

THE KANSAS

Agricultural Student



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" But Can You Milk a Cow? "



OCTOBER • 1940

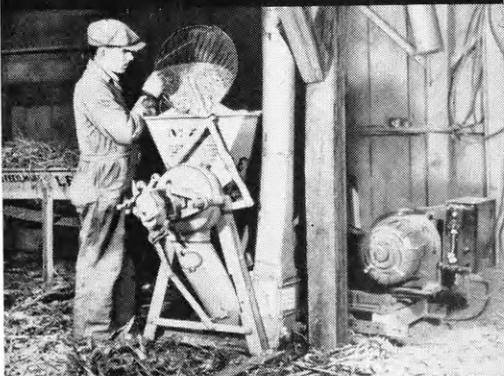
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Assassin Bug Correctly Named, College Veterinarian Discovers

●Dr. C. H. Kitselman isolates virus of sleeping sickness in nature in a blood-sucking bug that is found in many pastures in this section of the country.

By GLENN BUSSET

COINCIDENT with the recent outbreak of a large number of cases of sleeping sickness in horses comes the announcement that the common assassin bug, *Triatoma sanguisuga* (LeConte) has been isolated as a carrier of the encephalomyelitis virus. Due to the fact that the cases ended abruptly with the first killing frost, it has long been suspected that insects were the carriers of the virus. It was known that the mosquito species *Aedes* could transmit the disease from guinea pig to guinea pig, but as little correlation could be established between outbreaks of the disease and prevalence of hordes of mosquitoes, other insects were suspected.

Under the direction of Dr. C. H. Kitselman of the Division of Veterinary Medicine, common assassin bugs, often called "kissing bugs" or "Mexican bed bugs" were collected from a pasture where horses had become infected with the disease. These bugs are voracious blood suckers, feeding at night and hiding in the daytime. These collections were isolated into six groups and the bugs completely ground, and a bacteria free filtrate produced from their pulverized bodies. This filtrate was injected into healthy guinea pigs, one-half of which came down with the disease. When a culture was made from the diseased guinea pig's brains and injected into healthy guinea pigs, the disease-producing power of the virus was considerably increased, the disease attacking the second guinea pigs much sooner.

Dr. Kitselman has emphasized that the virus he has isolated is definitely the Western type of the disease. Guinea pigs that had been immunized against the Eastern type were inoculated with the virus. The response was total infection. Guinea pigs immunized against the Western type were not affected. To date the more virulent Eastern type has not appeared west of the Appalachian mountains.

"It is the most encouraging lead as yet of the virus disease under natural

conditions," Dr. Kitselman stated, "although we do not know yet if the assassin bug is the true carrier or a vector of the virus."

This discovery has definitely answered the question of why only one or two horses out of 10 or 20 under identical conditions came down with the disease. Also it has cleared up the reason why the disease dies off after the appearance of frost, when the insects are inactivated or hibernate in winter quarters.

An effective vaccine has been developed by infecting embryos in 10-day incubated hen's eggs with the virus, which grows well and multiplies rapidly in this culture. These egg embryos are ground and used to produce the vaccine, which has proved highly effective, replacing entirely the vaccine made from horse brains. The vaccination has about a year's dura-

tion, and should be repeated each season.

Following the lead that the assassin bugs live under rocks, in the soil and near field rodents, Dr. Kitselman is trying to associate the death rates among wild rodents with infection among horses. No results have yet been obtained, largely because there is no way of determining the population of our wild rodents.

The Cover Picture

Students in the Division of Agriculture at Kansas State selected the five coeds shown in the picture to be the Princesses at the 1940 Ag Barnwarmer, and Marguerite Gilek (extreme left) was subsequently chosen to be Queen of the Barnwarmer.

The cover picture was taken shortly after the girls had competed in a milking contest which helped the students decide which should be Queen. Miss Gilek won the contest by managing to get nine-tenths of a pound of milk out of her cow and into the pail. (That's about a pint of milk in five minutes.)

F. D. Farrell, President of the college, was the official judge at the contest, which drew about 1,000 spectators.

Agricultural Journalists Plan the Magazine



This picture shows the staff of The Kansas Agricultural Student in action, and was taken in the recreation room of Prof. C. W. Mullen's new home at 1823 Laramie street. The staff members are, from left to right, Bob Wagner, assistant editor; Dave Long, Poultry Husbandry; Ed Elling, Milling Industry; Boyd McCune, Agronomy; Stan Winter, business manager; Bill Winner, Agricultural Economics; Glenn Busset, editor; Bob Singleton, assistant business manager; Walt Keith, Horticulture; and Howard Hughes, Animal Husbandry.



Kansas State's Farmer Boys and Girls Swing It at the Ag Barnwarmer

●Marguerite Gilek crowned queen after winning milking contest—Ags and vets renew annual feud.

By BOB WAGNER

IT was "Barnwarmin' at its best" as 475 Ag students and their dates, attired in barnyard tuxes and calico formals, danced to the rhythm of Matt Betton and his boys in Nichols gymnasium the evening of October 19.

The Ag Barnwarmer was the climax of a busy and eventful week for the Ags as well as for their Princesses which were selected at Seminar, Thursday, October 3. Those chosen as Princesses were: Eunice Wheeler, ISU from Manhattan; Mary Shaver, Pi Beta Phi from Salina; Lois Mary Robinson, Chi Omega from La Crosse; Shirley Karns, Kappa Kappa Gamma from Coffeyville; and Marguerite Gilek, Van Zile Hall from Anthony.

After a week of hard practice and patient tutoring by some of the dairy students, the Princesses were required to demonstrate their milking ability in a cow milking contest held Monday afternoon, October 14. Marguerite Gilek who impressed the Ags by milking 0.9 of a pound of milk in five minutes emerged as winner of the first milking contest ever to be held in connection with the Ag Barnwarmer. Lois Robinson was second with 0.6 of a pound; Shirley Karns, third with 0.4; and Mary Shaver and Eunice Wheeler tied for fourth place with 0.3 of a pound each. The contest proved to be a popular stunt as students from all divisions of the college gathered to enjoy the show and to satisfy their curiosity as to the milking ability of the five college coeds. Photographers snapped numerous shots of the maiden milkers in action.

Wednesday morning was the time for all Ags to don their overalls once again to be worn for the rest of the week. A stock tank—larger than ever this year—filled with water was conveniently placed in front of the pavilion for use in case any Ag student was afflicted with a case of lax memory, and business was good this year. In addition the tank served as the center of trouble, when the usual

Ag-Vet feud grew to new intensities this year, as the Ags retaliated for the indiscriminate battering of the tank rendered by the vets. Fist fights, dunkings, free hair cuts, and rotten-egging were common-place during the battle.

Then on Saturday night came the Barnwarmer dance, the outstanding social event of the year in the division. A gay old time was highlighted by the surprise crowning of the Ag queen. Matt and his boys held the attention of the crowd with their clowning and rustic attire as the Princesses ascended the throne. Then the clowning was changed to a sudden burst of fanfare, and all attention was focused upon the lighted throne as the curtains were drawn and as Dean L. E. Call crowned Marguerite Gilek to reign as Queen of the 1940 Barnwarmer.

The gymnasium, with a ceiling of colorful sumac leaves and with the dance floor surrounded by shocks of sorghum and bales of hay, provided the "barny" atmosphere for the occasion. The seven departmental booths and the Alpha Zeta, agricultural honorary fraternity, booth which have become an almost essential element in a successful Barnwarmer were an especially attractive part of the decorations. Each showed something of the work and the value of that respective department.

The Bar-Nuthin' Saloon with its 60 gallons of cider and 85 dozen doughnuts proved a popular place as everyone indulged freely in the refreshment.

To the students of the Division of Agriculture goes the credit for making the 1940 Ag Barnwarmer the best yet, with especial credit to Stan Winter, Manager of the Barnwarmer. The ready and willing cooperation of the students played a large part in its success.

So with the 1940 Ag Barnwarmer a thing of the past, let's look ahead; and may the 1941 Barnwarmer be an even bigger and better party yet.

A Better Deal for the Judging Team

When I stumbled out of a car last year at the end of a 1,000 mile judging trip, I swore I'd never try for a judging team again. Six of us had ridden the last 500 miles in a car designed by the manufacturer to "comfortably seat five persons." We were not comfortable. We were practically sitting in each other's laps, with our feet firmly entrenched among piles of luggage.

The football and basketball teams usually travel by Pullman or bus. Judging teams are too small and too poorly financed to charter a bus; for convenience and flexibility, travel by car is best. But when two cars can't be obtained, the whole team, bag and baggage must be crammed into a car so crowded you have to get out to change your mind.

The Division of Agriculture has an average of 30 men and seven coaches attending 18 judging contests during the year. The coaches must scurry around before each contest to obtain sufficient transportation at a cost the budget will allow. Sometimes two cars must be taken; the recent trip of the livestock judging team to Wichita required three cars. We have some of the finest judges in the country on our teams, but personally, I believe if I had to ride to another contest crowded up with someone's elbow in my ear, I couldn't tell a cow from a reindeer.

After I had assembled all the information about teams, trips, etc., I looked for a logical solution. It would be much cheaper and more pleasant for the boys and coach if they could all travel together. Why not a station-wagon to haul these judging teams? For the benefit of those who don't know what a station-wagon is, it slightly resembles a sedan.

Station-wagons have a large capacity. Eight passengers is the standard load in the average station-wagon, and the passengers are able to ride in comfort. The seats are removable, easily converting to a sedan-delivery style truck. The motor is standard, requiring no more gasoline than the same make of pleasure car. A good station-wagon costs about \$1,100.00.

Besides its valuable use on judging trips, a station-wagon would be gen-

(Concluded on page 9)



● (1) The Ag Barnwarmer Committee. These are the fellows who worked hard to make this year's party the best yet. ● (2) Marguerite Gilek and her Princesses on the throne at the Barnwarmer. On the left are Eunice Wheeler and Mary Shaver; Lois Mary Robinson and Shirley Karns are on the right. ● (3) The girls and their cows in action in the milking contest. ● (4) Gordon Hoath, Stan Winter, Shirley Karns and Mary Shaver drink a toast to Marguerite Gilek (center). (The cups contained only cider.) ● (5) L. E. Call, Dean of the Division of

Agriculture, kisses the Queen's hand after placing the crown on her head. ● (6) President F. D. Farrell congratulating the winner of the milking contest, Marguerite Gilek. ● (7) A close-up of the Queen and her \$10,000 "Charmer" smile. ● (8) Lois Mary Robinson in a pre-contest practice session learns the technique of milking. ● (9) A Vet gets dunked in you-know-what. ● (10) Shirley Karns and her cow demonstrate the latest (though not officially approved) stance.

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Agricultural Student

KANSAS STATE COLLEGE
OF AGRICULTURE AND APPLIED SCIENCE
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SOME "NEW CLOTHES"

This is the first issue of The Kansas Agricultural Student in its new size and make-up, or "format", the printers call it. The change-over from the seven-inch by ten-inch size to this size, nine inches by twelve inches, was made for several reasons. The most important reason for the change in size is the fact that it has been difficult at times to print the prepared advertisements of national advertisers on the small-sized page. Another reason was to conform to the size specifications of the American Association of Agricultural Magazines.

