, War Finance from the Revolution to the Present, The Study of International Trade, and Industrial Resources of the Nations at War; in history, a seminar course on war problems; in sociology, a course on emergency relief; in psychology, a survey of psychological investigations made with reference to military conditions; in electrical engineering, a course in radio communication.

COMMITTEE ON THE UNIVERSITY SERVICE FLAG

The University Service Flag, the University's recognition of its men in service, was dedicated February 18, in front of the University Library. The flag is twenty by thirty feet. In the center is the number representing the Illinois men in service. The figures are white on a blue ground; they snap on and can thus be changed from time to time as the number of men represented increases. At the time of the dedication the number on the flag was 2,680. The number now, August 1, is 3,894.

COMMITTEE ON WAR SERVICE RECORDS

The following statement summarizes the participation of the University students, graduates, and faculty, in the military and naval service to June 5:

| | | |
|---|-------|-------|
| Army..... | 3,599 | 90.1% |
| Navy..... | 350 | 8.8% |
| Marines..... | 43 | 1.1% |
| U. of I. Men reported Abroad..... | 632 | 15.8% |
| U. of I. Men in Allied Armies..... | 25 | |
| Volunteers..... | 3,568 | 89.3% |
| Drafted..... | 424 | 10.7% |
| Commissioned Officers: | | |
| Generals..... | 2 | |
| Lieutenant Colonels..... | 4 | |
| Colonels..... | 4 | |
| Majors..... | 43 | |
| Captains..... | 191 | |
| 1st Lieutenants..... | 440 | |
| 2nd Lieutenants..... | 534 | |
| Chaplains..... | 4 | |
| Naval Officers..... | 36 | |
| Total..... | 1,258 | 31.5% |
| Non-com. Officers and Enlisted Men..... | 2,734 | 68.5% |

CLASSIFICATION

| | | | | |
|---------|--------------------------|-----|--------------------------|-------|
| Army | Ambulance Corps..... | 117 | Machine Gun Corps..... | 39 |
| | Aviation Corps..... | 522 | Medical Corps..... | 173 |
| | Cavalry..... | 18 | Musicians..... | 15 |
| | Coast Artillery..... | 160 | Officers' Schools..... | 207 |
| | Engineering Corps..... | 296 | Ordnance Corps..... | 175 |
| | Field Artillery..... | 364 | Quartermaster Corps..... | 173 |
| | Gas Defense Service..... | 24 | Signal Corps..... | 107 |
| | Infantry..... | 632 | Branch Unknown..... | 477 |
| | Total..... | | | 3,599 |
| Navy | Radio Corps..... | 48 | | |
| | Other Branches..... | 270 | | |
| | Officers' Schools..... | 32 | | |
| | Total..... | | | 350 |
| Marines | | 43 | | 43 |
| | GRAND TOTAL..... | | | 3,992 |

COMMITTEE ON UNIVERSITY WAR EMPLOYMENT

The Committee on War Employment was appointed December 18. Assistance was given to 485 individuals in connection with war work, and 259 men and women were recommended for positions. Assistance in securing staff personnel was given the following governmental agencies, industrial concerns and war committees:

U. S. Ambulance Service, U. S. Army Engineers, U. S. Coast Artillery, U. S. Naval Engineering and Public Works Dept., U. S. Naval Flying Corps, U. S. Marine Corps, U. S. Signal Corps, U. S. Public Service Reserve, U. S. Civil Service Commission, Ordnance Department, Mechanical Research and Investigation Divisions of the Bureau of Mines and the Bureau of Standards, Division of the Medical Corps, Engineering Branch of the Aviation Section, Army Y. M. C. A., Division of Immigrant Education, Immigration League, Newport News Shipbuilding and Dry Dock Co., Hooker Electrochemical Company, Art Metal Construction Company, Rippley Boat Company, Midvale Steel and Ordnance Company, Union Carbide Company, U. S. Motor Corporation.

COMMITTEE ON UNITED STATES SAVINGS CERTIFICATES AND LOANS

War Savings Stamps depots, where stamps could be purchased at any time, were established on the campus and in the University business district at several places. In the ten days' campaign (February 13-22) the following amount was pledged to canvassers:

| | |
|---------------|-----------------|
| Faculty..... | \$16,099.75 |
| Students..... | <u>7,226.75</u> |
| Total..... | \$23,326.50 |

About 50 per cent of this amount was paid in cash; the remainder was pledged to be paid during 1918. In addition to the amount pledged to canvassers, sales to the amount of about \$1,500 were made at the various depots during the campaign.

