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Kansas Farmer

CONTINUING MAIL & BREEZE

MAY 15, 1948

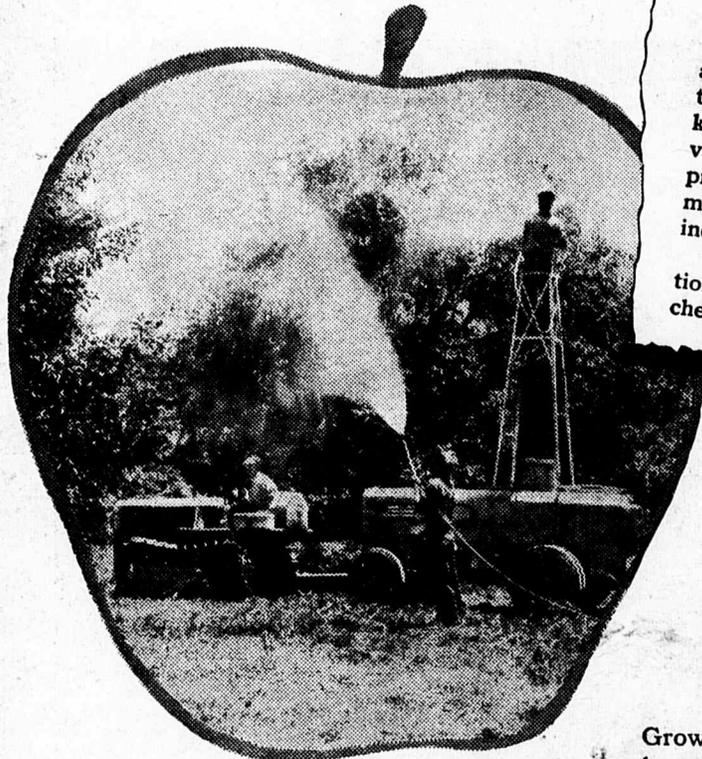


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FARM SERVICE BULLETIN



It's NEWS how the recently developed chemical growth regulators are revolutionizing farming. Six of these chemical compounds already in actual use. Here are some of the things they are accomplishing: Selective weed killing, preventing pre-harvest drop of some varieties of apples, ripening of starch fruits, preventing sprouting of potatoes, and plant materials such as roses held in storage, and increasing fruit set.

These are only the beginnings of an exceptionally bright future for these remarkable chemical farm hands.

Chemical Growth Regulators Bring Higher Orchard Profits

Growth processes and growth patterns can now be considerably controlled by newly discovered chemicals. Uniform ripening of starchy fruits (apples and pears) by chemicals is now coming out of the experimental stage. Increasing fruit set and preventing pre-harvest drop of Winesap apples is another application of growth regulators now in use. Write your State Experimental Station or USDA for facts.

Automatic Insect Spray

Safe, convenient, fast-acting—sure death to all common household pests and insects. Kills moths, flies, mosquitoes, ants and other pests. Clean-smelling, easy-to-use, stainless. Available now in new streamlined push-button container. Ask your Farm Service Representative.

New Chemicals Aid Potatoes, Tomatoes, and other Vegetables

Here are some of the things "growth regulators" accomplish: Plants such as tomatoes will set fruit despite weak pollination. Others normally hard to root will root in a short time. Potatoes can be stored without sprouting. Even apple "scald" promises to be checked. There is also the possibility of controlling water content in some vegetables during storage.

Improved Design Tractor Tire

The new "claw grip" tread pattern of the Cities Service tractor tire gives powerful traction on wet or dry ground, throws off bogging mud, resists stone and rut bruises, rides easier in field or highway, is 25% longer lasting. Ask for a demonstration by your Cities Service Farm Representative.

Chemical Warfare on Broadleaf Weeds

2,4-D is highly effective upon broadleaf weeds. It holds promise of controlling such hardy perennials as bind weeds when used in combination with smother crops. Write USDA for more facts about weed killers.



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ACCESSORIES FOR THE FARM

Who Won With Beef

FIFTY-FOUR livestock men entered this year's Kansas Beef Production contest, it was announced May 1, at Manhattan, when winners were presented with awards during the annual Feeders Day program. Twenty-nine entries were recorded last year.

The feeder calf and creep-fed calf divisions of the contest were divided into the 3 major breeds, while the deferred-feeding contest was open to all breeds.

Winners in the various divisions were as follows:

Feeder Calves

HEREFORDS: Ralph Deewall, Coldwater, first; Joe Boyce, Jetmore, second; C. C. Piester, Croft, third, and Briggs & Bailey, Mullinville, fourth.

ANGUS: Joe W. Pruitt, Barnard, first; Wear & Pruitt, Barnard, second; Willard Ericson, Marquette, third, and Lloyd Ericson, Marquette, fourth.

SHORTHORN: M. E. King & Sons, Potwin, first, and F. A. Johnson, Garrison, second.

Creep-Fed Calves

HEREFORDS: E. B. Wickstrom, Marquette, first; Snider-Torrance, Eureka, second; D. A. Cassidy, Frankfort, third, and Wakefield Ranch, Atlanta, fourth.

ANGUS: Ed Crammer, Harlan, first.

SHORTHORN: Carl W. Oberst, McPherson.

Deferred-Fed Yearlings

Hoover Brothers, Detroit (Herefords), first; Bob Meyer (Herefords), second; Walter Bitterlin & Sons, Milford (Angus), third; Dan Casement, Manhattan (Herefords), fourth; Alfred Regier, Clearwater (Shorthorns), fifth, and E. G. Richards, Belleville (Herefords), sixth.

Get Thorobreds

Two thorobred mares of famous lineage have been obtained by Kansas State College thru Army Surplus, announces A. D. Weber, head, Kansas State College animal husbandry department.

The mares, Reno Reverie and Agnolla, will be used in class instruction and for breeding purposes, Doctor Weber said.

Agnolla is the great-granddaughter of Man o' War and To Broom Stick. Reno Reverie's great-grandmother was Ullinuis. The mares were raised at Army Remount Stations in Fort Royal, Va., and Fort Reno, Okla.

Safe Fork Holder

A few bags of sand placed about barns where forks are kept make for neatness and extra safety. The forks can be quickly stuck into the sand bags where they can't fall and are automatically cleaned.—D. L.

Senator Capper on Radio

Every Sunday afternoon at 4:15 o'clock Senator Arthur Capper discusses national questions over WIBW radio station.

KANSAS FARMER

Continuing Mail & Breeze
Topeka, Kansas

Vol. 85, No. 10

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In Picture Above—August Scheetz grinding shell corn on his electrified poultry farm, R.F.D. 6, Topeka. In Circle—His fine flock of chickens are healthy and hungry in dead of winter when photo was taken.

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- Incubate eggs
- Light the poultryhouse
- Pick birds
- Ventilate laying houses
- Heat drinking water in cold weather
- Debeak birds to prevent cannibalism
- Check air-borne disease with germicidal lamps

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Good Grain for Gains

Tests at Fort Hays Experiment Station Show

LIVESTOCK men in Western Kansas can successfully fatten cattle using locally-grown grains and roughages, it was explained at the Hays Feeder Day program, April 24.

Using 4 lots of choice yearling steers, one experiment at the Fort Hays Experiment Station compared the economy of full-feeding sorghum grain with silage and cottonseed cake, as compared with a three-fourths, one-half, and one-fourth full-feed.

Grain used was ground Westland milo. Pink kafir silage and silage made from the new Ellis sweet sorgo were used. Steers in all 4 lots were given all the silage they would consume during the 150-day feeding period.

Average gain on the full-fed lot was 340 pounds but cost of gain per 100 pounds was \$34.89. Steers on a three-fourths grain feed gained 310 pounds at a cost of \$32.70 a hundredweight, while those on half-feed gained 305 pounds at a cost of \$28.18 a hundredweight. All 4 lots will be slaughtered and followed thru the packing plant to study carcass grades and dressing percentages.

Silage and oats straw, fed in varying amounts along with cottonseed cake, were fed as a winter ration to yearling replacement heifers to study utilization of silage and other roughage. Four lots of replacement heifers were used.

Heifers receiving from 20 to 27 pounds of silage, 1 pound of cottonseed cake and free access to oats straw, made winter gains of from 53 to 79 pounds. However, where 35 to 40 pounds of silage was fed, along with cottonseed cake and free access to oats straw, gains were 125 pounds for the winter and cost of feed for 100 pounds of gain was reduced.

Proved Superior 3 Years

For the third straight year a winter ration for stock calves that contained silage, plus 4 pounds of ground alfalfa daily, proved superior to silage and cake or silage and sorghum grains. Alfalfa increased average daily gains and lowered cost of gains in all trials over the 3-year period. Four pounds of ground alfalfa produced significantly more gain than 1 pound of cottonseed cake or 2 pounds of ground grain sorghum, but only slightly more than 2 pounds of ground alfalfa plus one-half pound cottonseed cake.

Effects of different intensities of grazing on beef production and on the density, growth and botanical composition of vegetation in the pastures used were reported at the meeting. This was the second year for grazing studies.

Both years the heavily-grazed pasture produced more beef to the acre than either moderately- or lightly-grazed pastures. This is typical, it was explained, for the first 2 or 3 years of grazing comparisons. The questions, yet to be determined, are how many years a heavily-grazed pasture will continue to produce grass, and how cattle will fare when grass thins out.

Gain per head for the season was 146 pounds in the lightly-grazed pasture, compared to 134 pounds a head for the moderately-grazed pasture, and 138 pounds for the heavily-grazed pasture.

Rate of stocking for the 3 pastures was as follows: 1 head to 2.03 acres; 1 head to 3.40 acres, and 1 head to 5.15 acres. Steers outgained heifers during the grazing season, it was reported.

Considerable concern over salaries paid at Kansas State College was expressed by Herb Barr, Leoti, president of the Kansas Livestock Association, in a speech prior to the feeding results.

"Kansas State College is losing instructors at the rate of more than 100 a year," stated Mr. Barr. "Only one other state in this area has such a low salary scale. We need to bolster salaries if we are to hold the good men we have left, or if we hope to attract good men into the college. We also need more funds for research and experimental work at the experiment stations." He urged farmers and livestock men to inform their local legislative representatives concerning the need for larger appropriations for instructors and experiments.

Discussing the needs of the Kansas Beef Cattle Industry, Jerry Moxley, of Dunlap, president of the Kansas Hereford Breeders' Association, said: "We need some way for more young people to get into the beef cattle business. We

older operators may have to take young fellows into some kind of partnership to get them started, due to the high cost of modern farm operations."

Mr. Moxley pointed out that the long-time prospects for the beef cattle industry were good because human population is outgaining cattle population, and because there is a closer relationship between prices and costs in a long-time cattle program than in crop programs.

"Drouth and depression are the biggest hazards in the cattle business," said Mr. Moxley. "Two silos in every lot is the best drouth insurance—one for this year, and one for next year. Feed prices always are out of line in periods of distress so it is best to plan your own feed reserve. The best insurance against a depression is to handle quality cattle that will command the best market any time."

"Raising a 35-cow herd one grade will bring the owner enough profit to buy another quarter section of land," Mr. Moxley said.

"There is a lot of confusion in regard to beef types," stated Dr. S. S. Wheeler, head Department of Animal Husbandry, Colorado A. and M. He mentioned that the types given highest honors in shows often are not the types most looked for in breeding cattle. "Breeder and consumer demands are too variable," he said, "for any one type to meet all conditions."

Trend to Lighter Weights

Doctor Wheeler said that "adaptability to local environment (climate, feed and grass), plus the ability to change feed to beef, are the most important considerations for the cattleman. Consumer preference will continue to influence type, he said. Without choosing a favorite type of his own, Doctor Wheeler said present indications point to a continued limited demand for heavy prime beef. All trends, he said, are toward lighter market weights, shorter feeding periods, and quicker turnover with less finish."

Will It Pay?

It may be cheaper to build a new home than to remodel an old one. That is the opinion of Vera M. Ellithorpe, Kansas State College extension home management specialist.

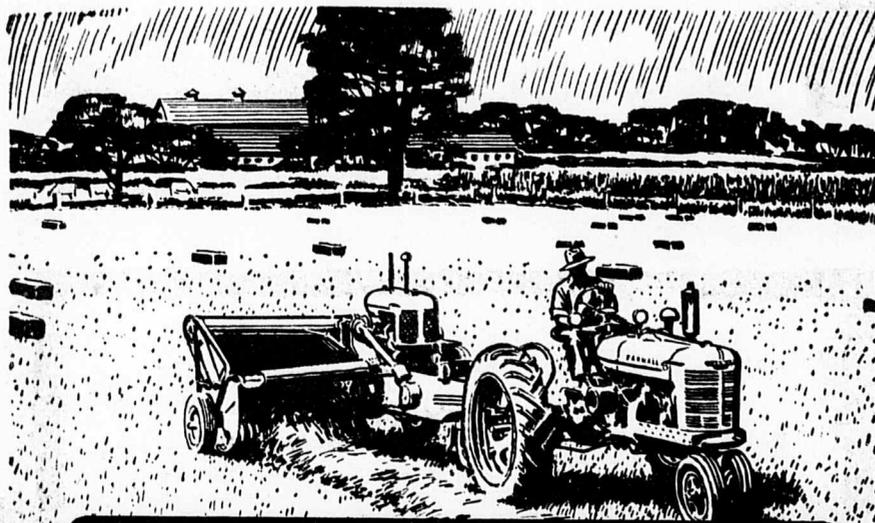
"There is more remodeling of old farmhouses in Kansas than can be justified," says Miss Ellithorpe. "Foundations, sills, sub-flooring, siding, and chimneys need close examination before a decision to remodel is made. The condition of the lower half of the house is of great importance," she pointed out. "If the lower half of the old house is not sound, remodeling may be a costly and disappointing venture."