Readers may get the impression that there is less reading matter in this size magazine—24 pages—than in the old 32-page size. Our grade school arithmetic shows us, however, that this twenty-four-page magazine contains as much type space as would a thirty-eight-page magazine of the old seven-inch by ten-inch size.

And, too, the new layout makes possible more of what the make-up editor calls "flexibility of arrangement." We aren't bound to a five-inch by five and one-half-inch picture for the cover, but can use any size or proportion from that size up to six inches by nine inches. That helps.

About the Pictures

Additional prints of any of the pictures appearing in this issue of The Kansas Agricultural Student may be obtained from the Department of Illustrations. There are also several good pictures that were not used, because of lack of space and the expense involved in having printing plates made.

Prints of all pictures taken for this issue of the magazine are on file in the office of Paul L. Dittmore, Advisory Editor of The Agricultural Student. Students are invited to make their selections for extra prints from these file pictures. All orders for pictures must be placed through Mr. Dittmore's office. The Illustrations department makes a nominal charge for the prints. The prints will be 3 1/4 by 4 1/4 inches in size unless enlargements are desired.

The photography for this issue of the magazine was done by Mr. Dittmore and by F. J. Hanna, the college photographer.

CALLING ALL FRESHMEN. . . .

Editorials come and editorials go, but there is one type of editorial that goes on forever. You guessed it; the instructive, nagging type.

You have already been told by

(Continued on page 8)

Published by the Agricultural Association of Kansas State College of Agriculture and Applied Science, Manhattan, Kansas, on or before the Twentieth Day of the months of October, December, March, and May.

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Who's Who Among the Ag Students

A directory of the officers of the various clubs, fraternities and other organizations in the Division of Agriculture.

ALPHA ZETA

Harold Fox, *Chancellor.*
Boyd McCune, *Censor.*
Eugene Watson, *Scribe.*
James Booth, *Treasurer.*
Glenn Busset, *Chronicler.*
Henry Smies, *Historian.*
Albert Praeger, *Sergeant-at-Arms.*

AGRICULTURAL ASSOCIATION

Albert Praeger, *President.*
Orville Burtis, *Vice President.*
Paul Sanford, *Secretary.*
Mack Yenzler, *Treasurer.*
Stan Winter, *Manager, Ag Barn-warmer.*
Glenn Busset, *Editor, The Kansas Agricultural Student.*

BLOCK AND BRIDLE

Eugene Watson, *President.*
George Inskeep, *Vice President.*
Stan Winter, *Secretary.*
Hobart Frederick, *Treasurer.*
Bert Gardner, *Reporter.*
Wendell Moyer, *Marshal.*

AGRICULTURAL ECONOMICS CLUB

Milton Manuel, *President.*
Kenneth Jameson, *Vice President.*
Bertil Danielson, *Recording Secretary.*
William Winter, *Corresponding Secretary.*
James Booth, *Treasurer.*

DAIRY CLUB

Francis Wempe, *President.*
Ralph Bonewitz, *Vice President.*
William Mudge, *Secretary-Treasurer.*

KLOD AND KERNEL KLUB

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Paul Smith, *Vice President.*
Paul Brown, *Secretary.*
Lloyd Jones, *Treasurer.*
Arden Reiman, *Reporter.*
Dale Hupe, *Sergeant-at-Arms.*

HORTICULTURAL CLUB

Dean Cassity, *President.*
Cecil Wenkheimer, *Vice President.*
Ray Keen, *Secretary-Treasurer.*
Edgar Johnson, *Program Chairman.*

POULTRY CLUB

David Long, *President.*
Paul Sanford, *Vice President.*
Carroll Mogge, *Secretary-Treasurer.*
Edward Buss, *Parliamentarian.*
Theodore Levin, *Sergeant-at-Arms.*

SEARS SCHOLARSHIP CLUB

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Paul Sanford, *Vice President.*
Ronald Campbell, *Secretary-Treasurer.*

ALPHA MU

William Briggs, *President.*
Eugene Woolley, *Vice President.*
Willard Meinecke, *Secretary-Treasurer.*
Donald Dubois, *Corresponding Secretary.*

COLLEGIATE 4-H CLUB

Hobart Frederick, *President.*
Keith Thompson, *Vice President.*
Wilma Evans, *Secretary.*

STUDENT COUNCIL

(Divisional Representatives)

Gene Fair.
Charles Adams.

GAMMA SIGMA DELTA

Dr. C. O. Swanson, *President.*
Dr. H. W. Brubaker, *Vice President.*
V. D. Foltz, *Secretary.*
Dr. J. A. Hodges, *Treasurer.*

ALPHA GAMMA RHO

Hobart Frederick, *President.*
Richard Evans, *Vice President.*
Gerald Van Vleet, *Secretary.*
Kenneth Jameson, *Treasurer.*

FARMHOUSE

Russell Nelson, *President.*
Arden Reiman, *Business Manager.*
Donald Johnson, *Secretary.*
Henry Smies, *Treasurer.*

"Trying Out" For the Team



From the eleven men pictured above, Prof. F. W. Bell, livestock judging coach, will select the intercollegiate livestock judging team that will represent Kansas State College at the American Royal Livestock show at Kansas City and the International Livestock and Grain Exposition at Chicago.

In the picture, from left to right, are Warren Rhodes, Kenneth Jameson, Stan Winter, Eugene Watson, Bob Niquette, Mack Yenzler, Wayne Colle, Orville Burtis, Boyd McCune, Hobart Frederick, and Merrill Abrahams.

American Agriculture Can't Win by the European War

● *"The American farmer apparently should proceed on the assumption that foreign markets for his products will not be restored within the near future, if at all."*

By DR. W. E. GRIMES
Department of Economics and Sociology

WHEN war broke out in Europe a little more than a year ago many people expected that prices of farm products would be increased as a result. Temporarily, the attitudes of these people prevailed and prices increased for a few days, but soon they settled back to levels not materially different from those prevailing during the months immediately preceding the outbreak of war. Those who expected materially higher prices for farm products have been disappointed and probably will continue to be disappointed. There is little in the outlook to indicate a materially higher level for farm prices.

During the year preceding the outbreak of the war many of the nations of Europe were stocking up on needed food materials. This increased American exports, particularly of wheat. Since the war started, the demand for American farm products has been less and, excepting for cotton, American exports of farm products have dropped to low levels. The foreign market for most farm products seems to be gone and it will be recovered slowly, if at all. So long as the war lasts, either Europe and Great Britain will be unable to buy from the United States or, if able to buy, their purchases will be kept at a minimum so that purchasing power may be used to buy war materials and equipment. When the war terminates, America probably will find it difficult to sell to the peoples of Europe because of their impoverishment by the war; furthermore, they may be reluctant to buy from this country.

Yet another important fact is the ability of other parts of the world to furnish farm products of as good quality as can be provided by the United States and at lower prices than this country has been willing to accept. Wheat is available in Canada, Argentina, and Australia. Cattle are

available from Argentina—wool and mutton from Australia, and so on. This situation will make it difficult for the United States to sell in foreign markets even if those markets are free markets after the war.

Under the stress of war and considering the partial success of the blockades, it seems probable that the American farm products that will be exported first will include dairy products and other foods that are not bulky. Such products require a minimum of shipping space at times when shipping space is at a premium and ocean freight and insurance rates are high.

● The American farmer apparently should proceed on the assumption that foreign markets for his products will not be restored within the near future, if at all. Any improvement in the demand for American farm products within the next three or four years or more probably will come from domestic sources and will be the result of the increased employment and improved purchasing power of those Americans who find greater employment as a result of the national defense program.

Under such circumstances the need for readjustment of American agriculture continues. The prospects are that reduced acreages of wheat, corn, cotton, and tobacco will be required to satisfy the available markets. Fewer hogs will be required. The demand for fruit will be less since a considerable part of the American fruit crop was exported in pre-war years. All of these things call for adjustments. It will be many years after peace comes before the adjustments needed will be approximately complete. In brief, American agriculture stands to lose by the war—not only in the long run but also in the short run. But that is characteristic of war. In war, no one wins; everyone loses.

Ag Association Head



Albert Praeger, president of the Kansas Agricultural Association, gives his ideas about Ag Seminar. Praeger is an agronomist. Claffin is his home town.

CALLING ALL FRESHMEN

(Continued from page 6)

more influential persons than we are, and much more emphatically, of your duties here. You have been told of your duty to yourself, to the college, especially to the division, of your duties to your folks at home who are sacrificing to put you through college. You know you are expected to make the grade (woe unto those who do not, for flunk slips awaiteth them), you are expected to wear your purple caps, arrive promptly on time at class, never neglect studies for a good time, pay breathless attention to what the instructor says even when you are sleepy, never walk on the grass, and stay in the stands to sing the Alma Mater after football games. We have been guilty of writing editorials of this type in the past.

But duties can become terribly tiresome; so we are presenting invitations. We take this occasion to welcome you to our college, especially to the ag division. We want you to enjoy yourselves, for to be well digested, knowledge must be taken with a good appetite.

We hope you enjoyed the Ag Barn-warmer. We believe you will like the professors in the ag division; we like some of them ourselves. We hope your four years at Kansas State will pass rapidly and eventfully, as has ours. We hope you attend ag seminar, join the departmental club you

are interested in, perhaps join some social organization, take part in intramural athletics, try for a judging team, attend church at least often enough to know the pastor's name, and make a mighty effort to become eligible for election to the various honoraries.

Last of all, we hope you will read and enjoy this edition of *The Agricultural Student*, and those to follow. If you like your picture in this edition, come around to the office and get a copy to send home to your folks. They'll really appreciate it.

We want you to read of the experiences of the other men, of the work going on in the various departments, the honor roll of the Ag division, and what the judging teams are doing. We don't intend to get the bloodhounds and G-men out to see that you read the magazine conscientiously from cover to cover. If you read it and don't like it, chuck it in the waste basket and write us an insulting letter about it. But read it.

A BETTER DEAL

(Continued from page 4)

erally useful to the Division of Agriculture. Professors must do everything but forcibly conscript enough cars to make a field trip for a class. Crops, pasture improvement, soils, horticulture, soil management and marketing are just a few of the classes that must depend on voluntary enlistment of cars to provide transportation. Often it is necessary to make two trips with the cars, or ride in an open truck.

As for conflict between various teams who wished to use the station-wagon at the same time, these would be infrequent, and could easily be ironed out. I do not base the desire to have a station-wagon for the judging teams on the more satisfactory status of the athletic or other departments, but on the merits of the actual need.

Raymond J. Doll, of the Agricultural Economics Department, is on leave of absence to work on his doctor of philosophy degree at the University of Minnesota. He will be gone for one year.

Raymond Seltzer is a new graduate student in the Agricultural Economics Department. Raymond is from Illinois.

Bread Like Mother Used to Bake

By ED ELLING

The milling industry here at Kansas State College recently purchased two new air conditioning units. These units which are used to control the temperature and humidity of the air in the research baking laboratory and in the experimental milling room, also have dust filters that purify the air as it is taken in. Both of these rooms have a unit which is capable of maintaining the moisture content of the air at any point between 40 to 90 percent relative humidity. The temperature of these rooms can likewise be kept constant at any temperature between 60 to 100 degrees Fahrenheit.

