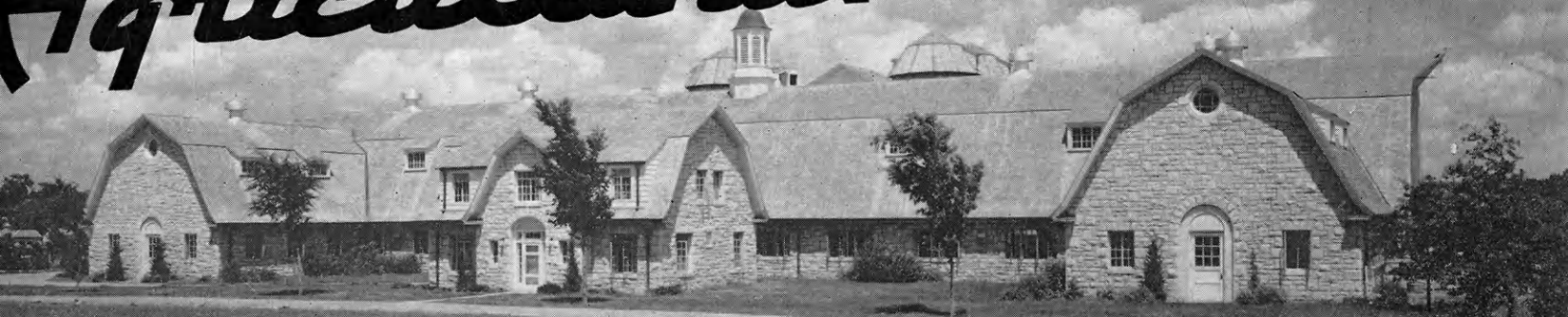


THE KANSAS

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COPY 1

Agricultural Student



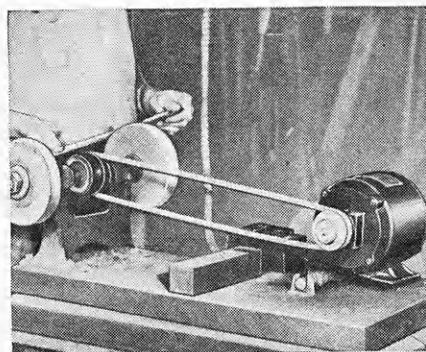
October, 1942 - March 1943

Know all the farm jobs an electric motor will do

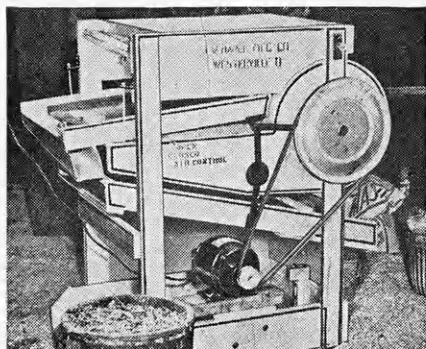
FARMS MUST PRODUCE more food. Farmers *must* get along with less help. That's the wartime situation you who are now in agricultural college should be able to help farms and farmers meet.

One good way to meet this situation is to apply an electric motor to as many jobs as possible. There are more than 35 farm jobs electric motors will do—eight of them are pictured on this page.

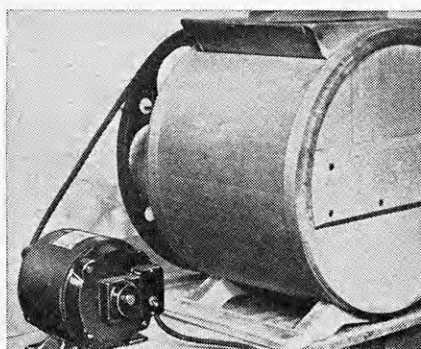
The first four jobs can be done by a small, fractional h. p. motor. The last four make use of a larger motor. Look at them. See how much work a motor can do on the farm.



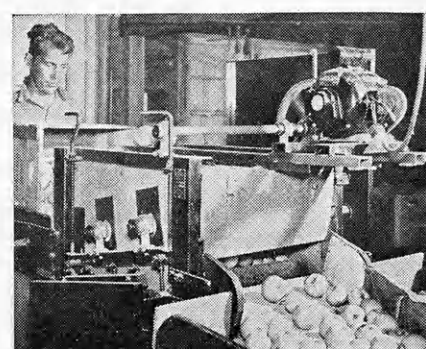
FARM SHOP EQUIPMENT. A farmer can apply a small motor to a drill press, then to a bench saw, then to an emery wheel. It speeds up repair work tremendously.



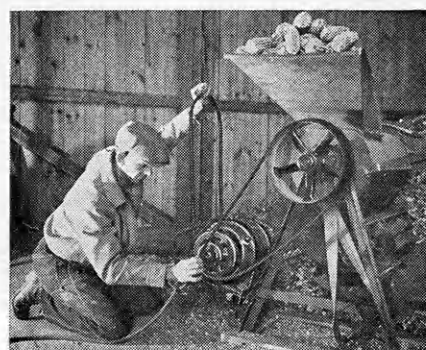
FANNING MILL. With the electric motor and its constant speed, you get cleaner and more uniform seed.



CHURN. An electric motor does the churning while the farmer gets other work done.



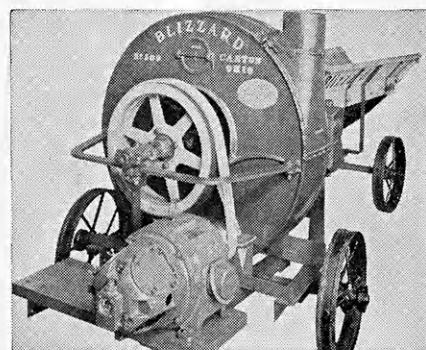
FRUIT GRADER. It takes very little time to apply a motor to one machine after the other.



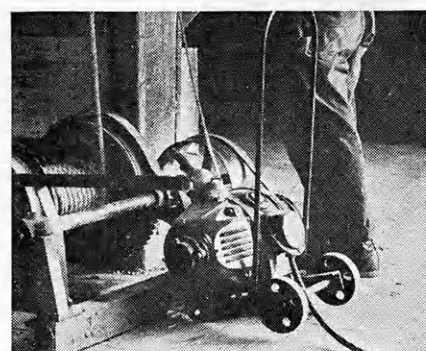
CORN SHELLER. With a 2 h. p. motor to help, a wagon load of corn can be shelled in an hour.



FEED GRINDER. No need for the farmer to drive to town to have his feed ground. A motor and feed grinder save time-wasting trips and money, too.



ENSILAGE CUTTER. With a 5 or 7½ h.p. motor, a silo can be filled using the ordinary help on the farm, at a cost of 1 kwh per ton.



HAY HOIST. Only *one* man and a motor are needed, to hoist hay.

LEARN HOW TO CHANGE MOTORS EASILY FROM JOB TO JOB

THE FREE BULLETIN, "Farm Motors," shows how to make *portable* both small and large motors. A portable motor can be applied to one job after another, in a few minutes. "Farm Motors" contains facts on motor types, motor controls, motor care. It also gives ways to use a motor in every branch of farming. This bulletin will make a helpful reference book for your courses—and an invaluable handbook you'll be able to use many times after you graduate. Send for it today. Address Rural Electrification,

Westinghouse Electric & Manufacturing Co., 305 4th Avenue, Pittsburgh, Pa.