"A particular point to avoid," says Miss Ellithorpe, "is a bracket-type chimney. Such type chimneys are fire hazards," she warns.

Name Over Gate



Here is an idea that would add attractiveness to the farmstead and be of great service to visitors. Mason McComb, of Stafford county, has his name hung over the gate for identification.



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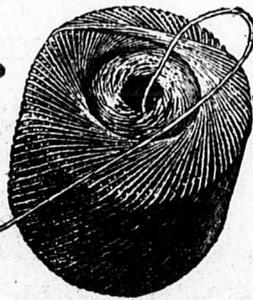
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cifically for use with automatic twine-tying pick-up balers, such as the McCormick-Deering No. 50-T and the new No. 45.

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BALER and BINDER TWINE

Apple Men Eat Apples!

By J. S. BRAZELTON

APPLE growers of Northeast Kansas and Northwest Missouri got together recently for a fish fry at Wathena. The dinner went over big, as it was something entirely different than fruit growers have been accustomed to. Ordinarily when the hotels of this area are asked to serve a banquet to fruit men, the management thinks it is doing a great favor to the apple producers to serve apples in every possible way. Consequently the apple men are a bit fed up on apple pie, apple salad and fried apples. They are willing enough to help provide a market for their product in this way, but nevertheless such a menu gets monotonous.

The get-together on this occasion was a success in more ways than one. In the first place it proved again that Missourians and Kansans, having a common interest, can associate with one another to the mutual benefit of all.

Following the dinner the fruit men drove out to the Dubach brother's orchard, south of Wathena, where the state is doing some experimental work under the direction of Erwin Abmeyer. Mr. Abmeyer, introduced by the county agent, C. E. Lyness, told of the establishment of the 15-acre orchard following the 1940 freeze, and explained that one of the purposes is to test the practicability of top-working standard varieties onto hardy root stocks.

Not Resistant to Cold

Most apple trees purchased at nurseries are root-grafted to French crab, but this root stock is not resistant to cold. Virginia crab and Hibernial crab are more hardy. One third of this experimental orchard, consisting of 534 trees, was planted to Hibernial; one third to Virginia and one third to French. The visiting apple growers saw trees of the hardy crabs that had been budded when they were 2 years old to such commercial varieties as Gano, Turley, Jonathan, Winesap, Rome, Grimes, Joan, Edgewood and Staymared.

Just as the 1940 freeze prompted this experiment in the use of hardy root stocks, so did the drouth years of 1934, '35 and '36 provide a reason for another experiment. The trees in this orchard are not planted according to the conventional square method. Instead they are planted on the contour. Trees were set in the center of contour terraces. The idea, of course, is to store as much moisture as possible in the soil so the trees will be better able to withstand future drouths.

In addition to the Missouri guests, accompanying the tour were Dr. William F. Pickett, head of the department of horticulture, Kansas State College; Mr. Campbell, horticulturist in charge of spray investigations at Manhattan; and William G. Amstein, extension horticulturist. Following the meeting at the Dubach orchard the Kansans went over into Missouri and became the guests of the Missouri growers at the Spear experiment orchard near Faucett. Here Webb Embrey, county agent for Buchanan county, took charge and introduced W. R. Martin, extension horticulturist, Missouri College of Agriculture, Columbia, who told of the prospects for apple and peach crops over in Missouri.

Examine Planting Methods

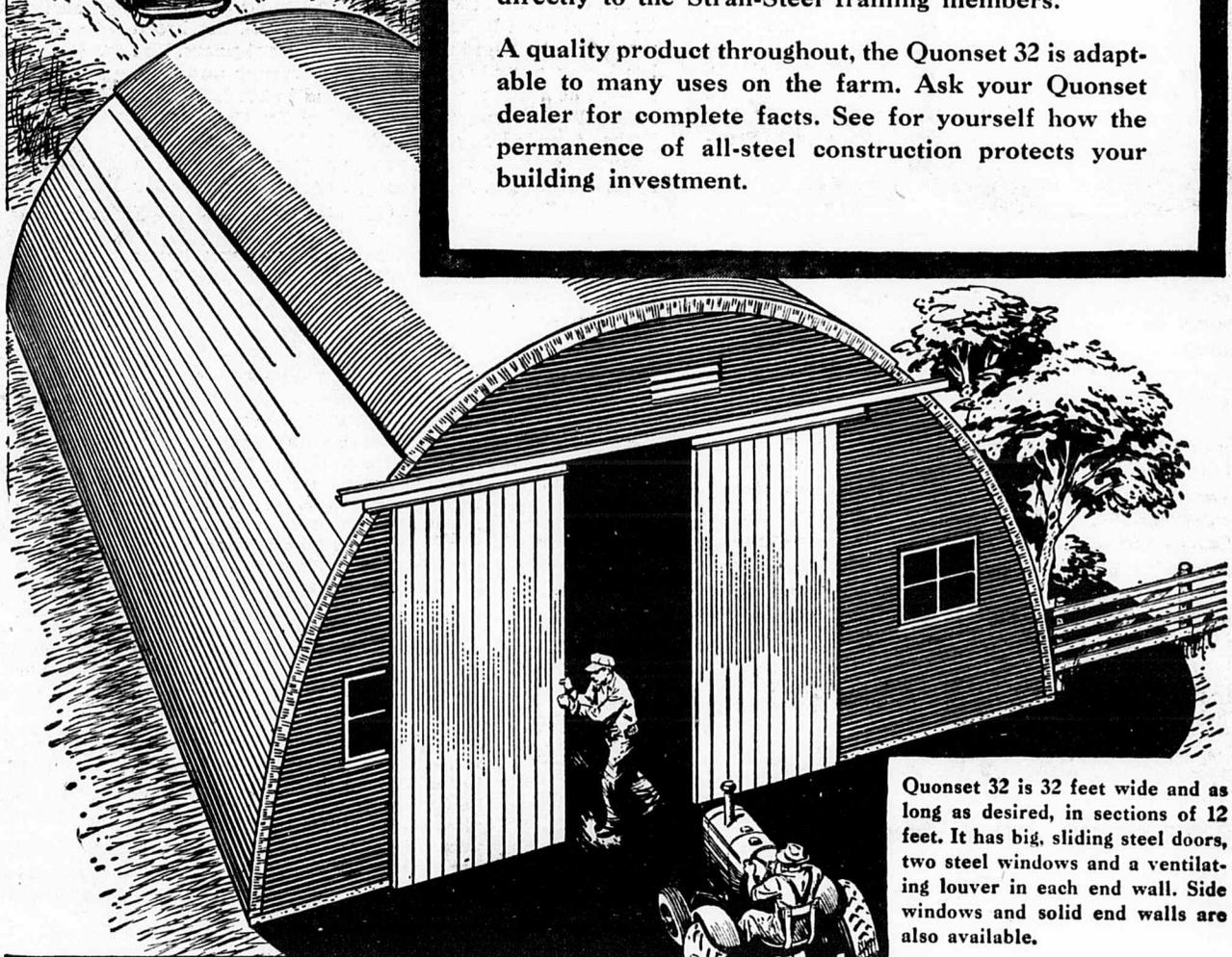
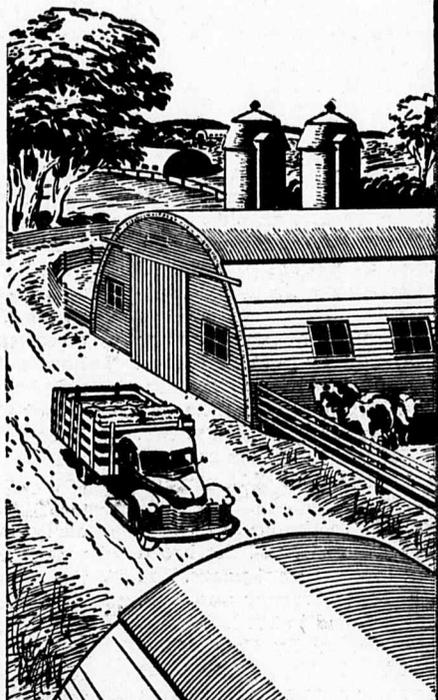
The Spear orchard is owned by the Missouri State Horticultural Society, but the experimental work is carried on by the horticultural department of the college under the direction and supervision of Professor Swarthout. The visitors were given an opportunity to observe the tree plantings on contoured terraces, trees planted on the contour without the terraces, and trees planted in straight rows or in squares. Trees in this orchard also had been top-worked on hardy root stocks. An Iron Age sprayer, used in the orchard, was shown to the visiting orchard men as this particular make of sprayer has never been used in this apple district.

Attention was called to the luxuriant cover crops of rye and vetch. Grassed waterways at the ends of the contoured rows were of especial interest to many, as also was the concrete structure built to carry the water from the grassed waterways to the nearby creek.

The meetings were well attended and the day was spent profitably.

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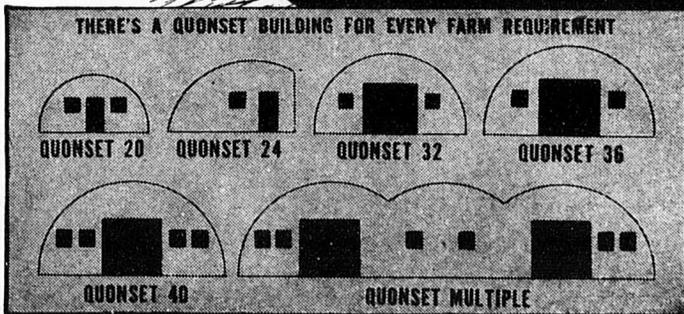
Compare the cost of any other building of similar usable floor area with the Quonset 32! You will find this all-steel building lowest in first cost and by far the least expensive in maintenance over the years.

Fastest to erect of any type of building, the Quonset 32 provides shelter for any purpose you require in the shortest possible time—days before any other kind of building can be roofed over.

Framed with steel and covered with steel, your rigid, rugged Quonset 32 is rot-proof, termite-proof and fire-resistant. It can easily be insulated or lined with any collateral material you choose, because you nail directly to the Stran-Steel framing members.

A quality product throughout, the Quonset 32 is adaptable to many uses on the farm. Ask your Quonset dealer for complete facts. See for yourself how the permanence of all-steel construction protects your building investment.

Quonset 32 is 32 feet wide and as long as desired, in sections of 12 feet. It has big, sliding steel doors, two steel windows and a ventilating louver in each end wall. Side windows and solid end walls are also available.



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Kansas Holsteins in National Limelight

... Due to Careful Breeding Practices

By ED RUPP

KANSAS Holsteins will be in the limelight June 1 and 2. Those are the dates for the 63rd annual convention of the Holstein-Friesian Association of America. And the meeting place will be Kansas City. Holstein breeders of Kansas and Missouri will be the convention hosts.

Actually, it will be a 4-day convention. Because committee meetings will be completed in time for the meeting of the board of directors May 31. And on that same day a tour will be conducted to visit the world-famous Clyde Hill Holstein farms, at Clyde, Mo. Then on the fourth day, June 3, about 70 head of registered Holstein cattle will be sold at auction during the National Convention sale.

It was 1922, 26 years ago, when the national convention last met in Kansas City. Of course, there were good registered herds of black-and-white milk cows in Kansas then. But dairying has pushed west since that time and with careful breeding practices, Kansas Holstein men have greatly improved the over-all quality of their cattle. Consequently, big eastern dairymen are beginning to look west for replacement cattle and even herd sires.

There is good reason for the present high standing of Kansas Holsteins. Let's look back a few years and see what has happened. This now popular breed was all but unknown 50 years ago. Because of the vast acreage of wild grass in Kansas, it seemed destined to be strictly a beef cattle state. It was not un-

common in that day to cast aspersions on the man who milked cows. K. W. Phillips, prominent Holstein breeder at Manhattan, recalls an old saying he heard frequently earlier in the century. It was, "No man that milks cows ever wore diamonds." But airymen today are making a lie of that sentence.

A few Holsteins could be found in Kansas before the turn of the century. According to G. Raymond Appleman, Linn, Holstein fieldman, the first pure-bred Holstein breeder in Kansas of which he can find a record, was a Mr. Stone, of Peabody. Mr. Stone was nationally famous in the other century as he showed his Holsteins over most of the nation in the period between 1890 and 1900.

There were other Holsteins in the state at that time and even before, but popularity of the breed was hardly recognized until more recent years. The herd now owned by Mrs. H. D. Burger and Son, Harry, at Seneca, was established in 1908. In 1910 Harry W. Mollhagen, Bushton, and Ira Collins, Sabetha, founded registered herds. Two years later John A. Reed, Lyons, began to replace grades with registered stock. Ira Romig, Topeka, was already a leading breeder in that day and there were many others.