This range in temperature is made possible by a refrigeration unit consisting of a refrigeration storage tank, refrigeration coils, thermostats, humidistats and etc. This unit also has two compressors, each of which is capable, if necessary, of manufacturing five tons of ice in twenty-four hours. These compressors are arranged so that they can both be used for either of the conditioning units or they can be split up, one compressor to each unit. The gas that is used in this refrigeration unit is called Freon or if you want to be technical you can call it di-chloro di-floro methane. This gas is colorless, has an ethereal odor, a boiling point of —22 degrees Fah-

renheit and a freezing point of —247 degrees Fahrenheit.

This new equipment enables us to maintain a constant temperature and humidity regardless of the prevailing conditions out-doors, which in turn enables us to do our experimental baking and grinding of wheat and wheat products under any desired humidity and temperature.

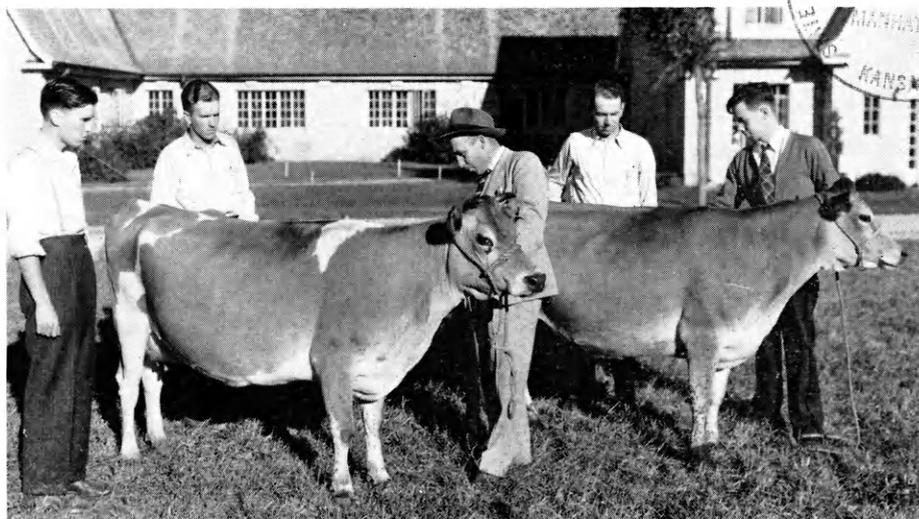
This equipment was purchased from the General Refrigeration Sales Company with funds furnished by the Bureau of Plant Industry, United States Department of Agriculture.

Prof. Rufus Cox, of the Department of Animal Husbandry, is on leave of absence to work on his doctor of philosophy degree on animal nutrition under Dr. F. B. Morrison at Cornell. Professor Cox will be away for one year.

Dr. A. D. Weber, of the Department of Animal Husbandry, recently received his doctor of philosophy degree from Purdue.

John McCoy and Henry Meenen, '40, have been appointed to the faculty in the Agricultural Economics Department here as Farm Organization assistants.

Kansas State's Dairy Cattle Judges



● Dr. A. O. Shaw and two of the college Jersey cows are shown with Kansas State's dairy cattle judging team. The team members, from left to right, are Ed Reed, Walter Robinson, Russell Nelson and Francis Wempe. The team placed eleventh at the National Dairy Cattle Congress at Waterloo, Iowa, and twelfth at the National Dairy Show at Harrisburg, Penna. At Waterloo the team was high team in the Jersey and Brown Swiss classes.

Danforth Fellowship Presents a Personal Challenge

● *A preview of the inspirational vacation on the shores of Lake Michigan in store for two Kansas State students.*

By PAUL SANFORD

WORDS or dollars and cents cannot express the inspirational, enjoyable, and educational experience that the Danforth Summer Fellowship has revealed to me.

Many of you have undoubtedly heard much of Mr. Danforth and the Ralston Purina Company; yet I am sure many of you do not realize just why and how these Danforth fellowships are awarded, and what they really consist of.

Each spring in 38 agricultural colleges and in the Ontario Agricultural College of Canada there is selected an outstanding agricultural student in the junior class to be awarded the Danforth fellowship. This covers a two weeks stay at the Purina Mills, and Purina Experimental Farm at St. Louis and Gray Summit, Mo., respectively—studying business concerns related to agriculture, and two weeks of real life at the American Youth Foundation Camp, Camp Miniwanca, Shelby, Mich. There is also given to the outstanding agricultural freshman of the same colleges a half scholarship for the two weeks at the camp. Mr. William H. Danforth, Chairman of the Board of Ralston Purina Mills, is the donor of these fellowships. Selection is made on the basis of the four-fold development—scholarship, health, personality, character, and college activities. A committee of faculty members decides who is the winner. Two men are selected, one as winner, the other as alternate.

Would it not improve one's knowledge to travel across several states, meet, live and discuss with 39 picked students from agricultural colleges, all over the U. S. A. and Canada, for a period of four weeks; study the business methods and principles of one of the greatest agricultural industries on the continent, visit one of the finest model farms in the country; listen to great leaders, philosophers, psychologists, and poets? These are some of the things that the Danforth fellowship of 1942 has to offer you.

The first three days were spent visiting the Purina Experimental Farm at Gray Summit, Mo., 43 miles from St. Louis. This is a 540-acre experimental farm used as a testing ground for the products and feeds manufactured by the Purina Mills. It is an intensely practical farm, managed by farm-reared agricultural college trained men. We Danforth fellows were farmers for a while and worked with hogs, steers, dairy cattle, silver foxes, dogs, rabbits, and poultry. We studied the why of things and gained information that just gives one an inside track to become a better Ag man.

The 10 days spent at the Purina Mills could be properly termed "Exploring New Worlds." Classes in advertising, salesmanship, merchandising, price forecasting, office personnel, and in the operation and management of a big business opened to us new fields of thought.

Never in any business have I seen a group of office workers who were so trim and physically fit. Never have I heard of a company where more than half of its employees take night studies to improve their position. Never have I seen people with such happy dispositions and with such an eager attitude about their products. These are the results of an "I dare you" philosophy in business.

Included in the St. Louis program was a day at the St. Louis stockyards and Swift Packing plant, visit to the St. Louis Grain Exchange, the municipal opera, the zoo, Shaw Botanical Gardens, the Lindbergh trophies in the Jefferson Memorial, and a courtesy flight in a 20-passenger American Airlines transport.

At camp there awaited us one of America's greatest personalities, Mr. William Danforth. Everyone at camp is proud to humbly say that he now has a trace of the Danforth personality. When you meet him you go away enriched and challenged to better living. His motto of "my ownself at my very best all the time" is certainly

expressive of the wonderful personality he radiates.

At Camp Miniwanca is to be found a model of an educational, recreational camp. The camp theme is the four-square idea (physical, mental, social and religious). Gathered at this camp were approximately 300 boys. They represent the highest type of American Youth from the colleges, high schools and business firms.

Mentally the camp offers a lecture course in Christian Ethics taught by Dr. Lowe of St. Louis, who deals with problems of religion, morality, honesty, sex and marriage. Religiously, the camp offers a 15-minute morning devotion period, evening sunset service on the Michigan Vesper Dune, and a course in "Building a Christian Philosophy of Life," by Dr. Warmington, who is one of the 12 great thinking minds of the U. S. A.

Socially the camp offers an opportunity to meet 300 boys from almost every state in the Union in the tent, recreation rooms, the playing fields, and the many hikes and get-togethers. Physically the camp offers a well planned recreation system that includes boating, sailing, canoeing, swimming, soccer, tennis, and soft ball.

In addition our classes consisted of "Technique of Leadership," "Four-Fold Development," and a class entitled "Life Essentials." In the class "Life Essentials" we heard some of the country's outstanding business men express themselves. Invariably these men spell "success" with the letters W-O-R-K. L. A. Young, "the Wire King of the world," stated, "The two principles of success are honesty and hard work." There are jobs for those who are willing to work and maintain a high ethical standard of living. Try to do your job just a little better than someone else does it and you will be rewarded for your services in the end. "A man who never does any more than he gets paid for, never gets paid for any more than he does."

To everyone who reads this, I dare you to do something bigger and to be someone better; be your own self at your very best all the time. To the K. S. C. freshmen, I dare you to prove yourself this first year and be the outstanding man of your class. I dare you, and the sophomores, and the juniors, to win the Danforth Junior Fellowship.

Headless Sorghums Discovered in Plant Breeding Work Here

By PAUL KELLEY

Sorghum plants completely bare of heads and in many instances without branches were discovered this summer by Mr. E. G. Heyne, junior agronomist in the bureau of plant industry, U. S. D. A. in the sorghum breeding nursery at the Manhattan station. In the two rows of sorghums from sister head selections, Mr. Heyne found plants with smooth, bare peduncles, while sister plants in the same row had normal heads and produced the usual amount of seed. In a few instances, several branches occurred on the headless plants, but no floral structures were found.

This is not the first headless selection of sorghums made, as there is a variety of headless known at Hays. The genetic factors causing the headless condition are not known, nor is it known to what extent the headlessness would be inherited. Propagation of the selection of course must be by heterozygous "carrier" plants.

Mr. Heyne does not recommend the headless discovery as a method of reducing crop yields, or how to keep birds from eating the crop. The headless character of the plants presents some of the interesting genetic problems connected with plant breeding, and also gives a glimpse of the many difficulties that confront the plant geneticist.

John Dean, class of '40, is doing graduate work at Nebraska University.

John Lonnquist, from Nebraska University, is doing graduate work here in agronomy. John is working with hybrid corn selections.

Robert Bray, from the University of Wisconsin, is a new graduate student in the Department of Animal Husbandry.

Darrel Metcalf, from the University of Wisconsin, has taken the place of James Blodgett as graduate assistant in agronomy. James Blodgett has joined the army as Second Lieutenant and is located in Oregon.

Montee Baker, Nebraska University, is working on his master's degree in genetics here in the Animal Husbandry Department.

George Gooding, from Nebraska University, is a new graduate student in agronomy. George is working with alfalfa studies.

John Johnson, North Dakota, is a new graduate student in the Department of Milling Industry.

Sizzling Hot Steaks



● Wendell Moyer is "serving 'em up" to a few members of Block and Bridle, AH Club, at the annual steak fry. Ben Tempero is about to get a steak, while George Fritz and "Hobe" Frederick look on expectantly.

Say, Fellers!

When the ole' bus needs gas, oil, grease, flats fixed, mud washed off, etc., why not spend some of your money with a

Fellow Ag Student?

**FORREST
MEARS**

Aggieville Sinclair Service

1215 Moro

Death to the Flies from Rearmament Program

● Floyd J. Holmes, '40, of the Department of Entomology has received a scholarship from the Hercules Powder Company for the investigation of fly spray material which is produced as a by-product of gun powder manufacture and sold to fly spray manufacturers.

The scholarship provides \$600 for the part time employment of a student and the Company provides a \$500 expense fund to defray expenses in carrying out the work. The project is cooperative between the Departments of Dairy Husbandry and Entomology. Dr. A. O. Shaw of the Department of Dairy Husbandry represents that department and Dr. R. C. Smith represents the Department of Entomology.