Note: Farm Shop Equipment, Churn, and Fanning Mill can be run by Split Phase Motor, of ¼ or ½ h.p. Fruit Grader needs Capacitor or Repulsion-Induction Motor, ¼ to 1 h.p.

Corn Sheller uses 2 h.p. motor; Feed Grinder, 1½ to 5 h.p. motor; Ensilage Cutter, 5 or 7½ h.p. motor; Hay Hoist, 3 to 5 h.p. motor.



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Agricultural Student
KANSAS STATE COLLEGE
OF AGRICULTURE AND APPLIED SCIENCE
MANHATTAN, KANSAS

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THE COVER PICTURE.—The cover picture shows Amy Griswold, Chi Omega, receiving her crown and sceptre, symbols of her authority as Queen of the Ags, at the Barnwarmer from L. E. Call, Dean of the School of Agriculture. The four attending Princesses, (from left to right) are Mary Louise Monroe, Delta Delta Delta; Rosemary DeBruler, Van Zile Hall; Marjorie Davies, Clovia; Mary Eileen Downie, Pi Beta Phi. (Photograph by Paul L. Dittimore.)

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Beauty
Variety of
Settings

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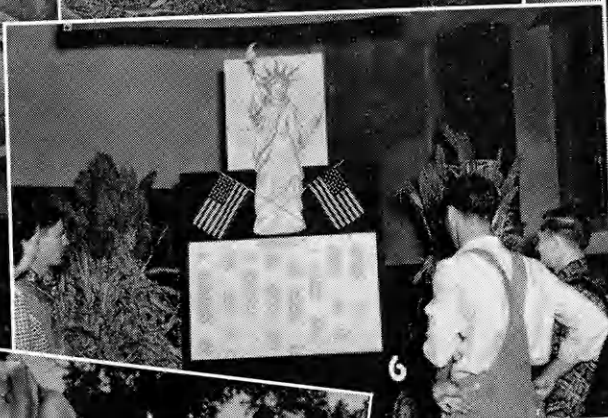
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Amy Griswold Wins "Queen of Ags" Barnwarmer Title

●Committee for annual week introduces many new innovations to make 1942 party different from those of past years.—No Ag-Vet battle this year.

By TOMMY BENTON

AMID the cheers and wild applause of 500 country-clad lads and lassies attending the 1942 Ag Barnwarmer, Amy Griswold, diminutive princess from Chi Omega sorority, was crowned Queen of Agriculture to climax the annual week of rural festivities. Following a fanfare of trumpets from Matt Betton and his boys, Amy and her attendants were wheeled into Nichols gymnasium riding sedately in a two-seated carriage of ancient vintage which was pulled by a small Shetland pony.

After a circuit of the dance floor in their stately carriage the royal group were delivered to the spotlighted throne just opposite the bandstand where Dean L. E. Call was waiting to crown the queen and congratulate her attendants. The attendants were Marjorie Davies, Clovia, Mary Eileen Downie, Pi Beta Phi, Mary Louise Monroe, Delta Delta Delta, and Rosemary DeBruler, Van Zile Hall.

NO AG-VET BATTLE

Unlike years gone by, there was little trouble experienced from the Vet students. Extensive preparations were made to give them a warm reception should they attempt to capture the princesses or their escorts, but it was all in vain. Either the Vets are at last becoming reconciled through the efforts of their school heads or else they have concluded that crime really doesn't pay anyway. However, there were a few that sought to enjoy the pleasure of dancing to Matt's music but they were soon apprehended and sent through the long line of Ag belt wielders.

The evening of dancing was interrupted at other times besides by the forming of the belt line. On one occasion was the presentation of Mrs. Gertrude Wheeler, popular secretary in the Ag office, with a bouquet of roses from the Agricultural Association in appreciation for being a sym-

pathetic listener to all their many troubles and handing out bits of well directed advice when necessary. She

WHO'S WHO IN THE PICTURES

All photographs on the opposite page were taken during Ag week, which closed with the Barnwarmer on Saturday evening, October 10. Prints of any of the pictures may be obtained for a nominal sum by leaving orders with Mrs. Gertrude Wheeler in E. Ag. 105. All photographs were taken by Paul L. Ditemore.

(1) This photograph shows the Barnwarmer princesses, milk pails and all, after the milking contest. The young ladies are, from left to right: Marjorie Davies, Clovia; Mary Eileen Downie, Pi Beta Phi; Rosemary DeBruler, Van Zile Hall; Amy Griswold, Chi Omega; and Mary Louise Monroe, Delta Delta Delta.

(2) John Blythe, allegedly of the School of Veterinary Medicine, gets a warm welcome from the agriculture students.

(3) Tommy Benton, 1942 Barnwarmer manager, and an old hand at milking, gives the girls a few instructions before their try at getting milk out of their cows and into the buckets.

(4) Betty Horton of Topeka, all dolled up in her Barnwarmin' outfit, emerging from the baled-hay runway that formed the entrance to the dance floor.

(5) During intermission at the Barnwarmer, Arthur Hibbs and Jack Muse, two enterprising millers with the aid of their dates, Doris Danielson and Jean Babcock, usurp the Queen's throne. They all seem to be enjoying their brief reign.

(6) Mr. and Mrs. Russell Borgmann, Norman Kruse and Ed Buss read the names of former Ags now with the armed forces. This panel was one of the features of the Barnwarmer.

(7) The Princesses show the Ags how adept they can be at picking chickens. Amy Griswold, shown in the center, won the contest.

(8) Marjorie Davies, winner of the milking contest, shown in action.

(9) Mary Louise Monroe doing her best for Delta Delta Delta.

(10) Marjorie Davies, winner of the milking contest, receiving the congratulations of Col. J. K. Campbell, official judge of the event, as Mary Eileen Downie looks on.

(11) An action shot of the pride of Chi Omega, Amy Griswold. (Yes, she actually extracted milk from the cow. See it?)

(12) An Ag student and his date reading letters from men in the armed services. These letters proved to be one of the centers of attraction at the Barnwarmer.

(13) The picture editor always will wonder just what Amy Griswold is telling her cow, which just walked away from Amy.

(14) The Royal coach bringing the Queen and the Princesses to the coronation throne at the Barnwarmer. The pony belongs to George Atkeson, son of Prof. F. W. Atkeson, head of Dairy Husbandry.

was given the honor of being the perennial queen of agriculture.

GYM A RUSTIC BARN

Nichols gym was decorated for the dance in its customary costume of leaves and corn shocks with an added touch of blue lights which left several shadowed corners which were provided with settees made from bales of hay, where weary dancers could sit one out now and then with their favorite partner.

Another unusual touch that was added to the decorations was a large flag-bedecked plaque bearing the names of all the boys who have left school in the last three years and are now in the armed forces. The attention of the dancers was called to this plaque during the evening and all stood silently in appreciation of these former students while Matt Betton and his boys played a medley of numbers for the various branches of the service.

An adequate supply of doughnuts and cider was available in the room off the balcony for all those desiring refreshments and needless to say, with the unusually warm weather prevailing, the room was well patronized all evening. However, the supply was sufficient to reward the clean-up boys who crept forth from their slumbers to work on Sunday morning.

GIRLS PROVE THEIR ABILITIES

It was the determination of the Ag students that the candidate for the coveted honor of Aggie Queen, be tested as to her knowledge of agricultural subjects and the agricultural way of life. This testing was begun at the candidates' first appearance before the boys in Ag Seminar. As the girls were introduced they were quizzed as to their knowledge of types of machinery, kinds of animals and variety of fowl found around the general farm yard. The girls passed this test to the satisfaction of the group as a whole.