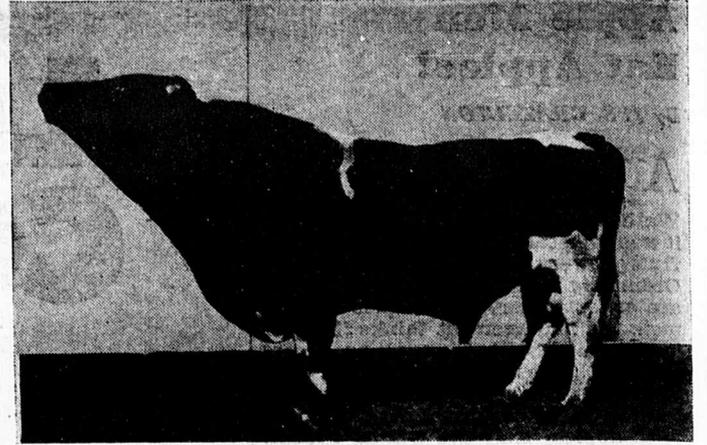
But for the most part in that day farm herds were being improved with good registered beef bulls. The relationship between type and milk pro-

duction was not generally recognized then as it is now. For that reason the Holstein bull was considered a threat to the cattle industry as a whole.

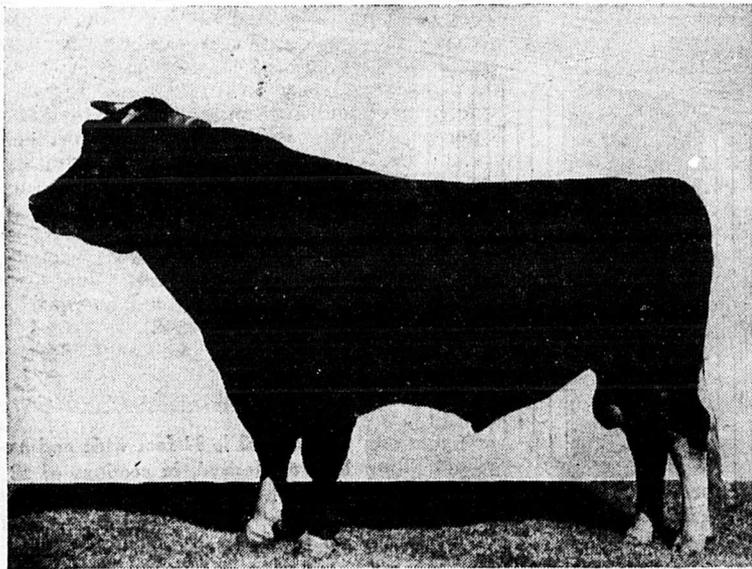
Another situation that delayed progress of the breed was the lack of commercial markets. But with the appearance of creameries and cheese factories, dairying became a business. And the Holstein cow grew steadily in favor because of her size, hardiness and ability to consume large amounts of roughage and produce dairy products economically.

But the growth of Holstein herds was gradual. Breeding stock had to be brought in from other states. And at first many animals of inferior type and low production were brought in by speculators and uninformed buyers. Nevertheless, from the early part of the century until the twenties, there was a marked increase in Holstein popularity in the state.

In 1916 the Kansas Holstein-Friesian Association was organized. W. H. Mott, Herington, was named secretary of the association and held the office for several years. In 1917 the first annual meeting was held at Newton with a public sale in connection with it. Many of the cattle for this sale were selected from Wisconsin and New York herds by Mr. Mott and Doctor Axtel, of Newton. This sale did much to stimulate Holstein interest in the state, due largely to the publicity given before and after. The sale was attended [Continued on Page 32]

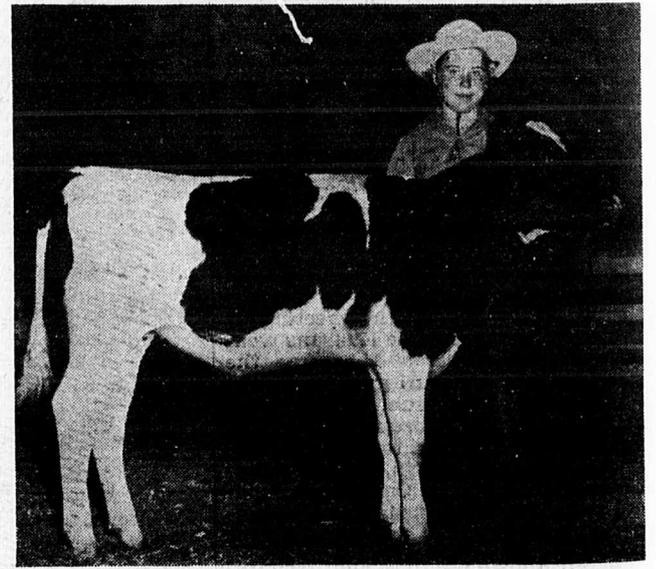


Fredmar Sir Fobes Triune once headed the former Meierkord herd in Washington county. There probably are more descendants of this bull in the state than of any other sire of recent years. He bred type and milk production into his progeny. He has been dead 2 years.

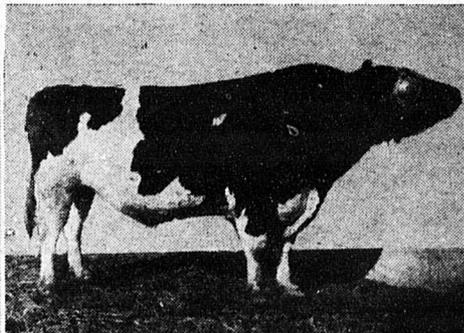
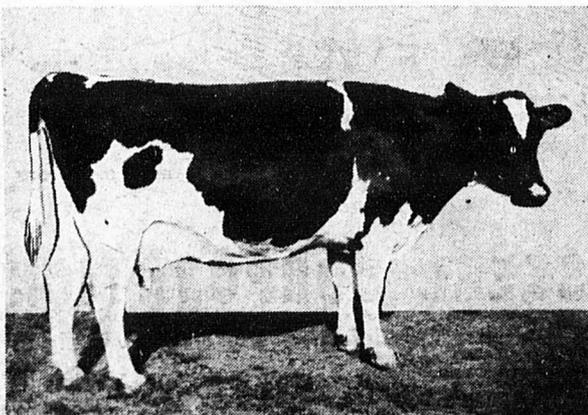


At Left: HRW Homestead Pontiac Triune has never been beaten at Kansas State Fair. Owned by Heersche Brothers, Mulvane, and E. B. Regier, Whitewater, he is an example of the type of herd sires in use in Kansas Holstein herds today.

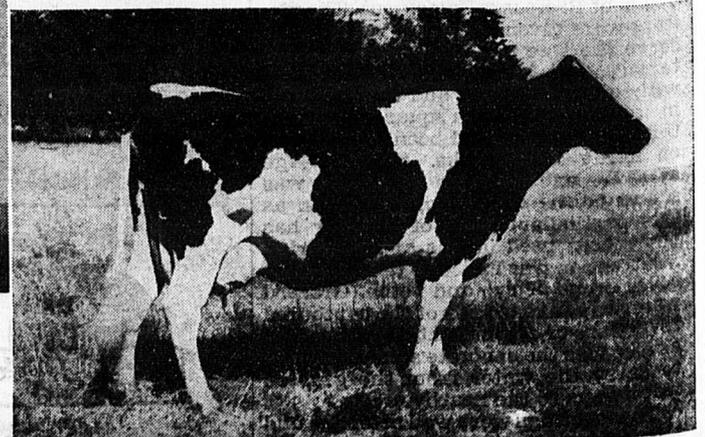
At Right: Heifer replacements like this have helped build Kansas herds. This heifer calf was grand champion of the state show last year. She is Greta Blood Royal Ormsby, shown by a 4-H girl, Maxine Fickel, Chanute.



Below: This excellent cow, Madge Speckle Aurora, was the all-Kansas aged cow last year. Owned by Grover G. Meyer, Basehor, she is a good example of Kansas Holsteins.



Above: Pabst Burke Walker Jule is one of several sons of the prominent Wisconsin Admiral Burke Lad in use in Kansas. This bull is owned by Carmen Brothers, at St. Francis. This Burke line is one of the hottest in the nation.



Below: About 30 Holstein cows in the state are classified excellent. This one is Quin Dale King Bessie, bred and owned by Quentin Kubin, McPherson, vice-president of the state association.

Farm Matters

AS I SEE THEM

AS A MEMBER of a subcommittee of the Senate committee on banking and currency, I am giving considerable attention the next few days to the proposed international wheat agreement. Other members of the subcommittee are Senators Lodge, of Massachusetts, and George, of Georgia.

This agreement, which is classed as a treaty, thereby requiring senate ratification by a two thirds majority, would apportion the world wheat market among the contracting nations for a 5-year period, beginning next fall if a sufficient number of nations ratify it. It involves 33 importing nations and 3 exporting nations: United States, Canada and Australia.

It carries provision for maximum and minimum prices. The maximum price for the entire period is \$2 a bushel; the minimum price the first year is \$1.50 a bushel; this minimum (or floor) price would be lowered 10 cents each year until the floor of \$1.10 is reached.

The agreement provides that the United States would furnish 185 million bushels a year at prices ranging between these extremes. More than the allotment of each purchasing country would be sold at prices agreed upon between the exporting and importing nations, and would not be controlled by the \$2 maximum and \$1.50 (sliding down to \$1.10 in 4 years) minimum prices.

There are 2 phases of the proposed agreement that carry serious implications in relation to Kansas wheat. You will note it calls for 185 million bushels of export annually.

Total wheat and flour exports the current marketing year—ending June 30 next—will approximate 500 million bushels. That is considerably more than the 185 million bushels under contract for delivery in the proposed agreement. It can be assumed, I believe, that the 185-million-bushel figure is what the importing nations feel they will need from the United States in each of the 5 years covered. That means either a considerable reduction in wheat production or huge annual surpluses—unless Uncle Sam buys heavily to hold up prices.

In the matter of price, I am somewhat disturbed by that \$1.10 a bushel floor for exported wheat. Without considerable reduction in existing price levels generally, I do not see how American farmers can afford to sell at that price. And with a prospective \$50 billion Federal budget required to carry the new preparedness program, the expanded Marshall Plan, and the new lend-lease program—well, I just don't see how Federal expenditures of \$50 billion a year can be met on \$1.10 wheat. It just does not seem possible to me.

So far as the 1949 wheat crop goes, American wheat producers will get the benefit of the 90 per cent of parity price support. I am taking it for granted that before this Congress adjourns it will extend the price-support program for at least another year, and that the support price will be at 90 per cent of parity for basic commodities, including wheat.

I think we—the members of the Senate Foreign Relations Committee; the Senate; and wheat growers and the grain trade—had better give this international wheat agreement a very thoro going over before allowing it to be approved thru Senate ratification. Probably can tell you more about it in another 2 weeks or so.

The Economic Co-operation Administration (expanded Marshall plan) has not announced export

plans for the coming fiscal year but it is pretty well understood that, on the whole, exports of farm commodities will be from 15 to 20 per cent lower than for the current year. Best estimates I can get now are that exports of grain (and products) will be from around 474 million bushels to 400 million bushels. Also that exports of fats and oils will drop between one third and one fourth, and egg exports will be little more than one third of this year.

Tobacco and cotton are slated to get increased export markets under the Marshall program, going from around 475 million pounds up to 521 million pounds; cotton upped from 2,500,000 bales to 3,500,000 bales.

Farm Efficiency

I LIKE to point to the efficiency of American agriculture as an outstanding example of what can be accomplished in a free country. Mention to anyone that farming has made great strides in improved methods and efficient production, and he no doubt will agree. At best, however, most folks have a rather hazy idea of what has taken place out on our farms. Television and rocket planes are perhaps better known to the average person than the facts about food production. Agriculture is taken for granted—like the weather. But agriculture has a story to tell, as dramatic as the story of any other business.

I find information in the Department of Agriculture's "Progress of Farm Mechanization," that bears out this statement. As an example of how efficient farmers have become, look at this. In total farm production, each farm worker in 1945 produced enough agricultural products to support himself and more than 13 other persons. Back in 1920, which isn't so long ago as time flies, each farm worker was able to feed himself and 9 other folks, which wasn't so bad, by any means. But for a really startling contrast, compare the 1945 record of 14.54 persons supported by the farmer in the group, to the 1820 record of one farm worker being able to support himself and only 3 others.

I might add here that our 1948 farmer can support his 14 or 15 people with much less back-breaking labor than was the case of the 1820 farmer feeding himself and 3 others. I am glad of that. Not that farming doesn't still mean plenty of hard work. But modern equipment has made the multiple job of growing food easier. I feel it is more important to have efficient, laborsaving farm equipment than improved equipment for any other business. And not incidentally, farm need and farm use of modern power farming equipment keep thousands upon thousands of men employed in manufacturing that equipment.