Doctor Shaw is primarily responsible for the test as now carried out. Sixteen cows from the Kansas State dairy herd have been selected and placed in groups of four animals each. Hourly fly counts made on these cows make up the data from which the results will be computed. Results of the test will be available soon.

"The satisfaction the Hercules Powder Company has received from this test is expected to lead to a renewal of the scholarship for a second summer's work in 1941," Doctor Smith said.—Clayton David.



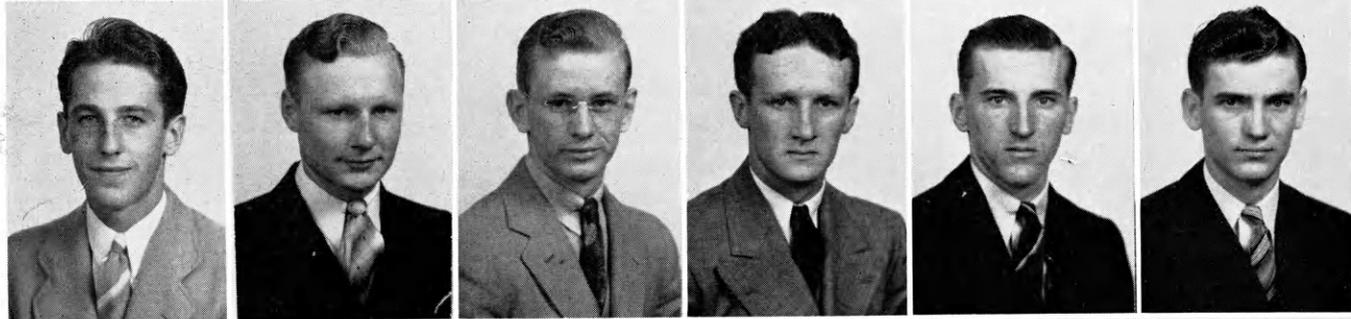
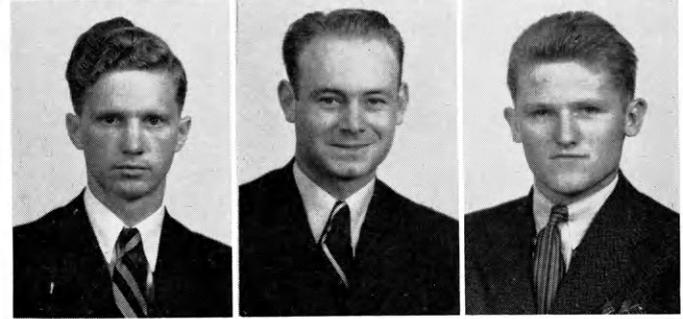
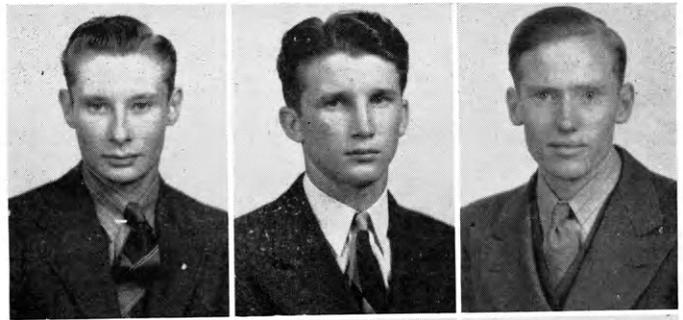
Class of 1944

Division of Agriculture

● On this and the following five pages are presented the Class of 1944, Division of Agriculture—"this year's crop of freshmen." The pictures are arranged alphabetically, left to right, and top to bottom.

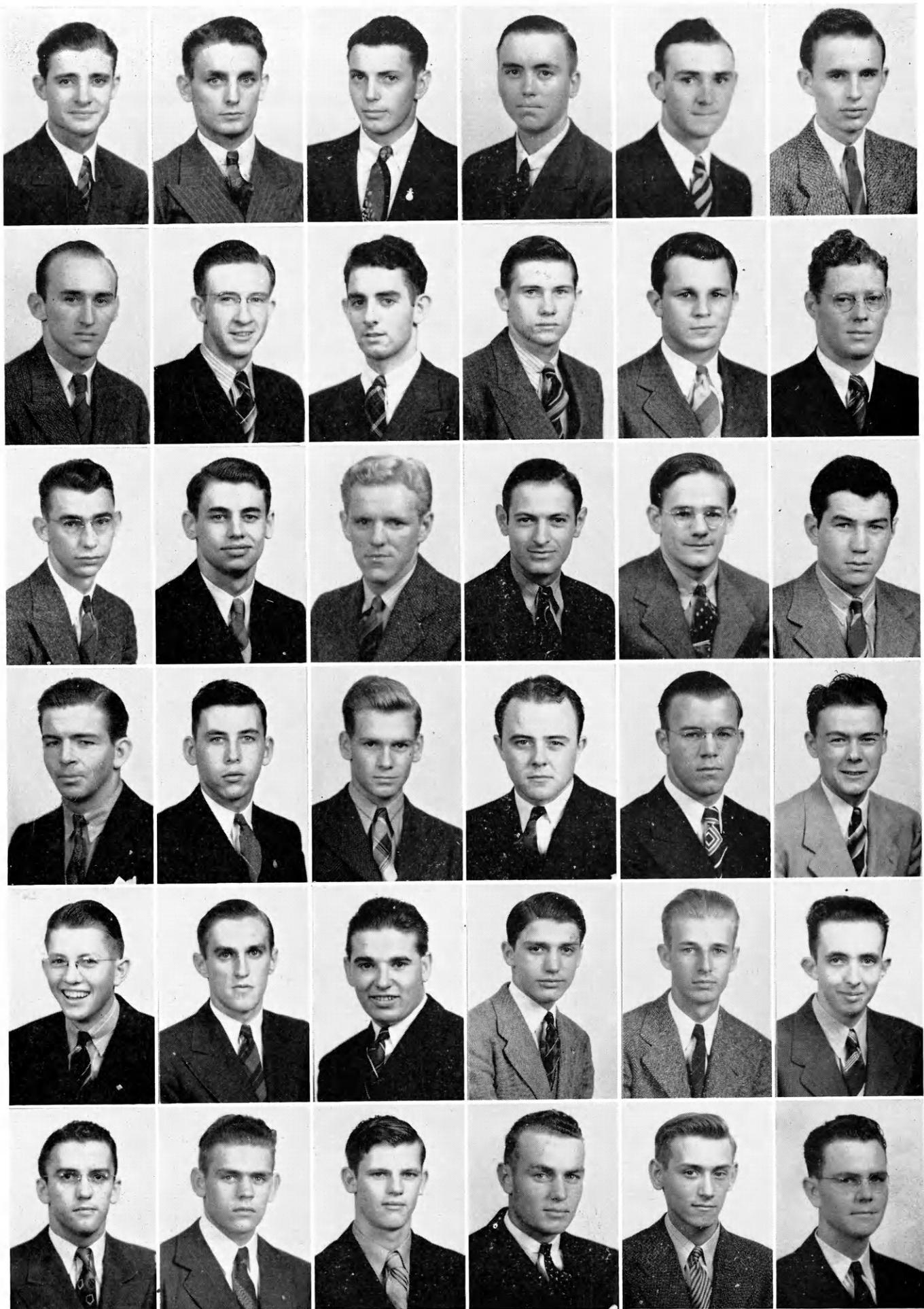
After looking them over, we think you'll agree that they're a pretty good-looking bunch of Kansas young men. Most of them look as though they know what they're here for, that is, to work and get an education in agriculture in the best agricultural school in the United States.

Greetings, Freshmen. We're glad you're here!



Top row.—Roman A. Abt, John M. Aiken, Lloyd G. Alvey.
Second row.—Wallace R. Anderson, John C. Banbury, Burke B. Boyer.
Third row.—Roy W. Beem, Charles K. Bentson, Elmer C. Betts, Maurice Bewley, Berend G. Bicker, Ronald G. Billings.
Fourth row.—John W. Bishop, Martin L. Blaser, David E. Bogart,

Clarence Bolz, Glenn E. Bowers, Kenneth C. Bowers.
Fifth row.—Dale E. Bowyer, Harry C. Brenner, Charles W. Brown, Gordon M. Brown, Charles G. Bruna, Maurice D. Cahill.
Bottom row.—Homer K. Caley, Lawrence M. Chain, Joe B. Chilen, Robert D. Chubb, Eugene F. Close, Seymour Cohen.



Top row.—Eugene F. Colle, Glenn A. Collins, Wayne O. Coltrain, Lloyd A. Coons, Evin E. Coulter, Bob M. Cowger.

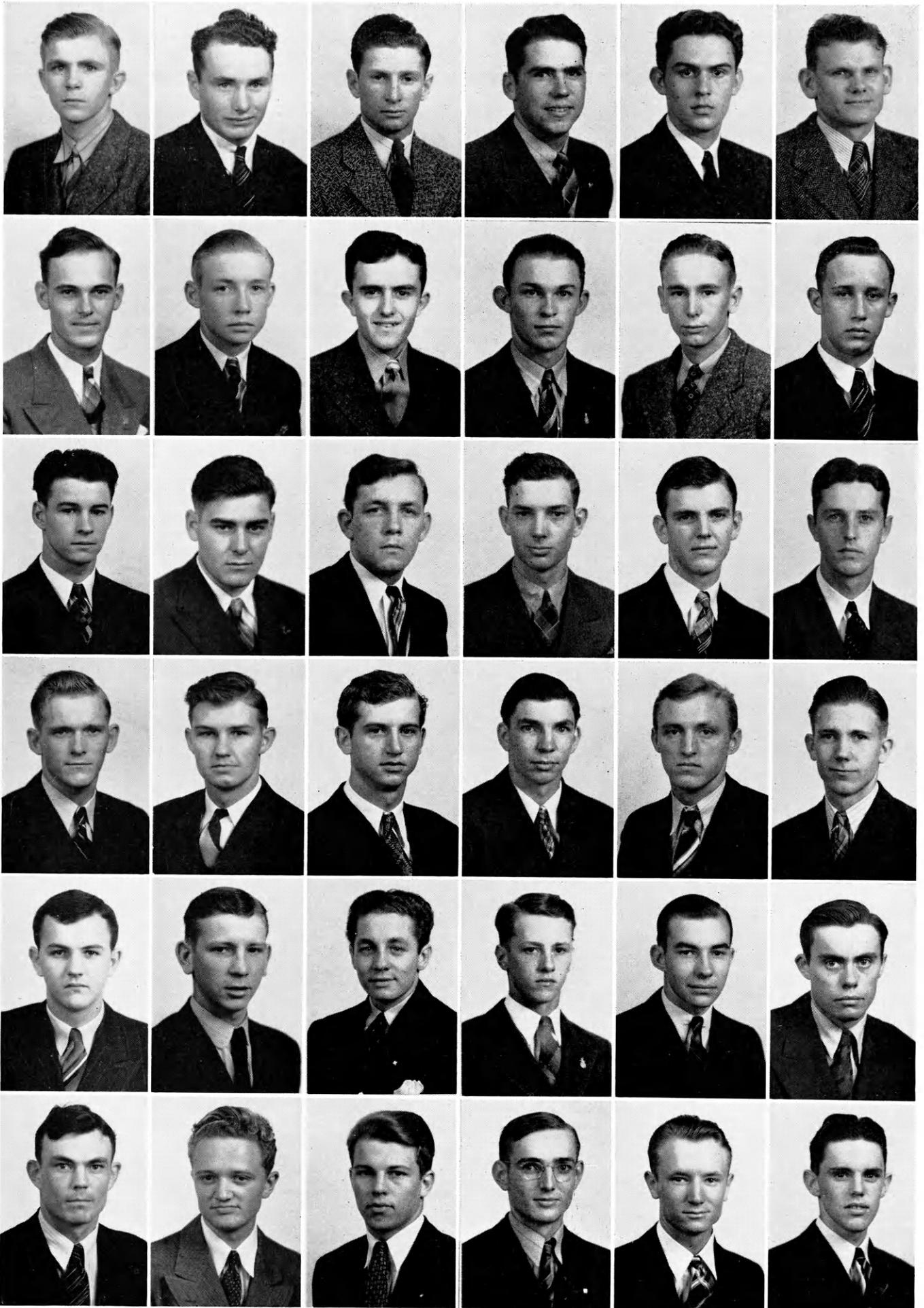
Second row.—Harold L. Cox, Russel J. Cummings, R. Bill Davis, Gerald E. DeBacker, Burton DeBaun, Curtis L. Dietz.