After the campaign, interest in the stamps and certificates was kept alive. During the first fifteen days of March the total sales amounted to \$2,200, or an average of \$140 a day.

Third Liberty Loan Campaign.—The Campaign was inaugurated by the University convocation commemorating the entrance of this country into the war. The total subscriptions were more than double the quota set for the University. The following items are of interest:

| | |
|--|-----------|
| Faculty (Urbana-Champaign)..... | \$117,500 |
| Faculty members on leave of absence..... | 1,900 |
| Students in Urbana-Champaign..... | 24,000 |
| Chicago Departments..... | 65,150 |
| Instructional Corps and Officers, S. M. A..... | 6,100 |
| Cadets..... | 4,700 |

Enough other subscriptions were made to bring the total for the University above \$220,000.

COMMITTEE ON CONSERVATION AND ECONOMY

Four sub-committees were appointed, each of which had charge of one phase of conservation, as follows:

Finances of Organizations.—The Committee on Finances of Organizations investigated the system of financial organization in fraternities with a view to economy from better business methods. A conference of the financial officers of all fraternal organizations was called and the outlook for improvement in financial organization was discussed.

Coal.—Professor Arthur C. Willard, the chairman of this committee, prepared a poster explaining the large waste of coal in over-heated houses. Several thousand of these posters were printed and distributed.

A canvass was made of student organizations to obtain statistics of coal consumption. The figures obtained are as follows, results being based on 34 organizations:

Average tons coal per person for season 2.86. Maximum 4.70; minimum 1.34.

Average cost of coal per person for season \$14.70. Maximum \$26.20; minimum \$7.50.

Average cost of electricity per person per month \$0.661. Maximum \$1.18; minimum \$0.39.

Food.—Ration cards like the following were distributed by the Food Committee:

YOUR RATION

Can you make this your honor ration until the Food Administration asks you to change it?

Meat..... $1\frac{1}{4}$ pounds per week
Fat.....1 pound per week
Sugar..... $\frac{3}{4}$ pound per week
Wheat.....as little as possible

Will you try it and so do as well as England and France?

DON'T BE A FOOD SLACKER

Check Yourself

For help to do it see other side.

These cards were placed on the tables of fraternities, sororities, unit houses and boarding clubs.

On May 1, student leaders inaugurated a campaign against the use of confections. Several hundred women students agreed to eat no candy containing sugar until the food crisis is past.

Entertainments.—The sub-committee on entertainments studied the expenditures for social activities in fraternities, sororities and other house units. A report was made showing the saving of about twenty-five organizations for the school year 1917-1918 over the previous year. The aggregate was about \$10,000.

COMMITTEE ON LEGAL ADVICE TO DRAFTED MEN

The heaviest work of the committee came the latter part of December and the beginning of January. The greater part of the work of the first few weeks was giving advice to members of the faculty, since their cases were usually more complicated than those of the students.

COMMITTEE ON THE AMERICAN UNIVERSITY UNION

In March the American University Union in Europe asked the University of Illinois to contribute \$1,000 toward the support of the Paris Branch Union, the purpose of which is to "meet the needs of American university and college men and their friends who are in Europe for military or other service in the cause of the Allies". The Trustees requested the President to ask the alumni to contribute this sum. The Chairman of the War Committee undertook the work of interesting the alumni in raising the money. At his suggestion the Washington Alumni took charge. On Alumni Day at Commencement time the visiting alumni subscribed \$1,056.50. In addition, Mr. S. T. Henry reported on June 20, subscriptions by the Washington Alumni amounting to \$300 and a pledge of \$150 from the Alumni of New York, making a total of \$450, which if added to the previous amount makes a grand total of \$1,506.50.

**THIS RATION ALLOWS YOU
PER DAY**

Meat—4 ounces (as purchased with a reasonable amount of bone) five times a week.

Fat—2 2-7 ounces or 4 level table-spoons—total for fried foods, pastries salads, butter.

Sugar—1 5-7 ounces or 4 level table-spoons—total for beverages, cereal, desserts, candy, ices, and fruit.

In place of wheat, have you eaten oatmeal, cornmeal, rice, potatoes? These substitutes, also milk, eggs, cheese, nuts, fish, fruit, and vegetables, are not rationed.

COMMITTEE ON THE LITERATURE OF THE WAR

In June, the library sent 535 books to the Chanute Flying Field Y. M. C. A. At present the committee is preparing 500 volumes for shipment on transports carrying United States troops to France.