After the five princesses were selected, however, they were subjected to more rigid tests. First they had to exhibit their ability to replace the boys while they are away at war and so a milking contest was staged which a large part of the entire student body gathered to witness. It is doubtful whether a very large milk route could be maintained from their efforts, for their final accomplishments varied

(Concluded on page 5)

Ballard Bennett to New Job in Oklahoma City

● *Young dairy farm herdsman here will manage one of midwest's leading Guernsey establishments.*

By JOHN AIKEN

AT five o'clock practically any morning during the past four years, Ballard Bennett could have been found in the dairy barn starting his day with feeding the "bossies" their grain and silage. Perhaps the fact that Ballard was always on the job is one of the big reasons why he is now the manager of the farm where he received much of his early experience in the management of dairy cattle.

Ballard has recently accepted the position of manager of the Meadow Lodge Farms at Oklahoma City, Oklahoma. Besides looking after one of the finest Guernsey herds in the nation composed of over 200 head, Bennett also supervises an excellent laying flock of Leghorn hens, a top herd of Hampshire hogs, and manages the farming operations of the 11,000-acre farm.

Bennett is now back on "old stomping grounds" as he originally came from near Oklahoma City. He is a graduate of Oklahoma A. and M. where he majored in dairy husbandry. During his four years of school, Ballard worked for the dairy department and during summers he worked for prominent Guernsey breeders, usually taking their show cattle out on the show circuit. One summer he worked for the oldest Guernsey breeder in Oklahoma, Mort Wood; and he stayed three summers at the Meadow Lodge Farms where he is now located. During school he often went to the Meadow Lodge Farms to work during week ends. Ballard took an active part in school activities. He was on the dairy judging team in 1937 and ranked among the high individuals in the national contest and he was a member of the Alpha Zeta and Farm-House fraternities.

STUDENTS APPRECIATE HIS HELP

After graduation, Ballard was assistant to the manager, Meadow Lodge Farms, for one year before accepting the position of herdsman of the dairy herd at Kansas State. Here, his ex-

perience in showing cattle and with dairy herds in general, stood him in good stead. He was interested in college students, particularly the dairy students, and was always willing and ready to help with the fitting and showing of the cattle for the Little American Royal. While here he learned the technique of artificial insemination, and aided materially in developing the artificial insemination program which is now in use in the herd. Kansas State has one of the few herds in the country in which this type of breeding is used exclusively. Due to his college training and experience, Bennett has been able to cooperate effectively in research work.

He was always neat in appearance, dependable, did his work in a thorough and effective manner and he expected those who worked for him to follow his example. To some he may have seemed too insistent in this detail, but most of those with whom he worked have recognized upon graduation the sound logic of his reasoning and respect him for it.

Originally an Oklahoman, Ballard was a loyal Kansan and was interested in the fairs and other activities here. He judged several county shows and has made many friends doing so. Though his background makes him a Guernsey enthusiast he has taken an equal interest in all of the four breeds represented in the College herd. His prestige in the Guernsey world is shown by the fact that for the past two years he has served as secretary of the Kansas Guernsey Breeders Association. The directors of this organization and several of the leading Guernsey breeders held a testimonial dinner and presented Ballard with a departing gift in recognition of his services to the association.

Prof. F. W. Atkeson, head of the Department of Dairy Husbandry, spoke thus of Bennett:

"When his practical experience, college training, general industry, and interest in work are considered, he is

one of the best college herdsman in the country and his loss is distinctly felt. In spite of the loss to this institution, all his friends are pleased to see his ability recognized in his promotion to manager of the Meadow Lodge Farms in Oklahoma City, one of the largest Guernsey breeding establishments in the middle west. Not only will he have opportunity to demonstrate his ability in managing the farm and the dairy herd, but he also has doubled his salary."



Boys Meet Girls

If any Ag freshman this year was unable to find a date for the annual Barnwarmer, it was solely his own fault.

Members of the ticket sales committees of former Barnwarmers observed that comparatively few freshmen Ags bought tickets, giving the excuse that they "didn't know any girls here to take to the dance." So this year a get-acquainted mixer was arranged for between freshmen women in the School of Home Economics and Ag freshmen. The party was held in Recreation center a week before Barnwarmer and several upper-classmen from both Schools were there to assist in directing the mixer. The young men and women enjoyed making new acquaintances so much that plans have been made to make this "boy-meets-girl" affair an annual event.—Marvin Clark.

George Wreath, senior in animal husbandry last year was awarded the Merit Trophy for being the outstanding member of Block and Bridle for the past four years. His record has now been submitted for the outstanding member of the nation. Wreath now is enrolled in the School of Veterinary Medicine. The list of his honors and awards is as long as the list of World War I heroes.

Argentinian Here to Study Set-Up of Experiments

● *Dr. Antonio Arena finds much of interest to him here. Argentina intends to establish experiment stations in all provinces.*

Not a Latin from Manhattan, but Dr. Antonio Arena from Argentina was a recent visitor of the Department of Agronomy. Looking more like a South American version of Clark Gable than a research worker, immaculate, energetic Antonio Arena found much to interest him at Kansas State.

Although the Agricultural Experiment Station set-up occupied most of his time while here, Dr. Arena found time to slip his camera from its holder and make a record of some of the student activities on the campus. Especially delightful to Dr. Arena were K-State Co-eds, milking cows to prove they were worthy of reigning as Barnwarmer Princesses.

Flying to the United States from Mexico, where he was a delegate at the Pan-American Agricultural Conference, Dr. Arena has been making an extensive study of the organization and functions of the United States Department of Agriculture and the state Agricultural Experiment Stations.

"Dry land farming in Argentina is very similar to conditions as they exist in Western Kansas," Dr. Arena told Dr. H. E. Myers, professor in the Department of Agronomy, "and that's why I especially wanted to study the Experiment Station at Hays."

Addressing an Agronomy Seminar Dr. Arena explained why he was in the United States. "We are hoping," he said, "to establish an experiment station in each province of Argentina and we now have a bill before our Legislature setting up an Experiment Station Act similar to yours here in the United States."

Not a stranger to travel in foreign countries, Dr. Arena has spent two years studying under some of the leading soils men in England, France, and Russia. Cosmopolitanism runs in the family as Dr. Arena's eight year old daughter is pursuing a course in En-

glish with the rest of her school work.

"He is now Chief of the Division of Soils in the Ministry of Agriculture of the Republic of Argentina," states Dr. Myers, "and I think he has an opportunity of becoming one of the outstanding soils research men in the world."—Don Wood.

Got Any Horses to Break?

Training horses to ride for a horse trader was how Tom Stockebrand, senior agriculture student from Yates Center, Kansas, spent part of his summer.

"I broke fifteen horses during the summer and was only bucked off once," Tom admitted. "I broke some three-gaited, some five-gaited, and some western broncs during Sundays, holidays, and rainy days," he said.

Some of the horses were pretty tough and hard to train requiring the use of a "W", he explained.

"I used a bridle with a limber bit and a standard stock saddle then turned them loose in a 160-acre hay meadow and let them go and hoped for the best," Tom remarked.

"I broke one western bronc that jumped over the top of an eight foot stock rack while being loaded in a truck, and another gave me a fast ride through a barbed-wire fence," he concluded.—Wayne Coltrain.