Third row.—Lue J. Dill, B. Marlo Dirks, W. Edwin Draheim, Douglas H. Drips, Jackson G. Dunbar, George H. Dutton.

Fourth row.—Charles W. Edgerton, Joseph Eisenbach, Homer R. Elling, Robert L. Emmingham, Lyle L. Engle, Charles W. Erickson.

Fifth row.—Eugene E. Euwer, Cecil L. Eyestone, Robert L. Fanshier, Louis A. Ferro, Richard A. Fincham, Willard J. Finegan.

Bottom row.—John W. Fitzsimmons, Robert J. Flipse, William E. Flory, Edwin R. Force, George A. Fredrickson, Floyd L. Frisbie.



Top row.—Thomas C. Galbraith, Howard F. Gant, Richard L. Gaston, George H. Gatz, Merrill G. Geiser, Robert E. Gilchrist.

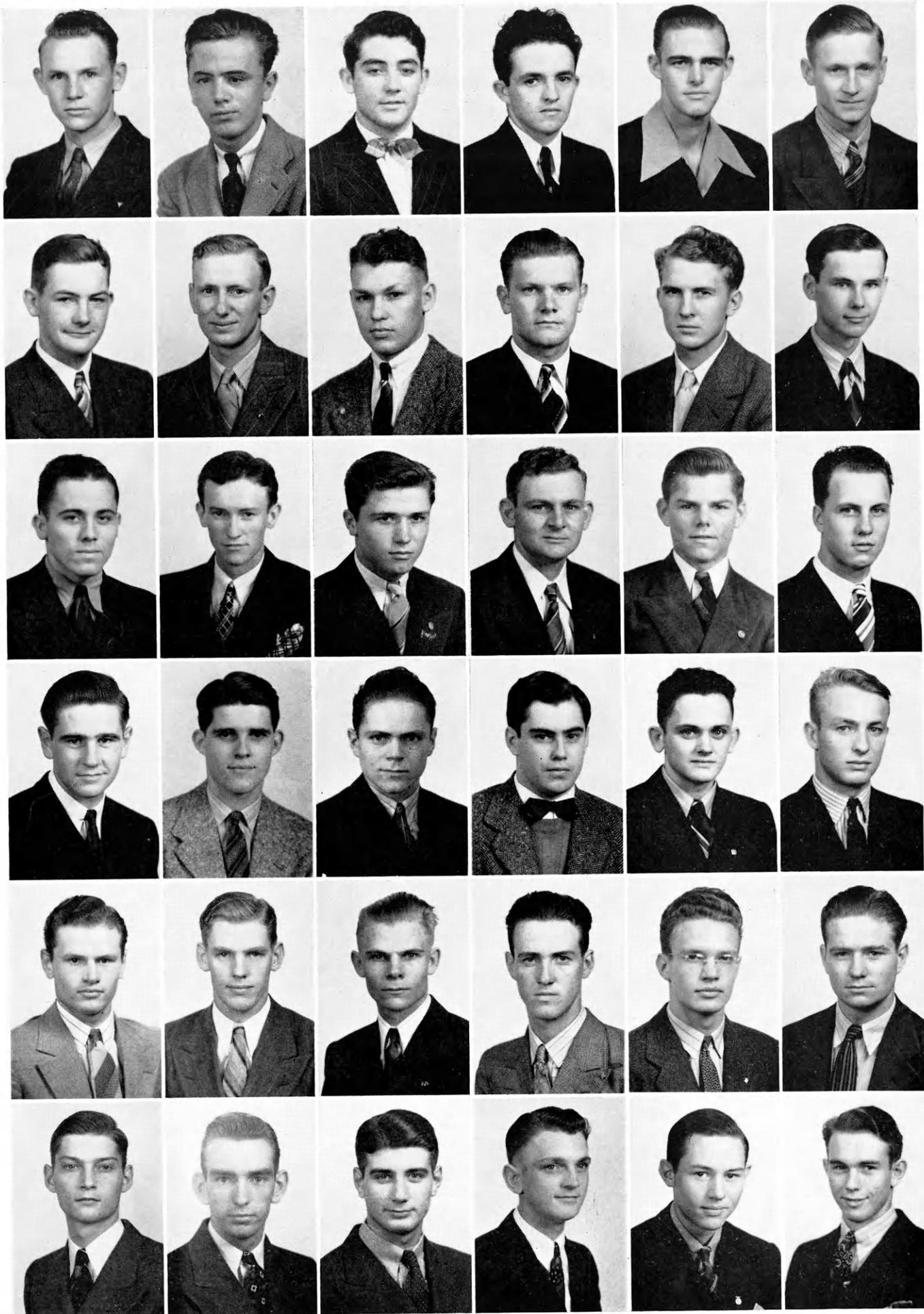
Second row.—Norman F. Goeken, Gerald D. Goetsch, Wayne L. Good, Corlis D. Goyen, William P. Griffith, Harold L. Hackerott.

Third row.—William D. Hadley, Marvin E. Hamilton, William F. Hanser, William Henry, Arthur N. Hibbs, Raymond F. Hoffman.

Fourth row.—Loren I. Holm, Don O. Hosler, Harold H. Hundley, Donald F. Irwin, James L. Johns, Harold D. Johnson.

Fifth row.—Howard J. Johnstone, Charles S. Jones, Harold L. Kaulousek, Richard M. Keith, F. Eugene Kimple, Dale A. Knight.

Bottom row.—Alfred J. Koch, Robert T. Kordisch, Lloyd E. Kuhnmuench, Warren J. Kurtenbach, James O. Larsen, Richard D. Lipsey.



Top row.—Leo V. Loewen, Cloral L. Lovell, Edward P. Lyons, John A. McCall, Ralph S. McCrea, John J. McLinden.

Second row.—Donald D. McWilliams, John R. Massey, Robert E. Mathewson, Gilbert J. Meyer, Archie L. Mizell, Carl C. Montgomery.

Third row.—Alfred A. Munroe, John H. Nelson, George S. New, Raymond T. Nichols, Edward C. Niemann, Norris D. Olson.

Fourth row.—Oren W. Page, Frederick N. Palmer, Clair K. Parcel, Charles H. Parizo, William H. Parmely, Rodney L. Partch.

Fifth row.—Leo D. Peddicord, Duane R. Peterson, Kenneth Peterson, William N. Phillips, Robert C. Pickett, Jack C. Pitney.

Bottom row.—Donald W. Pitts, William C. Porterfield, Eldon M. Reichart, Reuben C. Repstine, Harold M. Riley, Michael H. Roller.



Top row.—Carl Roth, John E. Saylor, E. Clarence Schermebeck, Warren Schlaeger, Kenneth R. Scoby, Melvin F. Scoby.

Second row.—Chester O. Sebert, Harry E. Shank, James H. Shaver, Harlan R. Shuyler, Walter H. Smith, John W. Spencer.

Third row.—Fred C. Sprague, Dale F. Starr, Jeral D. Stewart, Lester E. Stewart, Melvin J. Stiefel, John H. Tasker.

Fourth row.—Bernard Taub, Donald R. Teply, Glenn S. Thomas, Ralph L. Tichenor, Herbert D. Vanderlip, Wayne H. Ward.

Fifth row.—Edward L. Weaver, Max C. Weeks, Glenn A. Weir, Donald E. Wells, Winfred Wells, Max M. Wenrich.

Bottom row.—Wesley H. Wertz, Frederick T. Westhusin, William K. Wieland, Ellis R. Wise, Vernon W. Woestemeyer, Frank E. Wolf.



Chester B. Wood, Robert G. Wood, Neal E. Worley, Charles A. Worthington, Robert C. Yapp, Foster W. Yeager.



Landscape Cosmetics Being Applied to Willard Hall

By WALTER KEITH

Willard Hall is our newest and perhaps our most beautiful building on the Kansas State College campus. It is fitting that such a beautiful structure should be placed in an equally beautiful setting. This is to be accomplished by landscaping. L. R. Quinlan, professor of landscape gardening, in the department of horticulture, is in charge of developing the landscape on the campus. A complete plan has been worked out by Professor Quinlan and, to date, is about half completed. The work of landscaping Willard Hall has been under way ever since completion of the building during the summer of 1939.

A year ago evergreen plantings were placed around the main and subordinate entrances of the west facade. These plantings included two upright Junipers faced down with small spreading Junipers at the main entrance. At the two subordinate entrances small globe-shaped junipers are placed on either side of the steps and are faced down by Mugho pines. Other evergreens were placed at the bottom of the east entrance steps, and below the retaining wall. A grouping of Spruces and Pines were placed beside the walk in front of the building opposite the northwest corner to balance that existing planting opposite the northeast corner.

Last spring, deciduous plantings were made around the north and south entrances, including lilacs faced down by mentor barberry, with red bud around all of the corners. Lombardy poplars accent the lines of the building on the east and terminate the extreme ends of the retaining wall. On

the west side are small privet hedges along the walks, and four beds of polyantha roses, which serve as an item to discourage those students wishing to cut corners of the sidewalks, thus tramping on the grass. This serves its purpose well, also providing a pleasant accent of color on the east side entrances.

The two gardens on the terraces on the east side of the building are proving to be two of the main beauty spots on the campus. They take on a formal aspect with the north garden being composed of flowers of many types and colors, intermingled with evergreens and deciduous shrubs. The south garden contains broad-leaf evergreens and vines with a few scattered flowering plants to add color.

The present uncompleted plan includes three garden seats to be placed in the evergreen garden and six garden seats to be placed in the flower garden.

The retaining wall on the east side is well planted with deciduous shrubs, consisting of hardy shrubs and small trees well suited to Kansas landscapes.

The landscaping will continue for some time until a complete picture has been formed. This will include grading and planting of the areas surrounding the building, and development of the north quadrangle by planting American Elms, and establishing a good turf. The terraced gardens will be completed with garden seats and will require much attention, keeping the specimen plants growing well.