While farmers don't work the same kind of 8-hour day others contract to work—I recall a farmer's 8-hour day consists of 8 hours in the morning and 8 hours in the afternoon—it is interesting to measure present farm production in output per man-hour. Each man-hour of farm labor meant 44 per cent more gross production in 1945 even, than it did in the period 1917 to 1921. You can make a good estimate from this as to how large the per cent of increase has been since 1820 when one worker on the farm could support himself and about 3 other persons.

Now, credit for this great increase isn't a one-

sided affair. About 50 per cent of the credit does go to farm mechanization. In other words, farm machinery gets half of the credit for this huge increase in man-hour production of foods. Other developments, however, come in for their share. Increases in crop yields are highly important.

These are due to the genius of farmers and scientists producing higher-yielding, disease-resisting seeds to plant. Due, also, to better handling of the soil, wider use of fertilizers and good crop rotations. Increases of yields from "livestock units" rate right along in importance with increases in crop yields. Together, the 50 per cent time-saving of farm machinery, and the 50 per cent saving from increases in yields of crops and livestock, add up to 100 per cent credit for this 44 per cent increase in gross production for each man-hour.

The only fault I find with these figures is the fact that the farmer has been left out of the credit picture. This is a case in which figures don't always tell all the truth. Because I believe the farmer himself is as important as all the other factors combined. Without his intelligent planning of the production schedule, without his efficient operation of the farm machinery, without his taking advantage of every good break in the weather, without his personal attention to dozens of other things you can name, there simply would be no 44 per cent increase in gross man-hour production. Machines don't run by themselves.

That is why I firmly believe we need the best type of men and women, the best-qualified individuals, to man our agriculture. We hear a great deal about soil erosion being our Number 1 problem. I'll go along with that. But just where, may I ask, would you put the problem of farm manpower erosion? We never will save the soil and continue to be the best-fed nation on the earth unless agriculture can hold on to the best-qualified men and women any business in this country can boast.

This big job of a rather few people—the farmers—feeding a nation, and helping many other countries, can be brought out strikingly by using a very few figures for comparison. Let's drop back to that 1820 date for just a minute. About that time, it is estimated, nearly 72 per cent of the entire working force of the United States was engaged in agricultural pursuits. That means only 28 per cent of the people gainfully employed had jobs in other lines of business than farming. By 1920, those figures had almost exactly been reversed. In 1920, records show, the agricultural force represented only 27 per cent of the total working force of this country, while workers in other lines ran up to 73 per cent. Twenty years later—in 1940—this percentage had dropped to 18, and it very likely is lower in 1948.

Just think of the importance of that 18 per cent of our workers! It is up to them to feed everybody. It is up to them to see that future production is not endangered. If we count the whole population—not just the working force—the job is even bigger, more important. In relation to the total population of this country, our farm labor force now amounts to about 7 per cent. Here is another case of "so many owing so much to so few."

Arthur Capper

Washington, D. C.

Battle Over Hope Farm Bill

By CLIF STRATTON
Kansas Farmer's Washington Correspondent

WASHINGTON, D. C. — Miscellanies along the farm front: Rep. Clifford Hope's soil conservation and land use farm bill, which would build a national land use and management program around the Soil Conservation Districts and the presently operating Soil Conservation Service, is under heavy attack from within and without the House Agriculture Committee, of which Hope is chairman.

The Department of Agriculture considers the reorganization features of the measure too rigid, inflexible; would "tie the hands of the Secretary of Agri-

culture." The Farm Bureau wants the Soil Conservation Service, and the Soil Conservation Districts, taken under the wing of the Land Grant Colleges and the Extension Services.

The National Grange and the National Farmers Union and the National Council of Farmer Cooperatives, on the whole, favor the bill with minor amendments.

Inside the committee, Congressmen

Cooley, of North Carolina, and Hill, of Colorado, appear to be leading opposition to the Hope measure. Their bills, practically identical, were thrown into the wastebasket by Hope when he wrote his bill, on which hearings have been held the last 2 weeks.

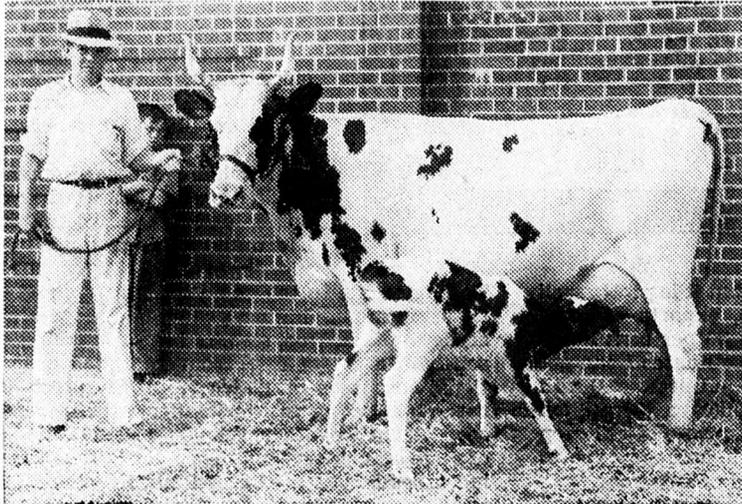
The oleo-butter battle—winding up in a complete victory for oleo, with repeal of the taxes on colored oleo—has

created a breach between the cotton and the dairy groups that it may take a major depression to heal. Certainly is not conducive to enactment of major farm legislation by this Congress.

Looks less and less like any long-range farm act will be passed, altho the Senate Agriculture Committee will report out the Aiken bill with considerable modifications. House agreement on the Hope bill is a bare possibility at this time.

A support-price extension, with con-

(Continued on Page 30)



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KANSAS STATE DAIRY ASSOCIATION
STATE CAPITOL — TOPEKA

You Can Starve On Three Full Meals

By ED RUPP

YOU can eat 3 square meals a day and still slowly starve to death. You can feed your livestock according to the best recommendations available and still be hit hard by the ravages of Bang's disease, mastitis, ketosis and half a hundred other afflictions. Why? What is causing all this trouble? Has it always been that way?

There are medical men and scientists today who believe degenerative diseases in man, and many of the diseases of livestock, are traceable directly to the soil. Depleted soils are blamed for malnutrition that creeps up on us so slowly it is not recognized as such. They believe there is only one major disease, and that is malnutrition. They believe all other diseases are due to this major disease.

It is just a little bit like this: You would not think of pouring gasoline into the fuel tank on your tractor day after day without checking the level of the oil in the engine. We are learning to pay close attention to the level of the 4 major plant foods in the soil, calcium, nitrogen, phosphorus and potassium. Now, in order to maintain good health, we must consider the availability of trace minerals in our soil.

Among the more important of those minerals are copper, zinc, manganese, magnesium, boron and cobalt. Considerable research has been done in recent years in various parts of the country which emphasizes their importance. A 3-pronged experiment is under way now in Southern Missouri. And Kansas agronomists are wide awake to the subject.

Kansas May Be Fortunate

Perhaps we in Kansas are more fortunate than some. Our soil is not so old, has not been cultivated so long. Consequently plant food has been depleted in a smaller degree. Also, rainfall is sparse over much of Kansas which undoubtedly has resulted in a smaller amount of leaching from our soil. Many of the original minerals and trace minerals still are there in sufficient quantities.

But there certainly are indications that some of our Kansas soils may be deficient in several of these important elements. It is quite generally conceded that cattle will do better in pastures either east or west of certain grass ranges in the state. Is it something that is lacking in the soil that causes it? There seems to be sufficient grass in that particular area but cattle just do not thrive as well on it.

And there are sections in the state where dairymen say if they do not feed minerals to their milk cows they had just as well sell out and quit.

The matter is being given attention at Kansas State College, Manhattan. Some basic research work already has been done and more is being done right now. Of primary importance is the detection of these trace minerals in the soil. R. A. Young, instructor in soils at

Kansas State, wrote his master's thesis on the determination of cobalt in soil. His thesis was written after he had done considerable work studying factors affecting the solubility and availability of cobalt. His work is only begun. He hopes to continue further on it this summer.

A new instrument called a flame photometer has been installed in the soils-testing laboratory at the college. It is being used to determine potassium, sodium, calcium, magnesium, manganese, strontium, lithium and barium. Working with this equipment, Dr. R. V. Olson, associate professor of soils, is particularly interested in the first 5 trace minerals listed. He also is studying means of improving the availability of iron in alkali soil.

In co-operation with the agronomy department, Dr. A. T. Perkins, soils chemist with the agricultural experiment station and professor of chemistry, is studying the relationship between magnesium and the availability and solubility of phosphorus in the soil.

Experimental work has been done on the boron content of alfalfa by the experiment station. And Dr. W. G. Schrenk has made a 4-year spectrographic study to show the relationship between mineral content of soil and the mineral content of wheat grown in those soils. In this study it seems apparent that availability of minerals in the soil also affects the protein content of the grain.

Some Localities Would Benefit

At present it does not appear that Kansas is in a critical position for lack of trace minerals. But it is possible that some localities would benefit economically in the near future when more is learned about the necessity of these elements. But, back to Missouri and what is happening there.

Since January of 1947, Dr. Ira Allison, Springfield, Mo., has been using trace elements in the treatment of undulant fever. In livestock the ailment is commonly known as Bang's disease. Doctor Allison believes fistula in horses is closely related, if not the same disease. But the point is, after 1 year of treatment with minerals, many of his patients claim marked improvement.

During a clinic held in Springfield last December, blood samples were taken from 69 of his undulant-fever patients. Some of these patients had been using the mineral treatment only 60 days, others 6 months. The blood samples were sent to Raymond Fagan, veterinary epidemiologist, Indiana State Board of Health. In attempts to grow cultures from these blood samples, 68 proved negative and only 1 positive. And the culture test is more certain than either test tube or plate detection.

There have been other results, too, which seem to uphold the theory that lack of these minerals in the diet causes malnutrition, which in turn is respon-

(Continued on Page 9)

F. F. A. Advisers and Officers



The 1948-49 Kansas Association of F. F. A. Advisers and Officers: Back row, left to right: L. B. Pollom, Topeka, state adviser; L. F. Hall, Manhattan, executive secretary; John Gignard, Effingham, president; A. P. Davidson, Manhattan, executive adviser. Front row: Bob Edwards, Emporia, vice-president; Don Stuteville, Parsons, secretary; Carldon Broadbent, Beloit, reporter; Lon Dean Crosson, Minneapolis, treasurer.

sible for other diseases. A traveling man in Southern Missouri told us he had been down last year with rheumatism, arthritis, or something closely akin to those ailments. His left arm was practically useless. He had to lift his left hand with his right to get it up to the door handle of his car.

This man started taking minerals last January and in 3 weeks noticed an improvement in his condition, he said. In mid-March he pumped his arms up above his head and down to his side without a sign of pain.

Direct treatment of human beings is one phase of the experiment. The second phase is mineral treatment of cattle infected with Bang's disease. This was started in January this year. But after only 2 months there seemed to be definite beneficial results from the treatment. More time will be required, of course, before results can be considered conclusive.

Here is the general plan of the second phase of the experiment: A special mineral treatment is being mixed by a feed dealer at Springfield. The ingredients are sulfates of manganese, magnesium, zinc, cobalt and copper, ammonium sulfate and a specified amount of anise and cane molasses to make it tasty for bossy.

The so-called trace elements supplied in the mineral mixture are in large enough quantities that it is considered a therapeutic dose. There is more than just a trace present. Treatment calls for 1 ounce of mineral a day for each 1,000 pounds of animal.

Iodine is not included in this mineral mixture. Altho iodine, too, is important to good health, a chemical reaction results if mixed in the same bag with these minerals. Then the iodine becomes unavailable. Get copper and iodine together and copper iodide results and you can do nothing about it, Doctor Allison points out.

He believes the best solution is to offer the iodine in the free-choice feeding of salt.

Trouble Hit His Herd

A few early results of this treatment already are available. A young dairyman near Springfield was having more than a little bit of trouble with his herd of registered Guernseys. Breeding troubles had hit nearly all of the 14 or 15 heifers and cows in his herd. He started feeding minerals in January. By mid-March all but one heifer appeared to be settled.

This man had a \$400 cow that had been bred 10 times. He was about to give up. Mineral feeding started January 7, 1948, and the cow was bred again January 20. In mid-March she appeared to be settled.

Blood and milk test records are being kept on this herd to check any changes in condition. Doctor Allison is doing this work in addition to his regular medical practice. Milk tests taken early in March showed negative. But blood tests made a week later still showed a positive reaction. However, the animals had been vaccinated with strain 19. It remains a question whether this treatment eventually will clear up the blood of these animals, too. Should it prove out, will vaccination have been outmoded?

Another man bought an old mare that was seriously infected with fistula. Three months ago the infection was draining on both sides and the hair was being eaten away. He tried the mineral treatment. In less than 2 months the sores were healed and the hair was beginning to grow back.

The third step of the experiments in Southern Missouri is somewhat less spectacular than the others, but may be a step in the right direction toward solving all these troubles at their

Installing Electricity?