BARNWARMER STORY

(Concluded from page 3)

from one-tenth of a pound to 3 pounds after a 5-minute tussle with the cows. Marjorie Davies was the winner with Amy Griswold a close second.

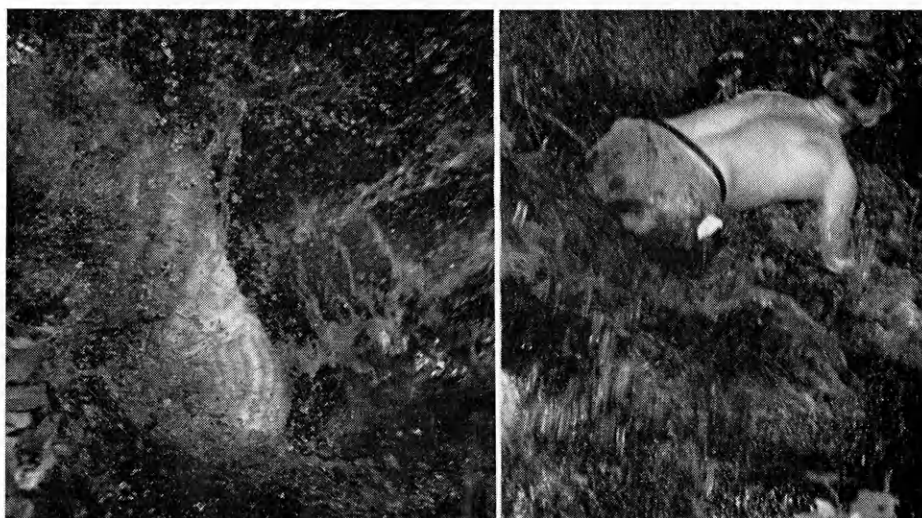
Then to give the girls a further chance to prove their worthiness to be Aggie princesses, a chicken-picking contest was held. Here the girls were more in their own field and proceeded rapidly to "undress" the chickens in first-class style. This time Amy came out the winner.

Even though the girls couldn't all be winners in the preliminary contests or in the final choice as Queen, they all were a swell bunch of sports and the Ag students are proud of them.

Due to priorities it was impossible to get a tank in which to duck uncooperative Ag students but they were not deprived of their "bath" for not wearing their overalls, for Mother Nature saw fit to provide adequate rainfall so that the creek that meanders along the east side of the Ag building made an excellent place to dunk the boys.

Ag week is over and this may be regretted, but all in all it was a success and this may be attributed to the swell cooperation of the various committees in charge and to the fine way the agriculture student body as a whole supported this annual affair.

These Ags Got the Ole' Heave-Ho



—Photos by Paul L. Dittmore.

College creek, not a stock tank, was the dipping vat for Ag students who didn't wear overalls during Ag week. The photographs above show two victims of the vigilante committee. On the left is Russell Borgmann, pretty shorts and all, just as he went under for the first time. On the right is Arthur King, another recipient of the baptismal rite.



Grades May Not Be Everything But They're a Whale of a Lot

● A few "smarties" make straight "A" averages to head the 1941-1942 Honor Roll, which includes names of 201 Ag students.

By JACK CORNWELL

It is well agreed that scholarship is not everything, however; good grades are very desirable and should be sought by all.

The scholarship record of each College student is kept in a permanent record on the Dean's books, and it is to these records that inquiries are referred in regard to one's securing a job or becoming a member of an honor society.

The students whose names are listed below knew most of the whys and wherefores of the anticipated questions of their professors.

SENIOR HIGH HONORS

George C. Wreath	2.78
Raymond R. Rokey	2.70
Leonard A. Deets	2.63
Russell C. Klotz	2.56
Warren B. Nelson	2.56
Acton R. Brown	2.50
Robert R. Singleton	2.50
Darrell A. Bozarth	2.47
Murray L. Kinman	2.44
Joseph W. Mudge	2.43
Oscar W. Norby	2.42
Keith G. Fish	2.41

Richard G. Wellman	2.32
Max L. Dawdy	2.32
Francis R. Wempe	2.31
Walter H. Porter	2.29
Scott W. Kelsey	2.27
Ray A. Keen	2.27
Dale E. Brown	2.25
Ethan Potter	2.23
Ralph J. Kueker	2.18
Freeman E. Biery	2.18
Robert O. Yungmans	2.17
Calvin A. Doile	2.17
Conrad O. Jackson	2.17
Frank L. Marcy	2.13
Donald K. Dubois	2.13
Arthur L. Francis	2.12
Bertil C. Danielson	2.12
Ernest L. Semersky	2.11
Frank W. Wichser	2.09
Maynard L. Abrahams	2.07
George A. Mullen	2.06
George N. Inskeep	2.03
Ralph E. Barker	2.00

JUNIOR HIGH HONORS

Warren Schlaegel	2.88
Lowell H. Penny	2.76
George W. Curtis	2.67
Bruce Robertson	2.57
Jack Cornwell	2.57
Glenn P. Schulthess	2.56
Roger G. Murphy	2.53
Paul L. Kelley	2.50
Leonard R. Ottman	2.49

Paul Q. Chronister	2.38
Harold A. Snyder	2.29
Gordon E. Hoath	2.27
Donald R. Wood	2.26
La Verne Harold	2.24
Keith G. Jones	2.19
Everett E. Janne	2.18
Edward G. Buss	2.15
Carl B. Overley	2.12
Oid L. Wineland	2.09
John W. Kraus	2.08
Joseph E. Jagger	2.06
Daniel Durniak	2.06
Malvin G. Johnson	2.03
Leo W. Peterman	2.00

SOPHOMORE HIGH HONORS

Marlo B. Dirks	3.00
Dale A. Knight	3.00
Walter H. Smith	2.97
Chester B. Wood	2.88
Harold L. Hackerott	2.81
Harold M. Riley	2.73
Marion E. Postlethwaite	2.68
Roy D. Gear	2.62
Robert C. Pickett	2.62
Ned W. Rokey	2.56
Fredrick Palmer	2.46
Melvin Stiefel	2.44
William D. Hadley	2.44
Clair K. Parcel	2.40
Cecil R. Siebert	2.40
Ronald G. Billings	2.32
John M. Aiken	2.29
Robert J. Flipse	2.28
William M. Phillips	2.22
Arthur N. Hibbs	2.19
Harvey J. Snapp	2.19
Wallace R. Anderson	2.17
Howard J. Johnstone	2.12
Charles A. Worthington	2.11
Robert W. Brass	2.10
Chase C. Wilson	2.10

FRESHMAN HIGH HONORS

John E. Hirlman	2.97
Charles F. Hall	2.85
Donald E. Riffel	2.79
Bryce C. Russel	2.76
Charles W. Herrick	2.73
Howard Furumoto	2.58
Floyd E. Rolf	2.57
James P. Wood	2.48
Austin C. Wright	2.42
Russell K. Ehrlich	2.41
Kenneth Chapman	2.40
Michael S. Newborg	2.34
Samuel E. Claar	2.30
Merle H. Brehm	2.25
Harry W. Mudge Jr.	2.18
Jacob E. Mosier	2.15
Donald L. Flentie	2.15
Howard W. Borchardt	2.13
Marvin A. Jensen	2.11
Howard Spencer	2.06
Richard W. Holmes	2.04
Jack M. Muse	2.00
Charles W. Glenn	2.00

SENIOR HONORS

Robert Arbuthnot	37:72
Willard M. Barry	34:62
Floyd Bjurstrom	33:53
Gilbert Branda	32:58
Kendrick C. Brown	34:57
James F. Cavanaugh	33:59
Harold H. Dunlap	29:50
Richard L. Evans	33:65
Jack B. Fields	37:61
James R. Foster	31:51
George H. Fritz	35:52
Vernon V. Geissler	33:55
Carl R. Gray	32:54
Norman J. Griffith	32:61
William D. Guy	32:62

Engineers Build Model to Study Floods on Cottonwood

A flood control model is under construction west of Waters Hall on the campus. It is a miniature duplication, 250 feet long and 25 feet wide, of the Cottonwood river basin extending from a few miles below Emporia for a distance of more than 50 miles along the river channel.