All in all, the landscaping has progressed very well, but is far from completed. If one may keep this in mind he may picture the setting of this fine architectural masterpiece as it will appear five years from now.

24 Ag Frosh Earned "B" Average

Twenty-four of the 194 freshmen enrolled in the Division of Agriculture last year made an average grade of "B" or better. The parents of each of these students received letters of congratulation from Prof. M. W. Furr, chairman of the committee on student honors.

This achievement should be an incentive for the student to continue this good work for the remainder of his college career. The outstanding graduates of the division are usually in this group.

Those who made a "B" average or better for both semesters last year are: Gordon Bartholomew, Alton; Max Benne, Morrowville; Freeman Biery, Stockton; Edward Buss, Holton; Homer Cornwell, St. John; Roy Currie, Manhattan; Daniel Durniak, Germantown, N. Y.; Roscoe Ellis, Jr., Havensville; John Gilkison, Larned; Wayne Godsey, Netawaka; Warren Harris, Havensville; Joseph Jagger, Minneapolis; Paul Kelley, Solomon; Norman Kruse, Barnes; John McCammon, Americus; Roger Murphy, Norton; James Nielson, Marysville; Lowell Penny, Lawrence; William Robertson, Barnard; Darrell Russel, Canton; Wilbur Soeken, Claflin; Wayne Thompson, Larned; Amos Wilson, Manhattan; Donald Wood, Trousdale.

Valdine Combs made a "B" average the second semester after he transferred here from Hays.—Robert Singleton.

Can You Find Your Name on the Ag Honor Roll?

● No flunk slips haunt the boys whose names make up this list.

● Of the 715 students enrolled in the division of agriculture last fall, 216 have attained the honor of having their names appear on the honor roll of the Kansas Agricultural Student. One hundred thirty-five students qualified for the high honor roll and 126 appeared on the honor roll.

The Kansas Agricultural Student prints this list each year and it is the desire of every student in the division to find his name in one of the columns. This is an attainment that students work for from year to year. Students are anxious to see their names appear near the top of their respective classes. The parents of these students are proud to see the name of their son appear on this honor list.

To have their names appear on this honor roll, students must carry at least 12 credit hours of work each semester, have no serious delinquencies against them, and must earn at least 48 points. The high honor roll includes those that have made a "B" average or better.

The honorary organizations in the division select their members from students appearing in this list. This is an honor worth working for.

The names of the honor students appear below:

SENIOR HIGH HONOR

	Sem. Hrs.	Pt. Av.
Leo M. Hoover.....	31	2.87
Donald I. McCoy.....	35	2.82
Henry J. Meenen.....	33	2.75
Lester J. Hoffman.....	31	2.67
William B. Ackley.....	32	2.65
John A. Shaw.....	30	2.63
John H. McCoy.....	32	2.59
John G. Dean.....	29	2.51
Robert N. Shoffner.....	30	2.50
Harold E. Jones.....	34	2.47
I. Kieth Harrison.....	36	2.45
Dwight K. Ellison.....	34	2.44
Delbert E. McCune.....	36	2.44
J. Wallace Kirkbride.....	32	2.43
Richard M. Bullock.....	28	2.39
Wm. A. Ljungdahl.....	33	2.36
Marvin R. Shetlar.....	31	2.35
Marcel D. McVay.....	32	2.34
Kenneth F. Parsons.....	32	2.34
J. Leslie Clow.....	34	2.32
W. Ormond Breeden.....	36	2.31
J. Thomas Neill.....	38	2.31
Evans E. Banbury.....	33	2.30
Ralph L. Gross.....	32	2.25
Kenneth B. Porter.....	31	2.25
George W. Kleier.....	33	2.18

Wade A. Brant.....	36	2.16
Thaine A. Clark.....	33	2.15
Clifton E. Jackson.....	32	2.15
Ray E. Cudney.....	34	2.14
Eugene W. Baird.....	31	2.12
Gerald H. Ingram.....	31	2.12
Dale E. Mustoe.....	32	2.12
Kenneth H. Praeger.....	33	2.12
Floyd W. Berger.....	35	2.11
Charles L. Streeter.....	36	2.11
Alfred L. Anderson.....	34	2.08
Aaron K. Schmidt.....	33	2.06
Russell W. Blessing.....	32	2.03
Travis E. Brooks.....	33	2.03
Raymond S. Tanner.....	33	2.03
Walter J. Campbell.....	34	2.02
Kenneth T. Sherrill.....	35	2.02
Willard C. Davis.....	25	2.00
Robert B. Lank.....	35	2.00
Kieth B. Wagoner.....	29	2.00

JUNIOR HIGH HONOR

Milton L. Manuel.....	33	2.78
George W. Cochran.....	35	2.74
Henry J. Smies.....	33	2.72
Emerson L. Cyphers.....	34	2.67
Paul E. Sanford.....	30	2.66
Paul E. Smith.....	33	2.66
Glenn Busset.....	33	2.64
Boyd H. McCune.....	37	2.59
Arden Reiman.....	32	2.53
Frank A. Slead.....	32	2.53
Harry Cowman.....	33	2.51
Paul L. Brown.....	34	2.50
Orville W. Love.....	32	2.46
Lloyd C. Jones.....	32	2.43
Orville B. Burtis.....	32	2.40
Dale C. Hupe.....	33	2.36
Eugene E. Woolley.....	31	2.35
Leland C. Groff.....	31	2.33
Arthur Stiebe.....	31	2.32
David H. Long.....	35	2.28
Richard E. Atkins.....	34	2.26
Howard L. Carnahan.....	32	2.25
Doyle W. LaRosh.....	31	2.22
Harold R. Jaegger.....	34	2.20
Merton B. Badenhop.....	36	2.19
John Dummermuth.....	32	2.18
John Stanley Winter.....	32	2.18
Harold R. Fox.....	25	2.16
Roscoe D. Long.....	33	2.15
Eugene L. Watson.....	32	2.15
Robert B. Wells.....	32	2.12
Bertram W. Gardner.....	32	2.03
John R. Weddle.....	33	2.03
Frederick R. Meenen.....	34	2.02
Wayne R. Colle.....	35	2.00
Warren Rhodes.....	32	2.00
Rollin W. Starosta.....	33	2.00

SOPHOMORE HIGH HONOR

George C. Wreath.....	32	2.87
Robert E. Wagner.....	29	2.82
Raymond R. Rokey.....	32	2.78
Floyd W. Smith.....	35	2.65
Robert R. Singleton.....	29	2.64
Donald E. Fleming.....	32	2.53
Murray Kinman.....	33	2.51
Joseph W. Mudge.....	32	2.43
Paul Q. Chronister.....	31	2.41
Oscar W. Norby.....	32	2.40
Acton R. Brown.....	32	2.31
Scott W. Kelsey.....	32	2.31
Francis R. Wempe.....	33	2.30
Wilbur W. Hart.....	29	2.24
Arlin W. McClurkin.....	29	2.24

Ray A. Keen.....	29	2.20
Harvey R. Kopper.....	34	2.20
Gilbert Branda.....	32	2.15
O. Conrad Jackson.....	32	2.15
Louis C. Ate.....	28	2.14
Edward H. Mayo.....	34	2.14
Roger Phillips.....	30	2.13
Clarence Imel.....	32	2.12
Leonard A. Deets.....	32	2.09
Joseph S. Rogers.....	32	2.09
Raymond W. Headrick.....	33	2.06
Eugene C. Hersche.....	32	2.06
Ethan Potter.....	32	2.06
Richard G. Wellman.....	30	2.03

FRESHMAN HIGH HONOR

John J. Gilkison.....	33	2.63
Warren G. Harris.....	32	2.62
Roger C. Murphy.....	32	2.59
Joseph E. Jagger.....	33	2.54
Wayne W. Thompson.....	33	2.48
W. Bruce Robertson.....	33	2.45
Paul L. Kelley.....	33	2.39
Homer Jacob Cornwell.....	35	2.38
Roscoe Ellis.....	33	2.36
James M. Nielson.....	33	2.36
Darrell A. Russel.....	31	2.32
Gordon Bartholomew.....	33	2.30
Max Benne.....	33	2.30
Amos Wilson.....	33	2.27
Lowell H. Penny.....	32	2.21
Edward G. Buss.....	30	2.10
Daniel Durniak.....	33	2.09
Norman L. Kruse.....	34	2.05
Wayne L. Godsey.....	30	2.03
Donald R. Wood.....	30	2.03
Freeman E. Biery.....	35½	2.01
Roy G. Currie.....	30	2.00
Wilbur W. Soeken.....	33	2.00

SENIOR HONOR

	Hrs.	Pts.
William M. Beezley.....	30	52
John K. Blythe.....	33	51
Ralph A. Boehner.....	34	56
Leo J. Brenner.....	32	55
James C. Brock.....	33	57
Charles O. Carter.....	27	53
Lee W. Collinsworth.....	35½	66½
Louis W. Cooper.....	31	54
Donald E. Crumbaker.....	33	62
Paul S. Danielson.....	33	64
Wilbert W. Duitsman.....	36	71
Leland S. Frey.....	32	52
Gaylord G. Green.....	32	55
Gordon C. Green.....	32	52
Richard W. Heikes.....	34	63
Elizabeth Holman.....	29	54
Elgie G. Jones.....	34	53
Ronald B. King.....	33	58
Donald B. Kinkaid.....	35	56
Wesley C. Kirschner.....	31	50
Roy W. Kiser.....	33	54
Glenn H. Kruse.....	35	63
Roland A. Kruse.....	31	51
Harry Longberg.....	33	53
Richard H. Magerkurth.....	28	49
Wayne D. Morgan.....	30	54
Robert C. Mossman.....	33	51
Sheryl A. Nicholas.....	31	52
Melvin C. Poland.....	32	59
Byron Quinby.....	31	50
Wilbur A. Rawson.....	34	67
Brace D. Rowley.....	34	53
George W. Schiller.....	31	54
Francis B. Shoup.....	35	59
Edward Smerchek.....	32	51
James W. Speers.....	33	59
Beverly D. Stagg.....	34	63
William F. Stewart.....	33	58
William W. Wempe.....	30	49
Glenn A. West.....	36	68
John R. Works.....	37	65

JUNIOR HONOR

Merrill Abrahams.....	30	53
William B. Briggs.....	33	48
Lester E. Brown.....	33	60

(Continued on page 20)

Sears Club, Like Little Topsy, "Just Grew and Grew"

● *Agricultural foundation enables 15 Kansas farm boys to come to Kansas State each fall; almost \$10,000 in awards here.*

By PAUL KELLEY

SIXTY students—\$9,950 gratis—and 60 farm lads have enrolled in agriculture at Kansas State College during the past four years. How?

The Sears Roebuck Agricultural Foundation in 1936 launched a scholarship program which would provide scholarships for farm boys to attend land grant colleges in many states. In the fall of 1937, Kansas State College was added to the list of 16 schools receiving Sears Scholarship grants, and for the first time Sears Scholars became known on our campus.