Since electrification of farms in most communities is being pushed, the farm owner will find much valuable help in the booklet published by the Westinghouse Electric Corporation, entitled, "Farmstead Wiring." The information is written in popular language, and is accompanied by many illustrations and diagrams, making the subject matter easily understood. We have made arrangements with the publisher to fill all orders we receive. Price of the 44-page booklet, 25c. Please address Farm Service Editor, Kansas Farmer, Topeka.

source. The basis of this test will be a complete fertilizer, 10-6-4, with added amounts of cobalt, boron, copper, zinc, magnesium and manganese.

This fertilizer will be distributed to farm families living in 2 school districts in northern Douglas county, Missouri. They will use it to fertilize their garden plots and include the mineralized vegetables in their daily diet.

This spring Doctor Allison and a dentist made complete physical examinations of the school children in these 2 districts. The examinations will be repeated again next year to check any changes which may have taken place. The cycle will be repeated longer if necessary.

Altho special studies have been made relative to the presence of these minerals in our soil, Doctor Allison devised his own method to satisfy his curiosity. While on vacation trips, he and his companion, Earl Rothermel, have collected soil samples in various parts of the country. Their methods are quite practical. They take a sample from an old cemetery or school yard, and compare it with samples taken from cultivated fields just across the fence.

They have these samples analyzed by spectrograph and always find the mineral contents low in the cultivated fields.

At the same time they observe closely the people living in the different areas where soil samples are taken. From these observations they are able to make personal comparisons between soil fertility and the general health and vitality of the people.

There have been other experiments made in other sections of the country. Conclusions from these very nearly parallel those made by Doctor Allison.

Pupils Were Tired

In North-central Florida a condition was found where the soil lacked 2 of the trace elements, cobalt and copper. School authorities were alarmed because pupils seemed lazy. At the same time agricultural authorities were alarmed about the low quality of crops and livestock raised there.

They put two and two together, added 4 ounces of copper salt and 1 ounce of cobalt salt to each 100 pounds of cattle salt. Livestock improved, the manure containing the missing elements was returned to the soil. In turn crops improved. And children who ate the food and drank the milk also improved.

It has been found that manganese added to the poultry ration will prevent perosis. This disorder in poultry causes an enlargement and flattening of the hock joint. It is accompanied by the slipping of the tendon from its normal position.

It also has been found that manganese may play a role in the nutrition of swine. Stiffness or lameness was found to occur when pigs were fed rations low in the mineral.

In 1939 Dr. Irene Levi and F. H. Emery, both of Cleveland, made semi-quantitative spectrographic and spectrophotometric analyses of blood and pituitary samples from 50 cows infected with Bang's disease and 50 others not infected. The comparison showed an exhaustion of manganese, copper and cobalt, but not of iron, among the diseased cattle.

Better Cows Affected First

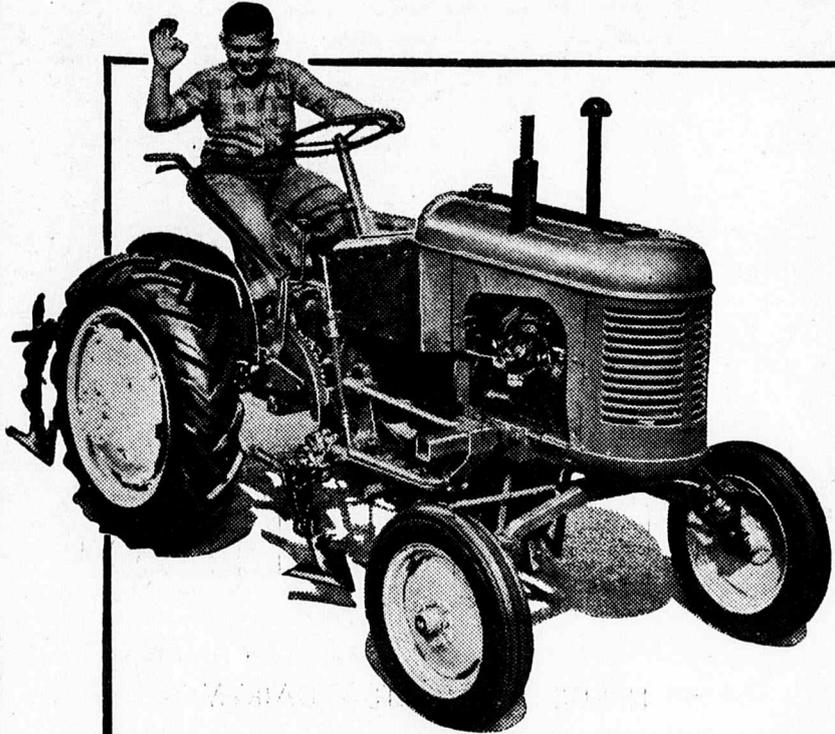
There are other reasons why it seems logical that malnutrition could be responsible for many of these diseases. Take the case of the dairy cow. It always seems to be the better cows that are affected first. Why? Because they draw more heavily on their supply of minerals to produce large amounts of milk. And a cow receiving a normal supply of minerals will give milk with about three-fourths pound of minerals in each 100 pounds of milk.

Perhaps that also explains why bossy seems to be more susceptible to Bang's than the male animal. But differences in feed also affect the health and vitality of the bull. Artificial breeding farms have found that different qualities of feed will make a very rapid change in motility of semen.

The problems of nutrition have not been solved herewith by one fell swoop. To arrive at the proper conclusions will require many years of study, research and experimentation. There may be pitfalls along the way, but that chance must be taken.

It will be a big job. It will require good erosion-control methods and water-saving farming to do it. And the time is now.

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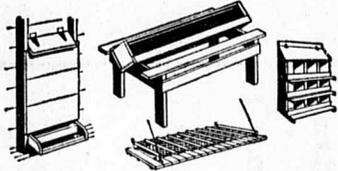
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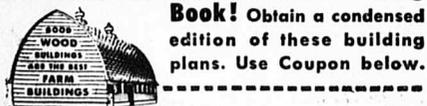
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Clyde Hill Farm Invites Holstein Folks

By CORDELL TINDALL

KANSAS Holstein breeders who visit Clyde Hill Farm, at Clyde, Mo., during the national Holstein-Friesian convention, May 31 thru June 2, not only will see one of the nation's top dairy herds, but will find impressive buildings in a location of unrivaled beauty. Let's hope the weather will be pleasant for your trip to this lovely spot.

Clyde Hill Farm is a part of the St. Benedictine Convent for Perpetual Adoration, is operated by the Benedictine Sisters. This convent was established back in 1875 and is located high on a hill that overlooks the surrounding fertile country. This in Nodaway county in Northwest Missouri, one of the richest agricultural regions of the state.

The religious community that is the convent is just about self-sufficient in producing food, and the Holstein herd was founded primarily to produce milk for the 175 to 200 Sisters of the convent. The purebred herd was established in 1918. The herd is milked 3 times a day and milk from 2 milkings is consumed on the farm.

Employed as herdsman is genial Joe Gemmeke, who has been around the farm since 1923, but who became herdsman in 1930. Under Mr. Gemmeke's guidance the herd has won national acclaim.

Here are just a few of the records chalked up by the herd:

The Holstein-Friesian Association has just awarded Clyde Hill Farm the title of Progressive Breeder for the seventh year. Clyde Hill Farm is the only Missouri Holstein farm to qualify more than twice, and the fourth farm in the United States to meet qualifications 7 times or more.

In 1946, the average milk production for Clyde Hill was the nation's high for Holstein herds of that size—from 31 to 50 cows. The Clyde Hill herd averages from 45 to 50 cows. In 1946 the average butterfat record was 590.4 pounds of actual fat, 16,245 pounds of milk testing 3.6 per cent. There were 39 cows on test that were milked at least 300 days and the average milking period was 314 days.

In 1947, a wet spring and a dry summer cut production to an average of 552.6 pounds of butterfat.

One of the great old cows of the herd, Zuba Amarilla King DeKol, now past 16 years old, has a lifetime milk record of 207,781 pounds of milk—10 lactations plus 232 days. Butterfat produced by this grand old cow has totaled 6,735.2 pounds. And the amazing thing about this record is that she was not on test as a 2- or 3-year-old.

This cow has 13 offspring, 10 of them bulls. If this cow had had the normal number of heifer calves the entire herd now might well be descended from the one cow.

This old cow is still going strong. On her high day in this last lactation she produced 101.9 pounds of milk and her high month totaled 116.2 pounds of butterfat. She was classified and made "Excellent." Two of her daughters already have a lifetime record of 160,000 pounds of milk each.

Responsible for the high position of the Clyde Hill Farm herd has been the unusual breeding program. The entire herd has been developed from the original cows purchased in 1918. A program of line breeding or inbreeding has been followed so that for the last 2 years even the bulls have been of home breeding. This is a home-bred herd.

The outstanding bull of the herd probably has been Rock River Hengerveld Al, an Illinois-bred bull who was a Gold Medal sire, Missouri's only bull to make this honor.

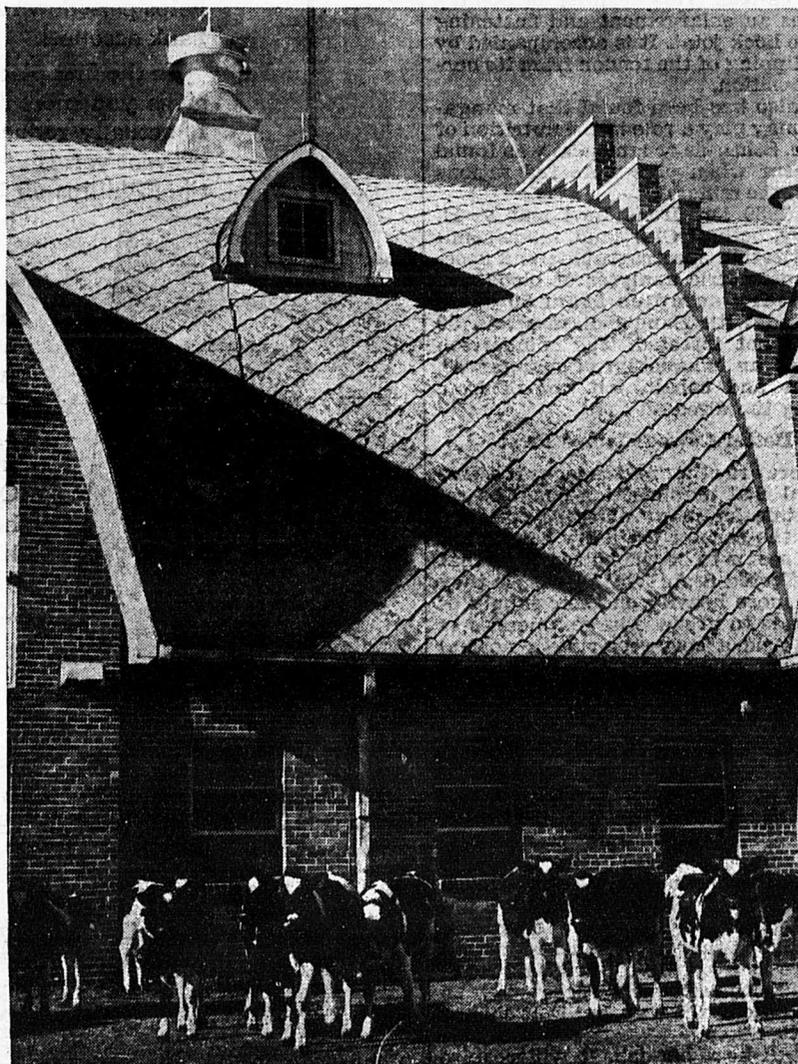
In the inbreeding program bloodlines have, of course, been intensified. Sires have been mated to daughters. At the farm now is a young bull that is an offspring from a brother-sister cross. This program has proved highly successful here and there has not been one case of a deformed calf resulting from inbreeding.

On the tour to the farm you will have a chance to see each of the families that has made the herd great. There are several families in the herd but, of course, they are all related in a way.

We're sure you won't want to miss the tour to Clyde Hill Farm.

Paraffin the Silo

I find that coating the inside wall of our silo with a thin coat of paraffin keeps the silage from freezing to the wall.—Lawrence Heuring, Scott Co.



A group of young heifers pictured in front of a part of the huge barns at Clyde Hill Farm. The farm will be visited on a tour by Holstein breeders in June.