The project is being sponsored by the Division of Water Resources of the State Board of Agriculture under the direction of L. E. Conrad, head of the Department of Civil Engineering. Careful preparation requiring a month of laboratory work making cross sections of the stream was necessary in order to reproduce the identical water-flow conditions found in the Cottonwood river valley.

Several types of cutoffs are being devised in this model to straighten out the stream and thus allow the water to escape more freely and prevent overflowing. The serious problem of flood control in the Cottonwood valley which has caused so much damage to agriculture in the past is expected to be solved by studies of flood control on this project. This project is expected to save the state large sums of money by determining what methods can be used most effectively in a flood control plan before actual work on a flood control system is begun, said J. F. Eppler, who is making this project the subject of his master's thesis.—Harold Hackerott.

Ernest O. Harris	33:53
Myron F. Hornbaker	31:53
Carlton M. Kinzler	34:50
Theodore W. Levin	34:56
Harold R. Melia	34:53
Edward Morrison Jr.	33:50
Wilburt S. Nixon	35:48
Robert L. Osborne	33:64
Harold E. Peterson	34:58
Roger N. Phillips	35:61
Norbert L. Raemer	34:58
Joseph S. Rogers	33:61
James J. Smith	34:65
Robert C. Stephens	28:48
Delbert G. Taylor	33:58
Dick W. Turner	30:50
Robert E. Wagner	33:55
William J. Werts	33:55
Paul H. Wilkins	33:53

JUNIOR HONORS

Charles T. Brackney	32:57½
Harry G. Duckers	35:67
Elton Endacott	33:64
Philip W. George	34:53
William E. Hartman	30:55
Edwin A. Kline	36:62
Glenn A. Koby	32:62
Norman L. Kruse	34:53
Dale F. McCune	34:58
Leo Miller	39:65
Walter A. Moore	30:50
Edward G. Seufert	34:51
Dalbert O. Smith	34:62
Victor C. Thompson	29:53
Delbert L. Townsend	31:54
James A. Upham	33:60
Robert L. Wallace	33:50
John R. Weir	34:67
Bernard C. Weller	32:61
Norman J. Whitehair	33:65

SOPHOMORE HONORS

Morris E. Buckman	32:50
Raymond S. Clark	33:53
Rufus Davis	32:56
Jackson G. Dunbar	32:52
Cecil L. Eyestone	32:62
Don F. Irwin	32:62
John J. McLinden	32:48
Paul A. Mellott	33:48
Carol C. Montgomery	32:56
John H. Nelson	30:48
Eldon M. Reichart	32:53
Paul Schroeder	34:52
James H. Shaver	32:57
Carl L. Sperry	32:52
Howard Teagarden	33:52
William K. Wieland	31:51

FRESHMAN HONORS

Raymond D. Allen	34:56
Robert T. Babson	29:49
Chester E. Bebermeyer	33:49
Albert W. Blythe	33:48
John C. Boller	33:51
Darrell R. Bolliger	32:54
Kenneth D. Bull	33:51
Kenneth Burchman	35:49
Melvin Burkhead	33:58
Embert H. Coles	30:52
Clinton J. Davies	32½:57
Ralph L. Dodd	33:57
George H. Dutton	31:49
Thorán D. Gatterman	33:62
Dale R. Hamilton	30:50
Harold J. Heller	33:54
Dean W. Jamison	33:58
Arthur R. King	33:55
Harold H. Kling	30:52
Richard G. Kloss	33:63
Darrell H. Smith	33:56
Lyle D. Snider	33½:48½
George H. Stephens	33:62

Musician Turns Miller

Rosy-cheeked Gene (Porky) Fullen, who plays bass fiddle or "beating the dog-house" with Matt Betton's band, plans on becoming a milling technologist. "I decided to take up milling after doing odd jobs at a Salina flour mill and by asking some questions found out that milling was a good job," Gene stated when asked why a talented musician should take up milling instead of music at college.

Gene started early on a musical career and was playing with a four-piece band on the radio when he was 13 years old. Now besides playing the bass fiddle with Matt Betton, he is a featured singer, famous on the Kansas State campus for his rendition of "Knock Me a Kiss."

Song writing is one of Gene's hobbies and he is often called on to entertain with his original compositions. He is social chairman and song leader of the Pi Kappa Alpha fraternity.

—Bernard Weller.

W. H. Pine, assistant professor of agricultural economics, grad of '34 pulled his blue denim jacket, with the letters AG FAIR 1932 on the back, out of the moth balls for Barn-warmer week.

Useful Statistics

Figures—figures yes, hundreds—thousands of them, that is how the boys who work in the Agricultural Economics department earn their bread and butter.

They are literally wrapped up in figures. To the ordinary person it would seem a waste of time and money to pay students to copy, add, multiply and divide scores on scores of figures.

Perhaps you've never stopped to think of the good that comes to the Kansas farmer out of those stacks of statistics. To name a few "The Trend of the Markets", a weekly radio presentation over station KSAC is worked up, using statistics to indicate future prices, "The Market Outlook," a monthly periodical covering longer trends of the market, farm organization studies, management practices, market reports and many other valuable aids to the farmer, is the outcome of many hours of work on the part of students and members on the staff in agricultural economics.

If you are from a home where farm association records are kept, they too are analyzed in that room in West Ag, top floor, marked "Statistical Laboratory" on the door.

—Keith Fish.

Chapman Wins Alpha Mu Scholarship Medal



—Cut Courtesy Northwestern Miller.
—Photo by Paul L. Dittmore.

Kenneth Chapman of Abilene, with a point average of 2.4 was high in scholarship among the freshman millers last year, and was awarded the Alpha Mu scholarship medal at the milling industry fraternity's annual smoker recently. The picture above shows Chapman receiving the medal from Warren Schlaegel, Olathe, president of the organization, while Dr. E. G. Bayfield, head of the department, looks on approvingly.

Success in 4-H Club Work Puts Him in College

● *Merle Eyestone, a freshman, wins Club's "Leader of Merit" Award for outstanding ability.*

Another Aggie has been brought to Kansas State through the activities of the 4-H Club. Merle Eyestone, 19-year-old Leavenworth County boy, who was awarded the Capper's Scholarship for 1941 in recognition of his outstanding club work, is now enrolled as a freshman in Agriculture.

The winning of the title "Leader of Merit" is given each year to one boy and one girl chosen from all 4-H youths of Kansas in recognition of their work in Junior Leadership and is an award highly valued.

In achieving this award, Merle has left behind him in his eight years of club work a number of accomplishments. Part of them were: president of county council and his own club, dairy champion, county potato champion for three years, member of seven judging teams and a member of his club's play cast for five years. In 1941 he was junior leadership and best-groomed boy champion. He was mayor of the annual Tri-County 4-H

Camp held at Tonganoxie. He has attended two state encampments at Hutchinson and was a Santa Fe Trip Winner to the National 4-H Club Congress at Chicago in 1941.