Each college receiving Sears grants has complete charge of awarding the scholarships with no strings attached. Each year at Kansas State a committee composed of Assistant Dean Mullen and the heads of the departments in the Division of Agriculture select 15 farm boys who have demonstrated outstanding ability and whose attendance at college depends on receiving the award to receive a freshman scholarship of \$150 each. These scholarships are awarded on the basis of leadership, character, cooperative group activities, and scholastic achievement demonstrated by their records made while in high school and in the home community. Activities such as FFA judging teams, debate teams, athletic teams, leadership, and 4-H work are included in the accomplishments of these freshman scholarship winners.

At the close of the freshman year, the outstanding student of the 15 freshmen scholarship winners is selected by a faculty committee to receive a \$200 scholarship. Oscar Norby was the winner in 1939 and Paul Kelley won the award this year.

At the end of the sophomore year, the 15 again compete for a trip to Chicago and a chance to win a \$500 senior scholarship and a \$250 junior scholarship. Last June, Oscar Norby was awarded the trip to Chicago, where in competition with the outstanding men from 21 other states

he was awarded the \$250 scholarship.

Sears scholars rank high in their various colleges. On a basis of a three-year scholastic performance, the 1937-38 Sears scholarship students averaged 22 percent higher grades than for all boys in agriculture who went through three years. In this rating, Kansas State scholars averaged 58 percent better grades. Kansas State Sears scholars were represented on all judging teams in the Division of Agriculture the past year, and in all the departmental clubs of the division. Seven are members of Alpha Zeta, honorary agricultural fraternity.

Beginning next January, Sears will inaugurate a new type of scholarship when 40 young farmers, 21 to 40 years old, from the Eastern section of the state, will be awarded \$50 scholarships to a specialized short course at Kansas State College. In January of 1942, the men will be selected from the Western section of the state. These

scholarships are awarded on the basis of good farm management practices and community leadership. They must be nominated by a neighbor, and final selection from each county will be made by the president of the county Farm Bureau and his committee.

Cow in College Dairy Herd Sets New Kansas Record

New Kansas milk and butterfat records have been established by Piebe Sunflower, a Holstein in the Kansas State College dairy herd.

These new records are for senior three-year-olds tested in the ten months and yearly divisions on three-time-a-day milking. Certified records received from the Holstein-Friesian Association show that this cow produced 16,378 pounds of milk containing 561 pounds of fat in ten months and 17,123 pounds of milk with 591 pounds of fat in twelve months.

The new record in the ten months division exceeds the previous state record by 146 pounds of fat and the yearly record by 52 pounds of fat. The previous ten months record was also held by a Kansas State College cow, Dean Inka Eileen.

William Ljungdahl, '40, is graduate assistant in meats at Michigan State College, East Lansing.

The 1940 Sears Freshmen



Prof. C. W. Mullen, assistant dean, and foster father of all Sears scholarship students, believes that this year's group of Sears freshmen will compare favorably with any of the other groups in other years. Pictured above are the 1940 freshmen. From left to right, seated, are John Tasker, Lyle Engle, Richard Keith, Harry Brenner, David Bogart, Glenn Thomas and John McCall. Those standing are: Bob Flipse, William Phillips, Arthur Tunison, Harry Shank, John Aiken, Lloyd Alvey and Gerald Goetsch. William Hadley, another of the group, was unable to be present for the picture.



1940 HONOR ROLL

(Continued from page 18)

James D. Bulger	31	60
Clayton C. David	33	57
Paul R. Edwards	30	53
Rush Elmore	30	51
Eugene Fair	32	51
Jack Featheringill	32	50
Taylor L. Fitzgerald	32	62
John L. Foley	27	50
HoBart W. Frederick	32	54
Jackson George	34	64
Dave J. Goertz	30	52
Wilbert Greer	33	64
Frank W. Howard	32	56
Howard M. Hughes	31	51
Rees W. Hughes	33 1/2	52
Walter M. Keith	33	58
Lawrence E. Kelley	29	52
Lyman D. Ketchum	27	49
G. Nolan McKenzie	35	57
Arthur Mangelsdorf	35	69
Willard H. Meinecke	29	48
Russell W. Miller	35	56
Ray Morrison	33	59
Russell C. Nelson	32	48
Robert S. Nixon	31	48
Harry E. Plotkin	37	58
Albert H. Praeger	37	70
H. Lyman Singer	33	58
George L. Sundgren	33	54
Perrin K. Symms	31	60
Ben W. Tempero	33	59
A. Paul Timmons	36	61
Merle R. Whitlock	33	50
Dean W. Whitmore	31	49
Carlyle P. Woelfer	35	65
Charles E. Works	31	56
Mack Yenser	33	53
Albert W. Yoxall	30	56
FRESHMAN HONOR		
Harold L. Bellairs	26	50
Gordon E. Hoath	33	65
Alfred C. Huttig	32	48
Malvin G. Johnson	30	53
Kiech G. Jones	33	58
Ralph J. Kueker	33	60
William R. McMillan	33	63
Hall B. Milliard	34	52
Carroll A. Mogge	30 1/2	59 1/2
Larry L. Morrow	32	55
John B. Murphy	30	52
Carl B. Overley	33	51
Robert F. Randle	33	63
Charles B. Schwab	33	55
Orville A. Schwanke	34	60
John W. Vawter	33	48
Robert O. Yungbans	29	57
SOPHOMORE HONOR		
Howard R. Anderson	27 1/2	50
Ralph E. Barker	32	53
Ralph J. Bieberly	34	48
Darrell R. Bozarth	30	52
Lester J. Brenneis	27	51
Arlo A. Brown	29	54
Dale E. Brown	31	49
Richard L. Cadwell	32	48
C. Bertil Danielson	32	59
Thello C. Dodd	31	49

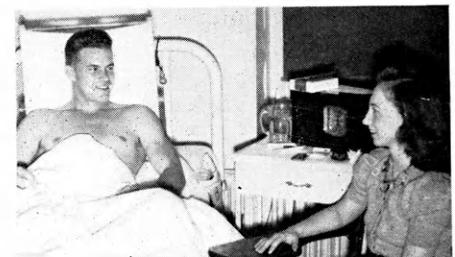
Calvin A. Doile	32	54
Theodore Ehlert	35	53
William R. Fockele	31	49
Eldon D. Gladow	28	49
William D. Guy	31	52
William G. Kelly	32	57
Glenn A. Koby	30	51
Robert C. McClymonds	32	54
Dale F. McCune	32	59
Frank L. Marcy	32	62
Wendell A. Moyer	34	55
Louis E. Poggemeyer	28	52
Edward A. Reed	33	64
W. Dick Turner	26	48
Gerald S. Wagstad	33	60
Dean K. Weckman	32	57
Frank W. Wichser	33 1/2	49 1/2

Richard C. Johnson, a graduate of Michigan State University, has filled the vacancy made by the resignation of L. F. Smith in the Department of Forestry.

Glenn West, a graduate in the Department of Milling Industry last year, is continuing in school here, working on his master's degree.

Haurace Traulsen, from Nebraska University, has taken the place of Glenn Klingman as farm crops assistant.

No More Football



● Gene Fair, AH4, Student Council, Varsity Football, etc., in the College hospital with a broken leg. The visitor is a cousin of Gene's, Blanchetta Fair.

Lloyd F. Smith has resigned his position as Associate Professor of Forestry and is now located in Arlington, Va. He has not accepted a position as yet.

Leonard Miller resigned his position on the faculty of the Department of Agricultural Economics to accept a position on the faculty of West Virginia University at Morgantown.

Borden Award to Dr. D. C. Warren

● Dr. D. C. Warren, poultry geneticist, was awarded the Borden award, consisting of a gold medal and \$1,000, for distinctive contributions to the advancement of poultry science at the annual meeting of the Poultry Science Association held last June at Cornell University, Ithaca.

All poultry research workers within the United States and Canada are considered in selecting the winner. Dr. Warren received the award for outstanding achievement in his research work during the past five years. His work has been directed in the field of genetics and physiology of reproduction of the fowl, hybrid vigor in poultry, mapping of the genes in the fowl, and the developing of new methods of sex identification in day-old chicks.

Dr. Warren received his B. A. and M. A. degrees from Indiana University and his Ph. D. degree from Cornell University in 1923.

Some of Dr. Warren's other achievements have been the Poultry Science award of \$100 in 1933 for outstanding research for that year, and he was made a Fellow in Poultry Science in 1938, an honor given only to 11 other poultry workers in the history of the Poultry Science Association. He has also had 48 articles published in various poultry science journals.

—David Long.

STUDIO ROYAL

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Membership Isn't Required But It Helps Lots

"What are all these agricultural clubs and honorary organizations that we hear so much about?" That is the question commonly asked by new students on the campus.

There are four honorary organizations of which any student in the Division of Agriculture may become a member if he can meet their requirements. These are Alpha Zeta, Gamma Sigma Delta, Phi Kappa Phi, and Sigma Xi.

Alpha Zeta is a national honorary agricultural fraternity and has the following qualifications for membership: "Any male student who is enrolled in agriculture, who has completed three semesters of college work, who stands in the upper two-fifths of his class scholastically, and who has demonstrated himself to possess good personality and character, and a marked degree of leadership."

Each semester there is an election of new members at which time those who the chapter feels are worthy of membership are elected. It is evident from the above qualifications that to become a member of Alpha Zeta, a man must be outstanding and well balanced, possessing not only qualities of scholarship but also leadership, character, and personality.

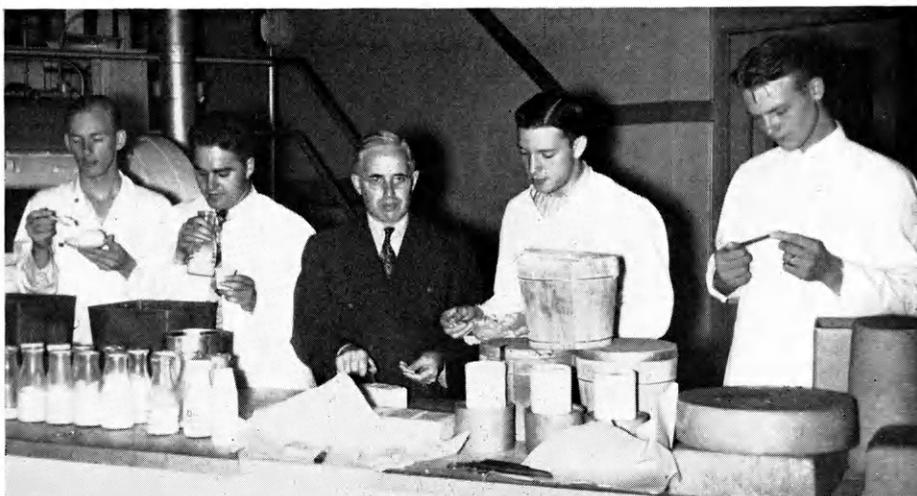
Alpha Zeta strives for closer relationship between faculty members and students of agriculture and among students themselves. Its chief aim is to further and promote interest in agriculture.

Kansas State College also has a chapter of Gamma Sigma Delta, the national honor society of agriculture. Seniors in the upper one-fourth of their class, scholastically, are eligible for election by faculty members of the chapter. Gamma Sigma Delta seeks to encourage high standards of scholarship and worthy attainment in all branches of agricultural science.