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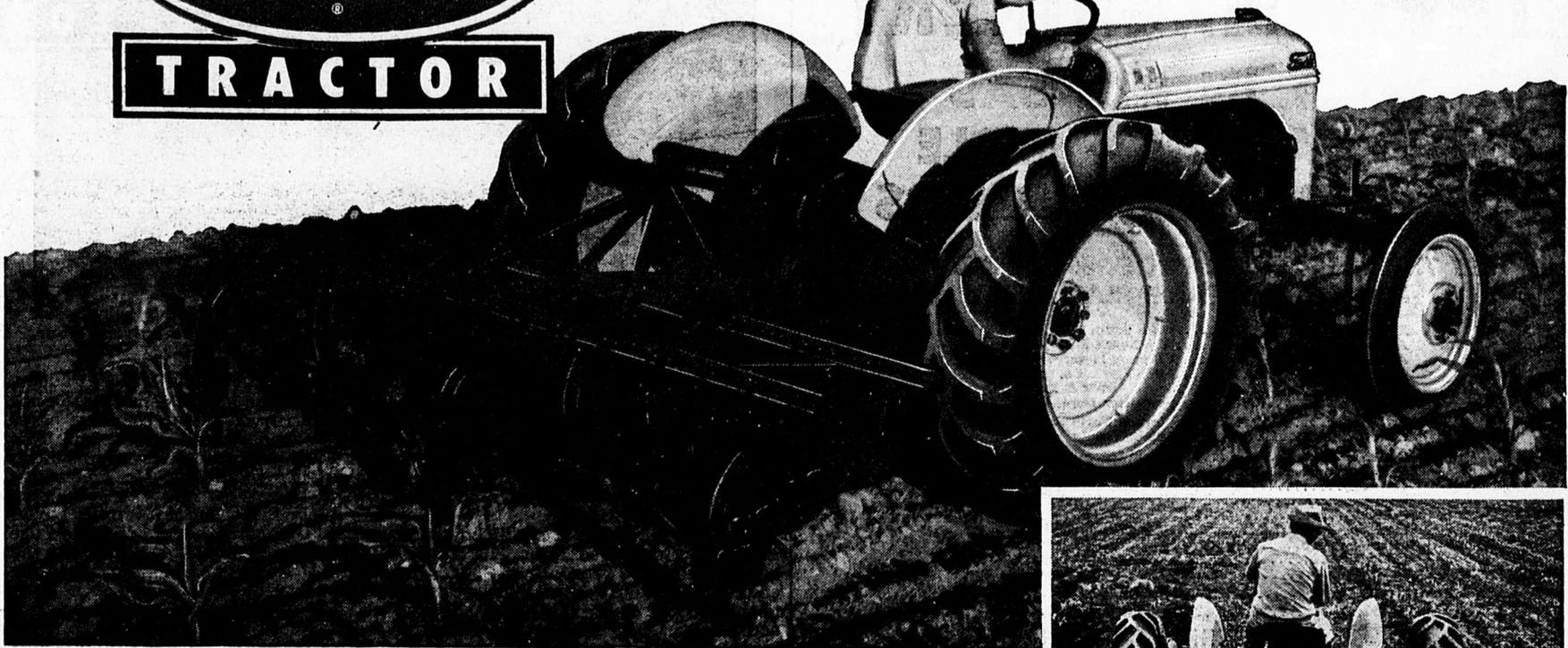
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1340 Burlington, N. Kansas City, Mo.
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RIGHT FOR CULTIVATING

... Ready for other jobs in a hurry!

SOME PEOPLE SAY, "cultivating is an easy job." But, as every farmer knows, cultivating can actually be the most tedious task on the farm.

What a difference when you cultivate with the Ford Tractor and a Dearborn Rear-Attached Cultivator!

First of all you can attach this cultivator to the Ford Tractor in 60 seconds or less! No bolts and nuts to fuss with, no parts to get mislaid over the winter. No cumbersome cylinders to mount, no hose lines or leaky couplings to bother with.

You merely move the Ford Tractor's Hydraulic Touch Control Lever to lower the cultivator

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Yes, there's a brand new cultivating experience awaiting you. To get it, right on your farm, just ask your Ford Tractor dealer for a demonstration.

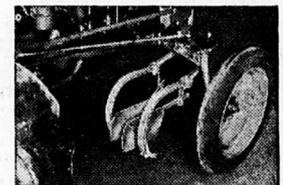
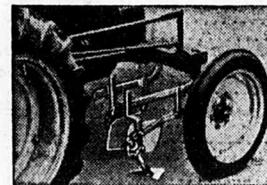
DEARBORN MOTORS CORPORATION • DETROIT 3, MICH.



DEARBORN CULTIVATORS for every row crop need

Take a good look at the Dearborn Rigid Shank and Spring Shank Cultivators shown above. It's hard to imagine a simpler design . . . just a strong steel frame onto which the shanks are bolted. There's practically nothing to go wrong. And, except for ground engaging parts—nothing to wear out!

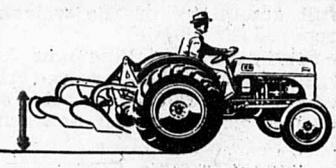
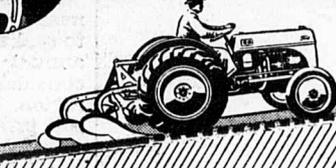
Shanks can be easily and quickly spaced to all row widths for corn, cotton, tobacco, potatoes and many other vegetables. There are many types of shovels, sweeps and shapes to choose from.



For those farmers who may prefer them, front end attachments are available in spring or rigid shank design. They are controlled hydraulically with the rear units which cultivate behind the rear tires and between the rows.

See Your Dealer. Ask your Ford Tractor dealer to demonstrate the Ford Tractor and Dearborn Implements. Ask him to show you his parts and service set-up. You'll see he is a good man to know better.

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 <p>LIFTS AND LOWERS AT A TOUCH You lift or lower a Dearborn Plow, or any other Dearborn Lift Type Implement, by merely touching the hydraulic control lever. No straining or tugging.</p>	 <p>AUTOMATIC DRAFT CONTROL Under uniform soil conditions, the selected working depth will be maintained automatically, even in fields with an irregular surface.</p>	 <p>AUTOMATIC DEPTH CONTROL Under reasonably smooth surface and practically all soil conditions, just set the controls once and uniform working depth is constantly and automatically maintained.</p>
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MORE INCOME PER ACRE

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**BUILT IN KANSAS
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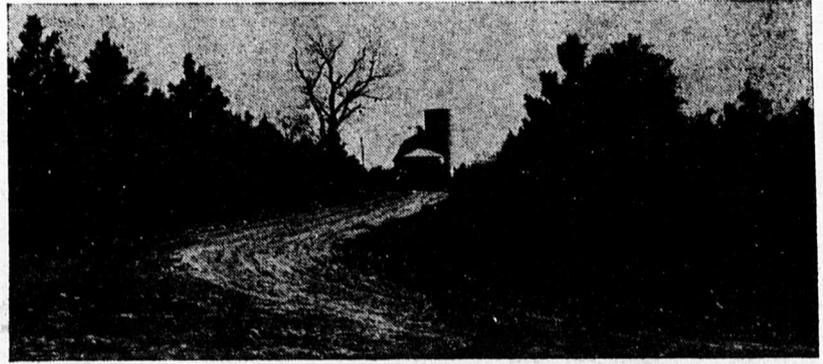
PRICE BROS. EQUIPMENT, INC.

Farm Equipment Distributors

WASHINGTON AND ORME—WICHITA, KANSAS

“Worth More Than Money”

Is What Mr. McFadden Says About His Trees



A curving service entrance to the McFadden feed lots is beautified by windbreak plantings on both sides. The barn and silo can be seen at the extreme rear.

THERE wasn't a switch big enough to whip a boy with when my father settled here in the early days," says Cecil McFadden, of Stafford county. Now, the McFadden farm is covered with thousands of trees, many of them varieties never before grown in that section of the state.

Ever since he was a small boy Mr. McFadden has loved trees. His father and 3 brothers settled in Stafford county in the 1870's when there was nothing but prairie grass as far as they could see in any direction. All 4 men later set out timber claims and this timber still stands.

However, the rarity of trees in his area probably gave them added beauty in the eyes of young McFadden during his boyhood days. When he was old enough to go to college at Kansas State, in Manhattan, he worked on the old nursery farm and added to his knowledge of trees. After graduation, he served as county agent in Lyon county for 6 years, before going back out to Stafford county to take up farming following the death of his father.

Having spent several years around Manhattan and Emporia, where trees abound, Mr. McFadden was determined to have more than just a timber claim.

He started planting trees on his farm in 1925, and most of the present windbreaks on the farm were planted in the late 1920's, long before the government shelterbelt program was started.

As a hobby, he has succeeded in growing a great variety of trees on his farm. Western yellow pines predominate, but he also has many Austrian and Scotch pines.

Oaks Are Favorites

White and bur oaks are favorites with Mr. McFadden and many of these are thriving on the farm. He also has pecans and walnuts and Colorado silvers for ornament. He recommends only the native pecan for Kansas. The paper-shell pecans won't live here.

Chinese elms are taboo with Mr. McFadden but he does have many American elms and hackberries. "The American elm and the hackberry are 2 of the most practical trees Kansas farmers could have," he believes. They are both long-lived and do very well.

Some of the unusual trees to be found on the McFadden farm include bald cypress, American linden, pin oak, hard sugar maple, hickory, red bud, persimmon, magnolias, Colorado spruce, cut leaf birch, golden weeping willow, tulip tree and red oak.

In order to appreciate the unusualness of the McFadden trees you have to realize that his farm is in the 25-inch annual rainfall belt. Of this amount, considerable is lost by runoff or evaporation. Actual rainfall going into the soil probably amounts to less than 10

inches a year, reports Mr. McFadden.

Trees on the McFadden farm are not given extra water but they are carefully cultivated and cared for. This spring 3,000 additional trees are being set out in windbreaks. Mr. McFadden doesn't know how many trees he now has on the farm, but the number would be well up in the thousands. There are lines of trees along both sides of the highway running past the farmstead, other lines on both sides of a long, winding service drive thru the farmstead, windbreaks on the north, west and south of the feed lots, and others along fields and around ponds. These are in addition to the grove of mixed trees all over the farmstead.

Interest in trees on this farm is not limited to ornamental and shade varieties. Mr. McFadden also has a fair-sized orchard. A quick run thru this orchard disclosed 6 or 7 varieties of apples and 3 or more varieties each of plums, peaches, pears, apricots and cherries.

Takes Work

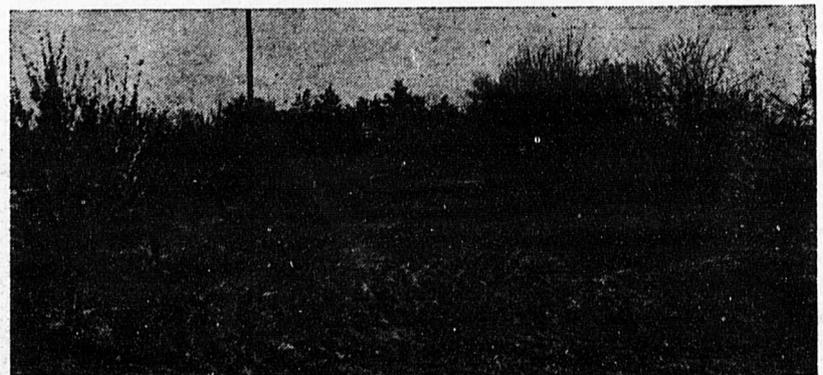
These trees take a lot of work and we asked Mr. McFadden whether they are worth the effort. "They are to me," he replied. "I was born on this farm, which now is 71 years old. I hope to pass it on to my son, Harold, when he is thru school at Kansas State. Naturally, these trees have cost me a lot of money but they also have given me my greatest thrill. Too many people these days think nothing is worthwhile unless it makes money. My trees have given me more satisfaction than all the money I ever made farming."

It seems to the outsider that Mr. McFadden has his hands full looking after so many trees. Apparently it doesn't take all his time since, beginning in 1941, he started making other improvements to the natural beauty and enjoyment of the farm.

The upper reaches of the Ninnescah river cross the McFadden farm, leaving several large boggy areas that cannot be farmed. Mr. McFadden conceived the idea that some of these boggy areas could be transformed into lakes, since the areas are spring-fed.

Bulldozers were brought in and 2 lakes have been completed. The first one has about 4 surface acres and the second, completed this year, has 10 or 11 surface acres. They have been stocked with fish, are deep enough for boating and swimming, and have attracted much wildfowl. The McFadden farm is on the direct line of flight for migrating ducks and geese and these take full advantage of the welcome mat prepared for them.

The first completed lake now has many good-size trees around the banks. Part of the 3,000 trees being set out this year go around the new lake.



The McFadden orchard was just beginning to bloom when this picture was taken. Note careful cultivation, which is one of the secrets of successful tree plantings.



THE "SKYLINE" WAY OF MAKING HAY

★ ★ IS THE EASY WAY TO HARVEST

The Skyline far outsells any other field harvester in the world today because it's a greater bargain. It will do more for the average farmer, under average conditions than any field harvester manufactured. This amazing self powered harvester will pick up all the alfalfa, clover, etc. and chop it to desired length for cattle feeding, silo filling or dehydration.

Easily changed to row crop harvester, it will cut and shred for ensilage any row crop at the rate of about 14 tons per hour. Feeders claim that ensilage made the Skyline way is better than that made by any other method. Short crops or tall ones, it handles them all with ease.

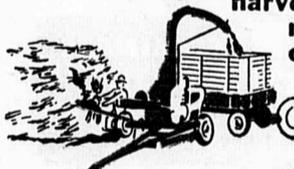
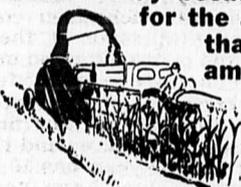
With a Skyline blower and two or three Skyline trailers there is no lost time. Many days can be saved in silo filling.

Farmers and feeders have always wanted a field harvester that had year around use. Skyline is the answer because it will process forage . . . green or dry . . . for haymow, silo or dehydrator. Then it may be converted to a row-crop harvester for cutting and shredding corn, milo, kaffir, etc., ready for the vertical or trench silo. After this, the same machine is easily converted to a portable grinder.