All of these awards haven't come easily. They have taken many days and hours of hard work and planning, Merle says.

Although Merle comes from a small farm in eastern Kansas, he is interested in livestock. He has a small herd of purebred Jerseys of which he hopes to build into a profitable enterprise. Here as a freshman "Ag", he hopes to learn many things which will benefit him in his work.

Merle, like all boys, has a couple of hobbies, one of which is tinkering with radios and old cars. His latest is a remodeled Ford of Model T vintage which may be seen about the campus. His other hobby is a collection of Indian relics.

—George Spelvin.



Jim Leker Guards Lives of Kansas City's Elite at Exclusive Club

Jim Leker, A. H. major and letterman on the swimming team, spent the summer in an enviable job. He was one of the life guards at the Kansas City Country Club's swimming pool. The lucky few who have memberships in this club pay \$1,200 a year for the privilege. Besides a beautiful all-tile pool, the club boasts an 80-horse stable and a polo field as well as an 18 hole grass-green golf course.

Jim says that the membership is extremely exclusive. The pool manager, Ben Allen, is a veteran of 30 years experience at swimming pools, and in the winter he operates the swanky Surf Club at Miami Beach, where celebrities gather for the winter months.

Two of the clubmembers' shapely daughters voluntarily served as stenographers for the guards while they were on duty. Jim added that all of his correspondence was promptly answered.

"The wealthy people are quite human," Jim philosophizes, "Once, Herman, the pool's cat mascot, unfortunately suffered a broken leg, and was attended by an eminent Kansas City bone specialist. For days the older men, brokers, bankers and lawyers, gathered around, smoking pipes and inhaling a little beer, taking care of old Herman around the pool."

Jim prizes his experience for the contacts he made, and the influential people he met.—*Bill Ransopher.*

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Those Turkey Pelts Aren't for Decorative Purposes

● *Results of many years of study in inheritance of color in turkeys are being summarized by Warren, Bobren.*

By EDWARD BUSS

THOSE turkey pelts hanging on the walls of the second floor in West Ag are making history. They are being used to complete the first thorough genetic studies of color in turkeys. These pelts were collected between 1917 and 1927 by Dr. R. B. Robertson, a cytologist and geneticist. Dr. Robertson was a native of Kansas. He began his work at Kansas University and later worked at Missouri University, Kansas State College and from 1930 until his death in 1941, he worked at Iowa University.

Farmers have always known that Bronze turkeys crossed with White turkeys produced all Bronze poults. Perhaps that explains why our Bronze turkeys are similar to the wild turkeys which the Pilgrims found when they came to America. But why is Bronze dominant? That is the question Dr. Robertson tried to answer. He used 4,800 poults in an attempt to determine how different plumage colors of turkeys were inherited. Three thousand of the poults were skinned and the pelts saved. A few of these 3,000 are those which you have seen, smelled, and possibly even had a little to say about from time to time.

Dr. Robertson had collected much data and material during the eleven years. But he was never able to summarize it and draw any conclusions. So the data and materials were stored until two months ago. Then one large truck load of the data and pelts was collected and sent to the Department of Poultry Husbandry at Kansas State College because of previous work in poultry genetics. The task of rechecking and interpreting the accumulated data fell to Dr. B. B. Bohren with the cooperation of Dr. D. C. Warren to whom the material had been sent.

In order to be able to understand Dr. Robertson's work, it was neces-

sary to learn what some of the pelts looked like. But where could he put them? There wasn't a room in West Ag large enough. There was one more place and that was in the halls, as you now know. And even at that only a very small portion was out at any one time.

It has been a real task to interpret the data of another person, especially where it was obtained so long ago. Today they have completed a summary of the data and have it ready for the press. Six breeds—Black, Bronze, Red, Narragansett, Slate and White—were used in this study. The results are conclusive. They found that Bronze (or wild) was the natural color and is dominant to Red. Black, however, is dominant to both Bronze and Red. Any of these colors were found to be dominant to White. A new breed—Buff, which breeds true—was produced.

With the aid of the turkey pelts so carefully prepared by Dr. Robertson, Dr. Bohren has been able to get into print the first comprehensive work on inheritance of plumage color in turkeys. This work is the basis from which much other can be started. Perhaps we didn't appreciate the pelts but I'm sure they were there for an important purpose. Better turkeys are assured for your Thanksgiving and Christmas dinners in the future.



Lucky students were Don Riffel, Keith Jones and Roger Murphy who received fellowships to the American Youth Foundation camp held at Camp Miniwanca, Mich., during the past summer. Unlucky was Murphy, however, because he was unable to attend.



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War Causes Many Faculty Changes

● *Mackintosh, Doll, Cathcart, among teachers now with our armed forces.*

Faculty members of the School of Agriculture, as well as the students, are answering the call of the armed forces and consequently have scattered to many distant points over the United States. Therefore the number of faculty members of some departments has been reduced considerably. The records also show several changes, other than those prompted by military service.

D. L. Mackintosh, associate professor of meats of the Animal Husbandry department, has been commissioned a captain in the Army and is now Food and Nutrition officer at Ft. Bliss, Texas. Edwin Kline, who graduated last year, has been appointed as temporary instructor, replacing Captain Mackintosh.

Raymond J. Doll, assistant professor of Agricultural Economics, is now a Second Lieutenant and is an instructor in the Army Air Corps. Lieutenant Doll was first located at Miami, Fla., and has since been transferred to San Angelo, Texas.

R. B. Cathcart, assistant professor in the Department of Animal Husbandry, is now attending Officers Training School for Cavalry officers at Ft. Riley. He is replaced by Russell Klotz, recently appointed as temporary instructor.

John H. McCoy and Henry J. Meenen, formerly instructors in the Agricultural Economics department, are now taking flight training at the

Manhattan airport. They have completed the primary flight training and were chosen by the Army for secondary training.

Russell Nelson, who last year was an instructor in the Dairy Department, is now Milk Sanitarian for the State Board of Health.

A new position, of Assistant in Milling Industry, opened recently by the Milling Department, is being filled by Emery C. Swanson, who last year was a graduate assistant on the American Dry Milk Institute Fellowship.

Two faculty members returned from one-year leaves of absence, are helping to make up for losses to the armed service. Franklin L. Parsons, associate professor of Agricultural Economics, is back from a year's study at the University of Chicago, and G. H. Beck, assistant professor of Dairy Husbandry, has returned from studying at Cornell University.

Clarence Gish, formerly superintendent of the poultry farm, has resigned and is now Supervisor of Poultry and Egg Grading, with the State Board of Agriculture. Wilbert Greer, who graduated here in 1941, was appointed to succeed Gish.

The School of Agriculture regrets the absence of Dr. W. H. Metzger, who was a professor of soils in the Department of Agronomy and who died July 7, 1942, after a long illness.

—Harold Snyder.



*"Look your best---
it pays!"*

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CAMPUS CLEANERS

Our Nu-Sheen

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garments look like
new.

CAMPUS WASH SHOP

Let us do your
bachelor bundles.