Mr. George A. Deveneau, of the Agricultural Library, has as "Library Publicity Director" of the U. S. Food Administration for this state been active in getting public libraries all over the state to supply themselves with, and to advertise and display, books and pamphlets on food questions.

THE WOMAN'S LEAGUE AUXILIARY TO THE RED CROSS

The Woman's League Auxiliary began its work in October 1917, with no official title, the work being done for the Champaign chapter of the Red Cross. A work room was opened for three hours each day. The first semester two hundred signed up to put in a definite number of hours each week. Most of the work done was on refugee garments. There was one surgical dressings class. The following articles were made: 3,000 gauze and muslin dressings, 500 refugee garments, 4 dozen knitted articles, 100 scrap books for convalescent soldiers.

In the second semester 350 girls enrolled for regular work and an average of 25 unenrolled girls came to work each week. Classes in surgical dressings were held every week day and classes in sewing were held four times a week. The following work was done: 12,000 dressings, 12 dozen dressings for Dr. Beard, 28 complete infant layettes, refugee garments.

OTHER UNIVERSITY WAR ACTIVITIES

(Not under Direction of War Committee)

The Y. M. C. A. Campaign.—November 11-19, 1917, a campaign was conducted for funds for the Y. M. C. A. War Work. The total amount subscribed was \$28,906.88.

The Second Liberty Loan Campaign.—This occurred before the organization of the War Committee. The best available information shows that about \$50,000 was subscribed by University people living in Urbana. No separate account was kept of the subscriptions of University people living in Champaign.

Activities of the Engineering Experiment Station:—To assist consumers in their efforts to conserve fuel and operators to produce greater quantities the Engineering Experiment Station issued a series of publications:

Bulletin 97—Effects of Storage upon the Properties of Coal.

Bulletin 100—Percentage of Extraction of Bituminous Coal with Special Reference to Illinois Conditions.

Bulletin 102—A Study of the Heat Transmission of Building Materials.

Circular 4—The Economical Purchase and Use of Coal for Heating Homes.

Circular 5—The Utilization of Pyrite Occurring in Illinois Coal.

Circular 6—The Storage of Bituminous Coal.

Circular 7—Fuel Economy in the Operation of Hand Fired Power Plants.

Circular 8—The Economical Use of Coal in Railway Locomotives.

Other publications of the station issued during the year are proving helpful in connection with war production and conservation problems. One such is Bulletin 108—Analysis of Statically Indeterminate Structures by the Slope Deflection Method. The results developed are being used by the Emergency Fleet Corporation in the design of concrete ships.

Tests to determine the behavior of various grades of steel under very rapid loadings were made for the Bureau of Construction and Repair of the U. S. Navy. A new type of testing machine was devised and built for these tests.

The station has been helpful in the solution of materials testing problems which have arisen at Chanute Field and in the design of testing apparatus for use there.

Research Problems:—Details cannot be given concerning the research war problems conducted by the University. It is proper, however, to give a summarized statement:

On agriculture and food, nine problems have been under investigation; in chemistry, nine inquiries have been undertaken; in the various departments of engineering, sixteen investigations have been conducted in problems relating to the war, all but three or four at the direct request of some of the government departments; in physics, four important inquiries have been conducted; in psychology, two war problems have been investigated.

In addition to the above, other inquiries have been undertaken independently, having relation to food in the war, the preparation of food, wheat substitutes in cooking, coal conservation, proper management of domestic heating apparatus, and many others.

The department of Zoology has participated in the campaign to extend the use of fish as food, and has also been in consultation with the government departments on many other topics.

Various members of the faculty have been granted leaves of absence for various periods to assist in the work of the Committee on Public Information, the Historical Research Board, and other work related to the war.

School of Military Aeronautics.—A United States Army School of Military Aeronautics is conducted at the University.

The University authorities initiated the proceedings which led to the establishment of a flying field at Rantoul.

Illinois Food Production Program.—The absence of an intelligently planned program of food production influenced the authorities of the College of Agriculture to work out a plan for Illinois. This plan was submitted to the Corn Growers' and Stock Men's Convention, held in February, and also to the State Council of Defense War Conference, and was recommended by both. This plan urged on farmers of Illinois:

- 1, An increased production of wheat; 2, an increase in pork production; 3, a diminution of high finished cattle and an increase of short fed cattle; 4, the saving of lambs; 5, caution in the reduction of dairy herds; 6, as large a corn crop as possible; 7, suggestions for the promotion of poultry products; 8, suggestions for relieving the labor shortage; 9, advice concerning necessary farm machinery, its increase and use.

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