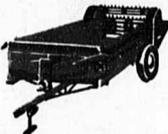
Of course you need not buy the attachments if one machine will fill your needs. The Skyline is sold as a complete unit for either row-crop or forage. Attachments may be added.

If you are harvesting any forage or row-crop, in dry farming or irrigated sections, see your Skyline dealer. Wherever livestock is fed for profit you'll find Skyline Sales and Service.

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SKYLINE SPREADER



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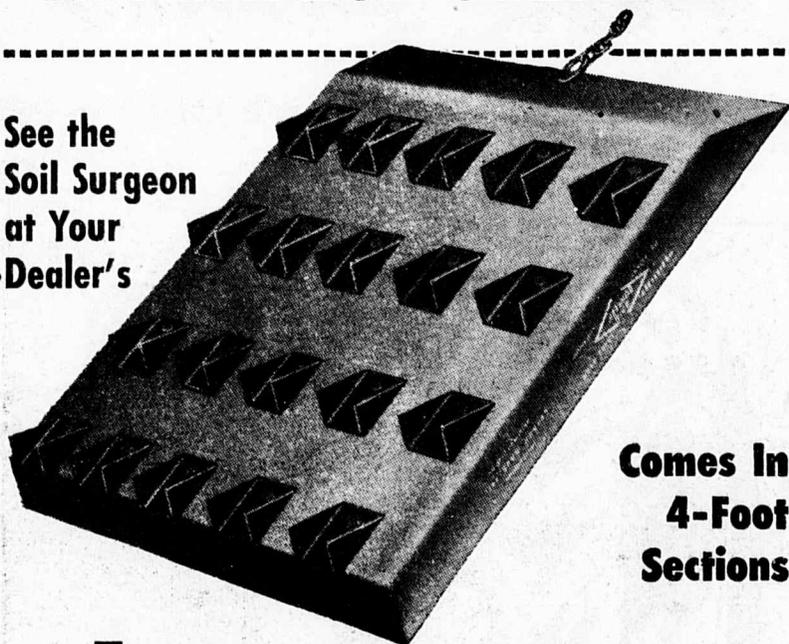
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See the Soil Surgeon at Your Dealer's



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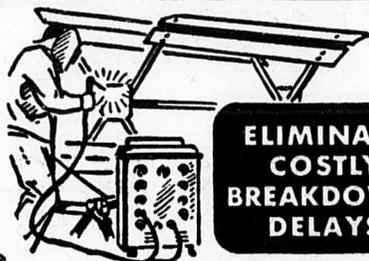
Twice over any plowed field . . . and you've got a seedbed four to five inches deep that's smoother than you can get with any other implement—or any combination of other implements! Use it alone for a four-foot sweep or fasten sections side by side to cover more ground. Preserves moisture in soil . . . doesn't bring dormant weed seeds up to germinating level. Ideal crust breaker. It's new, simple, rugged. See the SOIL SURGEON now and be convinced!

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Forney "PIONEER IN FARM WELDING"

Big Time for Pilots

Efficiency Race Will Open Kansas Flying Farmers Convention



Earnest Bressler, Bird City, is a good membership worker. Here he is shown with his plane which carries the sign, "Join Kansas Flying Farmers." He made the sign with brightly colored tape. Mr. Bressler, with nearly 50 memberships to his credit, is the state's outstanding candidate to win the expense-paid trip to the national convention in Ohio next September.

IT HAS been a big year for the Kansas Flying Farmers Club. Its second. And climax of the year will be the third annual convention of the organization at Wichita Municipal Airport, May 25 and 26.

The convention is scheduled to begin with a banquet meeting at the Broadview Hotel, Tuesday evening, the first day. The annual business meeting and more entertainment events have been planned for the second day at the airport. But preceding all this will be an efficiency race over a 135-mile course out of Hutchinson on the morning of May 25.

This race has been accepted with more widespread enthusiasm than any other single activity which the club has sponsored to date. And with good reason. It does not call for tricky maneuvers, which makes it safe. It does require membership participation. And that calls on the competitive spirit of the flyers. It is entirely possible, weather permitting, to have 75 to 100 or more planes taking part in the race. Last month Ailiff Neel, Windom, member of the convention committee, reported 75 flyers wanted to enter the race. And not all cards had been returned.

In charge of the race will be Harold Harrison, Valley Center. Planes will begin taking off at 9:30 in the morning. Take-off deadline will be 11 o'clock. To have a chance at top position, fuel tanks must be full at take off. Pilots may find it convenient to have a bottle of gasoline ready to top off the tanks before moving up to the starting line.

Flyers will be briefed on the course long enough before take-off time so they can draw their lines on Salina charts and study check points along the way before they start.

Judges will be stationed at each of the 2 pylons on the triangular course. Contestants will need to fly low enough around these pylons so judges will be able to read the contest numbers which will be painted on the fuselages. After getting the signal of recognition,

planes will continue on to the next pylon and then back to Hutchinson.

At the end of the run, gas tanks will be topped off again (pilots please do not use gas bottles here), and the amount used will be recorded on the entry blank for each contestant. The final score will be determined 50 per cent on gas consumption and 50 per cent on time. And that will call for good navigation and good judgment on the part of the pilot around the course.

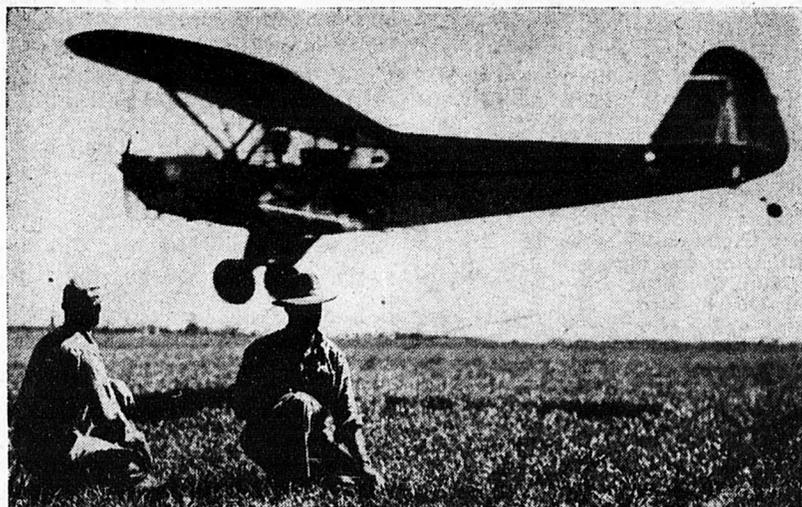
The race will be divided into classes according to makes of planes. Aircraft distributors and dealers in Wichita are offering trophies for the individual classes. And Kansas Farmer will give a trophy to the grand champion, the contestant who is the most outstanding individual in his class.

But looking back again, there are several things which have helped to make it an outstanding year. Membership is one thing. The club has grown to more than 330 active members. One reason for this growth is the work of the membership committee headed by Dan Roberts, Plains. Working with him were Ernest Bressler, Bird City, and J.W. Brewer, Holyrood. Mr. Bressler has put on a 1-man show during the year and is the state's leading contender for the expense-paid trip to the national convention in Ohio this summer. That trip is being offered by the national association to the man who turns in the most memberships for the year. It looks like he will have nearly 50 memberships to his credit by convention time.

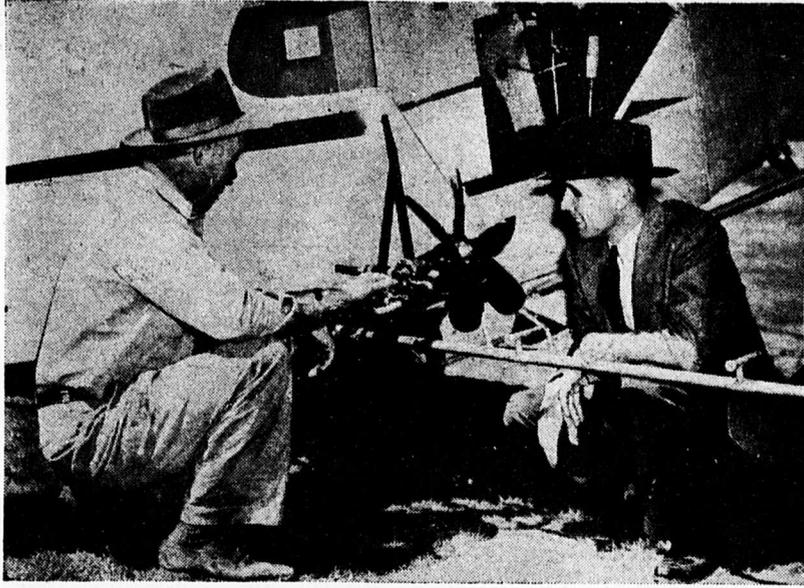
And 2 nationally prominent gentlemen were accorded honorary memberships in the club during the last year. One of these was President Harry Truman. He was made an honorary member when George Galloway, WaKeeney, president of the club, was in Washington, D. C., on business last year.

The other honorary membership was presented to Senator Arthur Capper at the Topeka Municipal Airport. It was Kansas Farmer, one of his farm

(Continued on Page 15)



This action picture of spraying wheat by air was taken on the William Janssen farm, McPherson, by Ed Rupp of Kansas Farmer's editorial staff. Pilot of the plane is Don McAlester, McPherson. On the ground helping him line up are John Howard, left, Great Bend, now stationed in Salina with the army, and Mr. Janssen. Under ordinary conditions the plane just skims the surface of the field. With a heavy load that requires careful flying.



In this close-up view of the spraying plane, William Janssen, left, explains the working principles of the equipment to Ed Rupp, Kansas Farmer, Topeka. Power for the pressure pump is supplied by the fan shown in the photo.

publications, that ignited the fuse which started the Kansas Flying Farmers Club on its way to be one of the best clubs of its kind in the nation.

In place of being limited within the state's boundaries this year for the annual spring tour, the Flying Farmers skipped over to Lebanon, Mo., April 24, to attend the Missouri club's annual meeting. It was another first for this year. Altho high winds and bad flying weather kept many from attending, nearly 30 Kansas planes landed at the Lebanon field.

Air marking has received the personal attention of the Flying Farmers this year, too. A group of Flying Farmers from the North-Central section of Kansas gathered at Wakefield, April 27, to paint an air marker on the roof of the new high-school building there. Flying Farmer Bud Elkins, Wakefield, had co-operated with the Lions club of that town in making preliminary arrangements for the marker. Wakefield lies on the edge of the new north-south Skyway 51 which cuts across Kansas.

Those participating in the marker-painting party at Wakefield included Mr. Elkins, Ellis Dinsmore, Clay Center; Otis Hensley and Jim Hurley, Glasco; Jimmie Betz, Asherville; Charles Howes and Ed Rupp, both of Topeka.

The picture on the cover shows the "W" in Wakefield being painted by Mr. Elkins, at the bottom, and Mr. Betz.

But when it comes to painting air markers, Charles Basore, Bentley, takes the prize. He has put a marker in

his home town, has been instrumental in getting another marker at Haven. In addition he laid the groundwork for other markers in the vicinity, Halstead, Sedgwick and Mt. Hope.

At one time the word "fad" was tagged onto the idea of farmers flying planes. That word has been erased. In addition to transportation, the plane is becoming another farm tool. Approximately 6,000 acres of lespedeza were seeded in the bluestem pastures of Chase county this spring—by airplane.

And spraying of wheat fields with 2,4-D to kill weeds is being tried in many sections of the state. Air spraying can be done whether ground is wet or dry.

Much remains to be learned about spraying wheat fields. But a lot of experimental work is being done this year. William Janssen, McPherson, has rigged up spraying equipment on one plane. He is leaving test strips to see how much benefit he receives from the spraying. Results of spraying from other men should become available after harvest, too.

Apparently the time when wheat can be sprayed safely is short. That fact alone makes large-scale commercial operation unlikely. So it will be up to individual farmers, or at most small groups of farmers, to co-operate in air spraying.

Yes, it has been a big year for Kansas Flying Farmers. And they will have an opportunity to compare notes and talk the whole thing over when they get to Wichita.

Who Won At Fort Hays

SOME 1,500 4-H Club members and Vocational Agriculture students drove to the Fort Hays Experiment Station grounds for this year's annual Round-up, April 23.

Results of the various judging contests were as follows:

Vocational Agriculture

GRAIN JUDGING—Belleville High School, Carl H. Beyer, coach, 1st; Alton Rural High School, Everett F. Yoxall, coach, 2nd; Glasco High School, H. W. Schaper, coach, 3rd. Robert Rizek, of Belleville, was high individual, with Charles Sanford, Belleville, 2nd, and Richard Boland, Alton, 3rd.

LIVESTOCK JUDGING—Stockton, 1st; Alton, 2nd; and Sheridan Community High School, Hoxie, 3rd. Daryl Smith, Alton, was high individual, with Erle Muir, Stockton, 2nd, and Vaughn Miller, Oberlin, 3rd.