Barnwarmers

Shown in this picture is the 1942 Barnwarmer committee. These men did a grand job of putting on a good party. They are Tommy Benton, Dean Mullen, Don Irwin, Harold Snyder, Norman Kruse, Jack Cornwell, Ralph Beach, Ronnie Campbell, Merlin Line, Paul Kelley, Herman Brinkman, Cecil Eye-stone, John Aiken, Ed Buss, Keith Jones and Floyd Rolf.

—Photo by Paul L. Dittmore.

Farm Boy to Carpenter

There were crap games, poker games and what-have-you at the Fort this summer, but not for Gale Breed who netted over \$175 after summer school by working as a carpenter's helper. On August 29 Gale joined the large group of carpenters and carpenter's apprentices at Camp Funston, as did many other Kansas State students.

The first thing required of him was to "join up" with Wm. Green and Company, sometimes called the Carpenter's Union. Upon joining he was photographed, fingerprinted, and finally given a pass to enable him to go in and out of the Fort.

The work was something new and different for him as it was for a lot of the men. Most of them had converted themselves into the new occupation over night. Each person was assigned directly to some foreman. At this time there were nearly one hundred foremen on the job.

The carpenter's language and vocabulary had to be learned quickly. Each carpenter had his pet names of certain tools and jobs.

—Lawrence Chain.

A Picture Contest For Ag Students

You men who are camera fans, or Ags enrolled in photography will have a chance to win a prize with your best picture.

The Agricultural Student is offering a prize of \$3 for the best picture submitted for use in the magazine.

Flowers for a Lady



—Photo by Paul L. Dittemore.

Mrs. Gertrude Wheeler, described by Tommy Benton, Barnwarmer manager, as "the permanent Queen of the Ags," receives a bouquet of roses from Benton as a token of the students' esteem of her. The presentation was a surprise on Mrs. Wheeler, and as the picture was taken she was trying to think of something to say, she confessed later to the photographer.

Judges of the pictures will be Floyd J. Hanna, College Photographer, Prof. R. R. Lashbrook, news photography expert in the Journalism Department, and Paul L. Dittemore, Advisory Editor and Photographer for The Agricultural Student. The pictures must be in by December 1.

The only rules of the contest are that the picture must have been taken by a student in the School of Agriculture, and that the negative of the picture is available. You may enter either contact prints or enlargements. Leave them with Professor Dittemore in E. Ag. 105.—Marvin Clark, Picture Editor.

War Stories

Harold Jaeger, Ag. '41, tells George Inskeep a few of his experiences as a pilot in the air force of the U. S. Marine Corps. For the past five months Jaeger has been flying transport planes hither and yon, and some of his better stories concerned his experiences at the ritzy night clubs in New York City.

—Photo by Paul L. Dittemore.



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Missing in Action



ENS. R. A. JACCARD

Had Been Cited for D. S. C.

Ens. R. A. Jaccard, f. s. '40, has been reported "missing in action" according to a message from the Navy department received recently by his parents, Prof. and Mrs. C. R. Jaccard of Manhattan.

After scoring hits on a Japanese carrier during the Battle of Midway several months ago, Jaccard was cited for the Distinguished Service Cross. He received his wings at Miami, Fla., in September, 1941, and has been piloting a dive bomber since that time.

Jaccard attended Kansas State College in the School of Agriculture, leaving in the spring, 1940, to enlist in the Navy. He was a member of Delta Tau Delta fraternity.

His father is assistant professor of agricultural economics on the College Extension staff.

Inskeep Bats for Murphy

Roger Murphy was elected editor of this magazine at the Agricultural Association election last spring. This fall, Murphy's presence in College was as unpredictable as Kansas weather. He did the "in-again-out-again-Finnegan" act at the request of the Norton County Selective Service Board. Finally Murphy was inducted.

But the medicos at the reception center in Leavenworth decided that

Murphy wasn't physically fit to be a member of the army, so Murphy is in school again.

The magazine's advisory editor appointed an editorial board to take charge of the magazine after it appeared that Murphy wouldn't be with us. George Inskeep's name appears at the top of the staff listings as editor-in-chief. George has been more than "editor in name only". . . he did a lot of work on this issue of the magazine and the writer believes that you students will like his magazine.

Now that Roger is back in school, he is going to take over his job as editor, beginning with the December issue. Murphy has had some experience, having been Bob Wagner's assistant through four issues during the last school year, and we are expecting his magazines to be as interesting as Wagner's were, and as interesting as this issue, whipped up by Inskeep.

The editors, however, can't do the job alone. They need the cooperation of the students in the School of Agriculture. It's your magazine. So if Murphy or one of his associate editors asks you for a story for the magazine, do your part for your magazine. Even better, don't wait to be asked. If you know of an interesting story about what some fellow student has done, or made, or seen, write it for your Agricultural Student.—Paul L. Dittmore.

No More Hayrack Rides For Missouri Ags

There'll be no more of this hayrack riding in the moonlight during Ag Barnwarmer week at the University of Missouri.

University authorities recently made it plain to the Ags that none of the applications now pending for co-educational hay rides will be granted, nor will future applications for permission be considered.

"Farmers with hay wagons for hire are irate—but chaperons are breathing sighs of relief," according to the newspaper story telling of the ban on that form of entertainment. "There has been no official explanation of the ban, but, quite unofficially, and in common knowledge, it is said chaperons found a recent rustic rendezvous quite wearing."

Harry Duckers, Bill Hadley Win B & B Judging Contest

Block and Bridle medals were awarded to Harry Duckers and Bill Hadley for winning the Senior and Junior divisions, respectively, in the Annual Block and Bridle judging contest held May 6 at the Kansas State College Livestock Pavilion.

One hundred and six students competed for prizes which consisted of medals, show halters, books, ribbons, magazine subscriptions, and neckties.

First place in cattle judging in the Junior division went to Walter Smith. Bill Hadley received the most points in horse judging, Howard Spencer was tops in the swine class, and Linton Lull knew more nearly what was desired in the sheep division than other contestants.

In the Senior division Harry Duckers was tops in the Sheep and Cattle departments while Jack Cornwell placed first in Swine and Horse judging.

This was the 40th consecutive year which this contest has been held.

—Jack Cornwell.