Phi Kappa Phi is a national scholarship honorary open to senior students in all divisions in the upper ten percent of their class. Eligibility for membership is based solely upon scholarship.

Sigma Xi is an honorary organization to which members of faculty and graduate students are eligible for election to active membership. Seniors who have shown marked excellence in two or more departments of pure

Dairy Products Judging Team



● Prof. W. H. Martin and his dairy products judging team placed twelfth at the national dairy products judging contest at Atlantic City, N. J., recently. In the picture, from left to right, are Dale Brown, Melvin Marcoux, Prof. W. H. Martin, Clayton David and Conrad Jackson.

or applied science are eligible for election to associate membership.

In addition to these four honorary societies the students of the Department of Milling Industry have their own honorary fraternity, Alpha Mu, whose membership is limited to milling students. Scholarship and character are first considerations for membership.

Agricultural organizations on the campus do not limit themselves to honorary societies, however. Each department in the Division of Agriculture has its own departmental club, of which any student in the department may become a member if he so desires.

The Agronomy Department has the Klod and Kernel Klub, more commonly known as the Tri-K Club, as its departmental organization. The Tri-K Club sponsors the spring crops judging contest, open to any agricultural student.

The Block and Bridle Club is the Animal Husbandry departmental club. Together with the Dairy Club and the Agricultural Association, the Block and Bridle Club sponsors the Little American Royal fitting and showing contest held in connection with the annual Farm and Home Week. The club also sponsors a student livestock judging contest in the spring.

The Dairy Club, as the name implies, represents the Dairy Department as its departmental club. In addition to being co-sponsor of the Little American Royal, they sponsor the

annual spring dairy products and dairy cattle judging contests for students.

The Agricultural Economics Club, or Ag Ec Club, is the departmental organization of the Agricultural Economics section of the Department of Economics and Sociology. Every member of the Ag Ec Club looks forward to the "get acquainted" smoker staged each fall. The club assists in conducting campus tours during Farm and Home Week.

The Poultry Club is composed of students and faculty members interested in Poultry Husbandry. Each year they sponsor the poultry judging contest, open to agricultural students.

Horticultural students and faculty are members of the Hort Club. It was this club that initiated the annual ping pong tournament of the departmental clubs. Members of the club assist in the annual Horticultural Show put on by the Department of Horticulture.

Active membership in these organizations should be the aim of every student in the agricultural division. It offers a valuable diversion from the regular routine of college life. It adds a valuable supplement to that which the books and instructors have to offer. It affords closer relationship to faculty members and among fellow classmates, and will inevitably have a direct bearing upon success in later life.—*Bob Wagner.*

Harold Jones, class of '40, is doing graduate work at Purdue.

Traveling the Country with a Noted Show Herd

● *Dairy boys combine experience of show ring with valuable practical education.*

By BOB WAGNER

AFTER a summer of following the show herds from Maryland to Sacramento, three Kansas State Dairy Students are facing the academic struggle, handicapped by enrolling nearly three weeks late. Of their personal experiences on the show herds, the boys 'just ain't a talkin', but they were all enthusiastic about the show ring education they received, as well as the fine experiences and travel.

"Well, I'm still trying to catch up on classes I've missed by enrolling late," said Ralph Bonewitz, "but you can tell anyone for me that they'll learn more in the show ring, or while following a show herd than they will in some classes."

Bill Mudge, junior from Gridley, doesn't regret for a minute the classes he missed while working for the Hallmark Farms. "If you get a chance to go on a show herd for the summer, be sure and take it," Bill says. "I probably got acute indigestion from eating all that fair-ground food, but it was worth it."

Bill left his job at the College dairy-barn June 25 to work with the Hallmark Farms Jersey herd at Kansas City, Kansas. On August 14 Bill, a few other guys, and 17 head of show Jerseys were shipped to the Illinois State fair at Springfield. The show

day started at four o'clock in the morning and lasted as long as there was anything to be done. Bill never helped show in the ring, but he was responsible for the appearance of the cattle ready to enter the ring, also helped feed all the cattle. Six blue ribbons, and other placings were taken there.

The toughest competition of the show circuit was met at the big Ohio State fair at Columbus. Over 300 head of Jerseys, representing some of the best herds of the east were there. The grand champion female, and the undefeated two-year-old cow were the chief prizes won there.

The next big jump was away over to the Maryland State fair near Baltimore. Maryland seems to be in the blue grass racing region, for far more attention was given to horse racing at the fair than to other commercial livestock. The horse races continued for about 10 days after all the show stock had left.

For five days Bill and the other boys rode in the 50 foot box car with the cattle, from Maryland to Tulsa, Oklahoma. They didn't have to sleep with the cattle, as they had a tier of bunks built up above the herd, but they were so close to the top of the car they couldn't stand up, so most

(Continued on page 23)

Install New Refrigerating Equipment

● An entirely new refrigeration system was installed in the meats laboratory during the summer by the Baker Ice Machinery Company of Omaha, Nebr. The refrigeration system of the entire laboratory is operated from two compressor units. This offers an excellent opportunity for study of the best cooling temperatures as the temperature of each of the coolers can be held at any temperature that is desired for any specific purpose.

In addition to the cooling system the laboratory has been equipped with a freezer cabinet which makes possible sharp freezing samples of meat at temperatures of from -20° to -30° F. Storage temperatures in the cabinet can be had at from 0° to -10° F. The purpose of the cabinet is to offer opportunities for investigating the relation of temperature to the methods of preparing and storing meat in the frozen condition. This method of storage is now common and is growing more popular throughout Kansas and the neighboring states for both fresh meats and vegetables.—J. S. W.

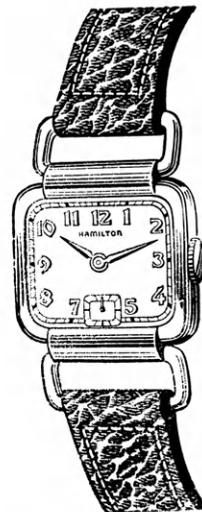
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TRAVELING THE COUNTRY

(Continued from preceding page)

of the time was spent near the car door watching the scenery, while they weren't feeding, watering, or milking the cows.

After Tulsa, the last stop was the Kansas State fair at Hutchinson, where the usual quota of prizes was won. Bill got back to Manhattan about October 5, and started in working at his old job at the dairy barn.

Ralph Bonewitz worked the summer with the G. Fred Williams Ayrshire show herd. In one big jump, they left the farms south of Hutchinson with 22 show cattle, and landed at the Somona county fair, which Ralph described as much bigger than our state fairs in this region. The herd won eleven blues out of the possible 15, and had both grand champions. The next move was up the coast to Ferndale, a small town only about 25 miles from Oregon, to the Humboldt county fair.

Ralph was especially impressed by the large prizes given at the county fairs, in comparison to the county fairs here. The money for these prizes is obtained chiefly by the well-advertised and well attended horse races. The income is derived from the state approved pari mutuel betting system, which returns a certain percentage to the fair officials. . . .

After a little fair at Ukiah, the herd moved down to the California state fair at Sacramento. Both grand champions were taken there, plus 12 blues by entries. \$35 first prize money was offered, and if the entry was bred by the exhibitor, the prize was boosted to \$43.75.

The last fair was the big one, down among the famed orange groves of Los Angeles county. The fair was held at Pomona, lasted 17 days, and drew as many as 100,000 people a day. Over a quarter million dollars went through the pari mutuel betting machine every day. The same record of winnings was made there, then the herd embarked for the long trip back to Hutchinson. Ralph is still trying to catch up on what happened in classes while he was gone, but he's not sorry.

Tom Weldon is a new graduate student in agronomy from Purdue. He is working with soils studies.

Bob Jaccard's Job Made Him a Globe Trotter

A dream job that has sent him the equivalent of 20 times around the world during the past three years has been the experience of Robert B. Jaccard, '37.

Flights to Australia, Hawaii, Argentina, four transcontinental plane trips, travel in all 48 states, Canada and Mexico have been on Mr. Jaccard's itinerary as field representative of the Cargill Grain Company, Minneapolis, Minn.

"It was luck and hard work that got me the job," the Kansas State College agronomy graduate declared, on a visit to Manhattan recently.

After a short breaking-in period beginning December, 1937, Mr. Jaccard has hardly been in the same hotel room two nights in succession. He recently figured he has traveled 514,000 miles over the globe, nearly half of that distance by plane.

"One of the fastest flights," Mr. Jaccard said, "was a recent hop to Australia. I was back in Minneapolis 11 days after throwing my clothes in a suitcase."

Jaccard is on the campus for Homecoming. He gave a talk and showed some moving pictures before a joint meeting of the Agricultural Economics and Tri-K clubs.

On the job, Mr. Jaccard seeks technical information from grain men and government officials that will be of interest to his firm. He will fly from Miami, Fla., November 14, arriving in Buenos Aires, Argentina, on November 16 for a quick look at grain crops there.

"It is fun and you meet a lot of interesting people," Jaccard admitted. "But I do get lonesome sometimes for people my own age."

Mr. Jaccard is single. He is the son of C. R. Jaccard, extension assistant professor of agricultural economics.

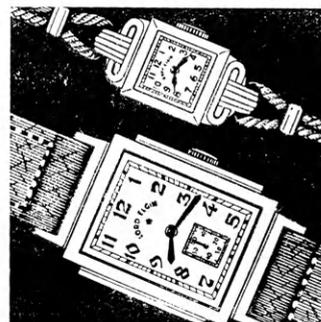
—*The Kansas Industrialist.*

Alvin Law, who received his master's degree in the Department of Agronomy here last spring, is working on his doctor of philosophy degree at Wisconsin University.

Glenn Klingman, who received his master's degree in agronomy here last spring, has accepted a position on the faculty at Nebraska University.

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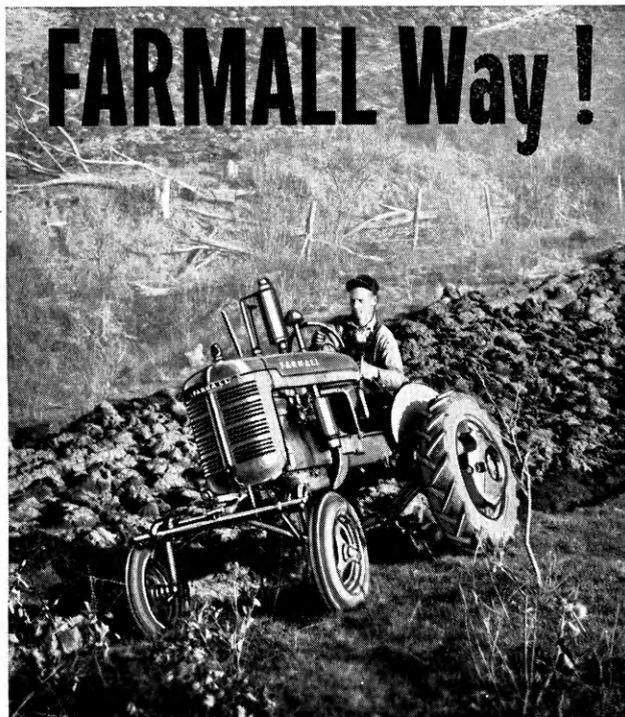
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