Dairy Cattle Judges Win Third at Waterloo

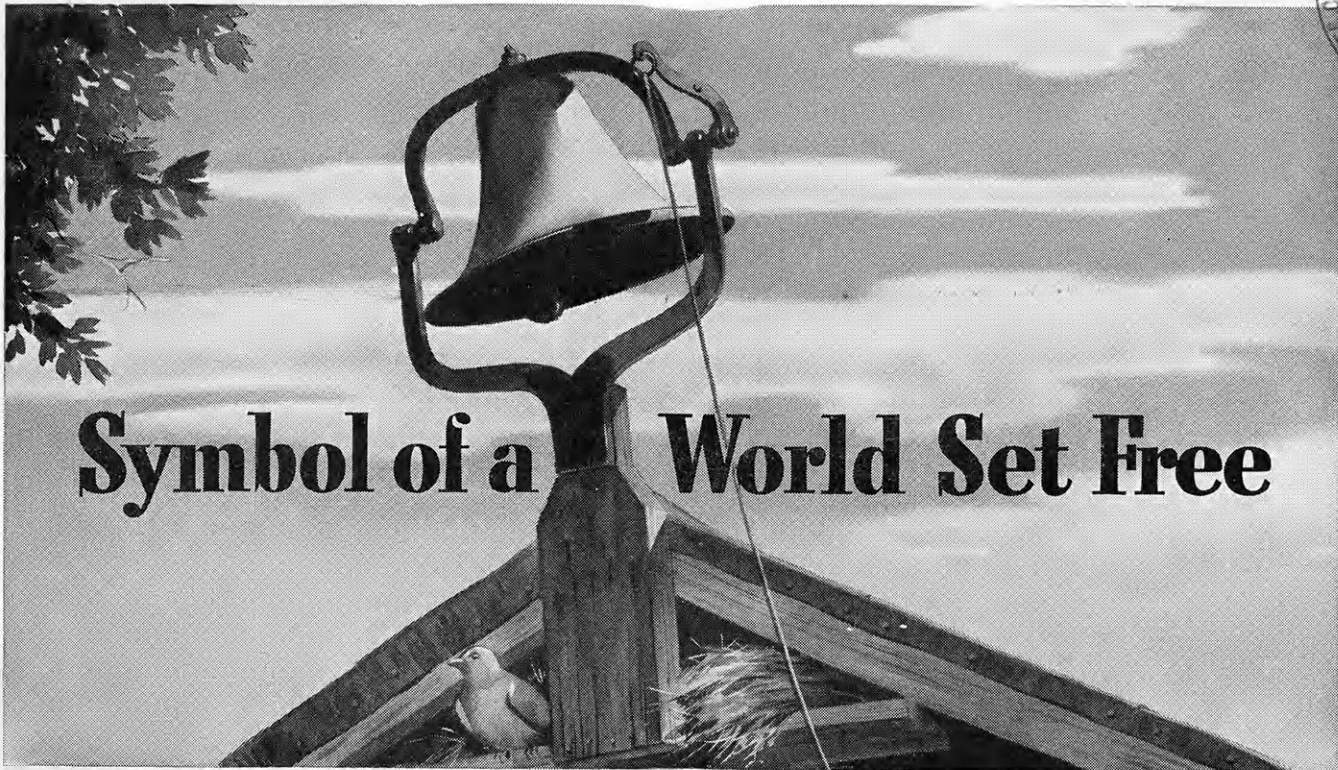
The Kansas State College Dairy Cattle Judging team placed third in the Collegiate Dairy Judging contest at the Dairy Cattle Congress September 7 at Waterloo, Iowa. The team, coached by Prof. G. H. Beck and made up of John Aiken, Chase Wilson, Glenn McCormick, and Dale Bowyer, competed against 13 teams representing that many states.

In breeds the team ranked first in Ayrshires, first in Guernseys, second in Jerseys, and sixth in Holsteins.

Chase Wilson was seventh high individual in the entire contest and placed second in Ayrshires and Guernseys, Glenn McCormick was fourth high individual in Guernseys.

—John Weir.

Prof. Rufus Cox has been chosen as faculty adviser by the members of the Block and Bridle Club to replace Prof. D. L. "Davy" Mackintosh who is in the army now.



Symbol of a World Set Free



Not until long after Philadelphia's Liberty Bell had clanged and cracked was this humble bell heard. It is the dinner bell on an old farmhouse in Illinois. Its voice is a call to eat, to abundance of hearty, wholesome food. It means more than ample fare for a farm family. This bell is the symbol of a system of farming which for the first time in human history can produce plenty of food for all of the people all of the time. Its valiant ring proclaims freedom to farmers from serf-like drudgery for a peasant's pittance.

Before this, no nation ever had been free from famine. For hundreds of years, the average in England was ten years of famine in each century. In Europe, whole cities were well-nigh wiped out as pestilence finished the ghastly work of starvation. That was in lands whose soils still produce more per acre than the average in America. When the first colonists came here they had all the wealth of a new world beneath their feet. Yet half their people died for lack of proper food.

Neither richness of soil nor abundance of acres has ever

of itself spared mankind from danger of death by hunger.

In the American way of farming hybrid corn and high-bred livestock, inoculated legumes and chemical fertilizers all do their bit to add production per acre. *But it is farm machinery that multiplies production per man and puts plenty in the place of scarcity.*

For less than five per cent of farm income, farm machines enable the farm family to feed itself and three other American families, to furnish fiber for most of their clothing, and still leave a huge surplus for export or for the miracles of chemurgy. By freeing those other three families to create music and movies, automobiles and radios, high schools and hospitals, farm machinery gives us all our material blessings.

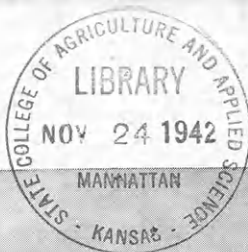
For a hundred years the American system of free enterprise has given us new and improved machines so thick and fast that it was good business to discard the old and replace with new. *We dare not do that now.* Every machine, new and old, must be kept fighting to its full capacity on the food front. To win the battle of food despite less and less of farm help, we must make machinery do more and more.

Speeding the Day of Victory

To meet the need for munitions, Case factories now are producing large amounts of war materiel. Case industrial tractors, too, are being built for the armed services, air fields, ship yards, docks, defense plants and other war agencies. Similar help with the war effort is provided by Case farm tractors, combines, and other machines. They multiply crop-producing capacity per man and help maintain food production despite depletion of farm manpower. On both the military front and the food front their performance reflects the endurance which has been a Case principle for a hundred years. J. I. Case Co., Racine, Wis.



CASE



Women Join the *"Field Artillery"*

as International Harvester Dealers

Teach Power Farming to an Army of "TRACTORETTEs"

THE SUN is just over the ridge. Breakfast is just under the belt. The farmer and his helpers sample the breeze as they stand on the back steps, and the farmer says:

"I've got to go into town this morning and I'll be gone a while. Meantime, Emily, you and Ruth might as well start in on the south forty."

Emily? Ruth? Girls? Sure, why not? For Emily and Ruth are Tractorettes . . . and they know their stuff. They'll check their tractors for fuel and lubrication. They'll make those minor engine adjustments they noted mentally last night. They'll roll out early and do a first class job of field work, straight down the rows.

What is a Tractorette?

A TRACTORETTE is a farm girl or woman who wants to help win the battle of the land, to help provide Food for Freedom. She is the farm model of the girl who is driving an ambulance or running a turret lathe in the

city. Like her city sisters, she has had the benefit of special training.

Late last winter International Harvester dealers began to train this summer's Tractorettes. The dealers provided classrooms, instructors, and machines. The Harvester company furnished teaching manuals, slide films, mechanical diagrams, and service charts. The girls themselves were required to bring only two things—the will to work and a complete disregard for grease under the fingernails or oil smudges on the nose.

They studied motors and transmissions, cooling systems, and ignition. They studied service care. They learned to drive tractors. They learned to attach the major farm implements that are used with tractors. And they were painstakingly taught *the safe way* to do everything.

Today, on their family farms or elsewhere, thousands of "graduates" of these emergency schools are doing a real job for victory. Tractorettes are

working to provide the food that is a vital weapon in the war that America wages. They are doing the farm work that used to be done by boys who now are flying bombers or riding the slanting decks of a destroyer.

Their Tractorette training cost them nothing except the energy and intelligence which they put into it. The company conceived and launched the program. Its financial costs are shouldered by both the Harvester dealers and the company.

This fall and winter Tractorette training courses will be broadened to meet new needs as they arise. Thousands of new girls will take the course and join the "women's field artillery" next spring, fit and ready for the every-year battle of the land. Until Victory is won, Tractorette training will continue to be one of the important *extra* services gladly rendered by Harvester dealers, as typical American businessmen, to the farmers and to the nation.

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