4-H Club Contest

GRAIN JUDGING—Sumners 4-H Club, Osborne county, 1st; Willowdale 4-H Club, Republic county, 2nd; and Bow Creek 4-H Club, Graham county, 3rd. The winning club was coached by Mrs. Tom Hale, Alton. High individual in the grain-judging contest was Kenneth McBurney, Hill City 4-H Club, with Mart Cooley, Sumners 4-H Club Osborne county, 2nd; and Bill Worcester, Bow Creek Club, Graham county, 3rd.

LIVESTOCK JUDGING—Kinsley Live Wires, 1st; Jayhawk 4-H Club,

Cloud county, 2nd; and Go Getters, Kiowa county, 3rd. Ronnie Smith, of the Wayne Workers Club, Edwards county, had a perfect score of 400 to win individual honors. Billy Joe Hawkins, New Eden Club, Comanche county, was 2nd; and Raymond Shuck, Go Getters Club, Kiowa county, 3rd.

HOME ECONOMICS—Bow Creek Club, Graham county, 1st; Happy Valley Club, Comanche county, 2nd; and Saline Valley Club, Russell county, 3rd. Nola Bane, of Rooks county, was high individual, with Marjorie Hise, West Paradise Club, Rooks county, 2nd; and Betty Perkins, Hi-Flyers Club, Ford county, 3rd.

1,000 Will Attend

More than 1,000 4-H Club members from over Kansas are expected at the 24th annual 4-H Roundup on the Kansas State College campus, June 1 to 5, J. Harold Johnson, state club leader, announces.

Classes, recreation and tours are planned for the visitors. They will live in campus housing, just vacated by college students attending Kansas State's spring semester.

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Baking soda is excellent for cleaning enamelware. Dampen a soft cloth and dip in the soda and rub the enamelware stains. Soda cleans without scratching or making the ware turn yellow.—Mrs. C. C.

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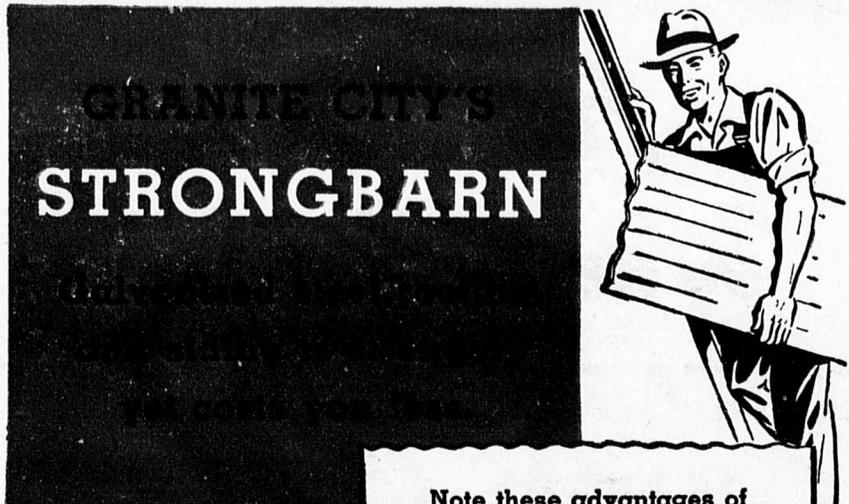
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Governor Names Special 4-H Committee

GOVERNOR Frank Carlson has named a committee of leading Kansas business men to promote our 4-H Clubs. At a luncheon he gave in Topeka last week, busy men from all over the state praised the accomplishments of 4-H Clubs, and agreed to serve on a permanent committee that will encourage stronger citizenship, and aid in making 4-H Club work available to more Kansas youth.

Out of the larger luncheon group Governor Carlson named a steering committee to direct the efforts of the business men into productive channels. This steering committee includes: W. Laird Dean, Topeka, chairman; Ernest Barry, Newton; H. S. Blake, of Capper Publications, Topeka; Willard Breidenthal, Kansas City; Bert Culp, Beloit; Art Kelly, Wichita; and J. J. (Jerry) Moxley, Council Grove.

Coming from Chicago as a special speaker at the Governor's 4-H luncheon was Guy Noble, managing director of the National Committee on Boys and Girls Club Work. This national committee lends support to 4-H Clubs in a national way, much as this newly organized state committee will back our Kansas farm boys and girls. It is composed of top business executives from many different lines of work. Always heading the list as honorary chairman is the President of the United States.

In Kansas, when folks think of boys and girls club work, they just naturally think of the man who gave it a great start with his pig, poultry, calf and crops clubs. That man is Senator Arthur Capper, who lent more than \$100,000 to farm boys and girls so they could have projects of their own.

And when Guy Noble came to Kansas last week to talk about 4-H Clubs, he could tell a great deal about the successful efforts of Senator Capper on a national scale. Paying high tribute, Mr. Noble explained that Senator Capper

joined the National 4-H Committee more than 25 years ago. And he told of the pleasure of working with Senator Capper in Washington getting the Capper-Ketchum act thru Congress so 4-H Clubs would have Federal support.

H. S. Blake, Jerry Moxley, President Eisenhower and Dean L. C. Williams, of Kansas State College, all spoke the thoughts of the entire group when they praised the 4-H Clubs for their ability to build strong, sturdy citizenship. And the large army of volunteer leaders were not forgotten. Without them the success of 4-H work would be limited.

But 4-H Clubs do have room to grow. With 30,000 members now, it was suggested by Governor Carlson that a goal of 100,000 be set. J. Harold Johnson, state club leader, termed the organization of this committee "one of the most significant steps in the long history of club development."

Worth a Billion

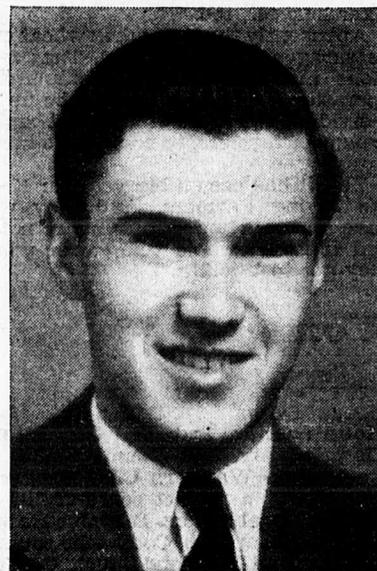
The soybean has grown into a billion-dollar industry within a few years, states Whitney Eastman, president of the chemical division of General Mills. He said the nation is producing about 200 million bushels annually.

A prediction that soybeans will continue to lead the nation's oilseed industry and will expand and develop during the next 20 years was made by Mr. Eastman. "My optimism," he said, "is based on the fact that the soybean and its products fit into our agricultural and national economy better than any other oilseed crop."

Sparkling Porcelain

When cleaning porcelain, I sprinkle with scouring powder and then wet the area with a cloth wrung out in liquid bleach. This method leaves the sink and tub sparkling clean.—Mrs. Fred Fienup.

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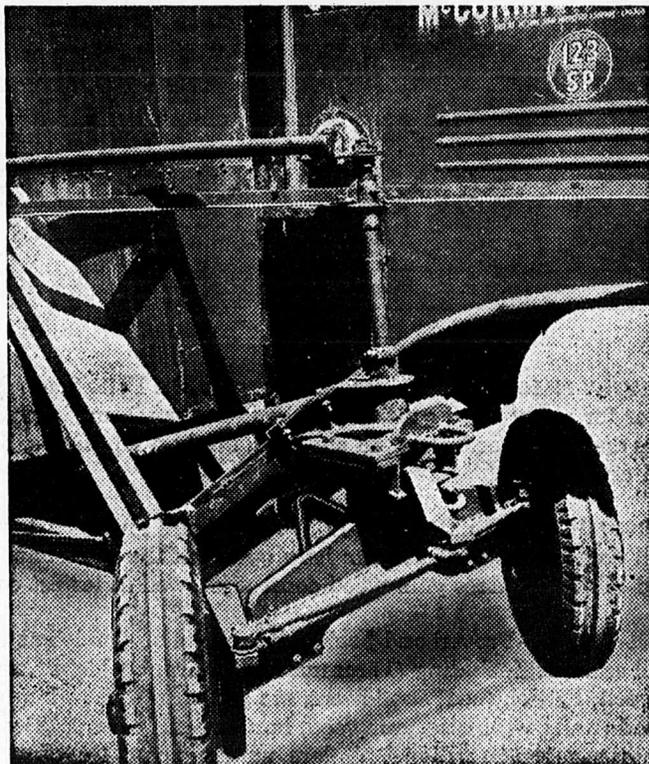


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Chicken-of-Tomorrow To Be Selected June 24

LEADERS in the nation's 3-billion-dollar poultry industry are eagerly awaiting results of the national Chicken-of-Tomorrow contest, which will end at Georgetown, Del., June 24.

Forty flocks, representing some of the nation's foremost producers, are being raised at the University of Delaware's substation in the finals of a 3-year program to improve meat characteristics of the barnyard fowl.

The whole project was started back in 1945 when poultry experts and U. S. Department of Agriculture leaders, with the sponsorship of A & P Food Stores, designed the program to encourage breeders to seek meat-type improvements. A series of state and regional contests were conducted throughout 44 states and 40 finalists were selected from the winners.

Included in the group is Gus Liedtke, of Glasco, Kan., who is represented by a flock of White Rocks.

Mr. Liedtke has been searching for a better meat-type chicken for the last 9 years. He is clerk of his local township board whose members are elected by vote. He has co-operated with Kansas State College in breeding chickens, and his farm facilities can accommodate 1,000 layers and flocks of broilers.

Mr. Liedtke claims that "the Chicken-of-Tomorrow program has brought home to most of us in the poultry industry that there is a need for a better meat-type bird."

During the last week in February, each of the finalists shipped 720 eggs to the contest hatchery in Easton, Md.

The chicks were hatched on March 22, and 400 selected from each batch for shipment to the raising site in Georgetown, Del. The birds were wingbanded and each flock assigned to a special pen to be reared under identical conditions.

Contest Chairman H. L. Shrader, of the U. S. D. A., and Prof. A. E. Tomhave, of the University of Delaware, are supervising the flocks. Daily records on mortality and feed consumption are being kept by Karl Seeger and William C. Lucas, substation custodians.

At the 5-week stage, Shrader disclosed that the mortality rate was extremely low. Previously he had announced that results of a 10-day feathering check had proved satisfactory.

The contest committee plans to publish additional scientific data on the comparative growth at the contest's close. Included will be statistics on hatchability, feed consumption, egg production of the parent flocks and a break-down analysis of mortality cases.

The birds will be shipped to Pocomoke City, Md., and placed in special feed batteries for 3 days at the end of the 12-week growing period. On June 21, they will be dressed and judging will be completed.

Hundreds of poultry people plan to be on hand when A & P's top \$5,000 award is presented to the winning breeder at a gala field day in Georgetown, on June 24. Most of the competing finalists and their families will visit the raising site and enjoy sight-seeing along the Del-Mar-Va broiler belt.

Headquarters for the vacationers will be at nearby Rehoboth Beach. Mayor C. B. Shaffer and the Rehoboth Chamber of Commerce will welcome Chicken-of-Tomorrow visitors to the seaside resort. Adequate hotel and facilities will be available for tourists.

Wheat Paid Well

Favorable weather conditions made the 4-H Club wheat project by far the most valuable crop project in 1947, and second only to beef as the most valuable single project for 1947, say state 4-H Club leaders.

Wheat acreage was about 25 per cent above 1946. A profit of \$788,949 was shown on wheat projects for club members last year, or almost twice that for 1946. Nearly 1,900 members in 101 counties carried wheat projects in 1947.

Well-Balanced

Two Kansas breeders recently have received Progressive Breeder's Certificates from The Holstein-Friesian Association of America. Jake Zarnowski, of Newton, received the award for the fourth time, and M. A. Shultz & Son, Pretty Prairie, for the second consecutive year. The award is made for a well-balanced herd-improvement program developed over a period of years.



Gus Liedtke, of Glasco, Kan., gives his White Rock chickens plenty of grain in his efforts to breed superior meat-type birds. Mr. Liedtke is represented by a flock of 400 chicks in the national Chicken-of-Tomorrow contest being conducted in Georgetown, Del. Winners will share \$7,000 in A & P Food Stores' awards on June 24.

High in All Events



E. Lee Raines, right, Olathe, receives the Agriculture Education Club plaque award, given for the high chapter in all F. F. A. events in the state contests, held at Manhattan. Presenting the plaque is Wyman White, president of the Agriculture Education Club.

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Co-eds From Other Lands

Study at Kansas State

By Oris Cantrell

HOMES in China, Brazil, Panama and Canada one day will feel the influence of U. S. A. training. Girls from these countries are now studying home economics at Kansas State College.

Angelina Lepori, a vivacious brunette from Panama City, was sent here by her government on a scholarship. At the end of this month, she will go back to her home with a bachelor of science degree, and will teach homemaking in a Panama City high school.

"I had wanted to study in a Spanish-speaking school because I was frightened to think of learning a new language," she confessed. "But I'm glad I came. The horizon opens when one knows 2 languages."

Her fluent English was hard come by. During her first 2 years she often spent a 22-hour day. Small wonder her sophomore year ended in a hospital! Liking our food, too, had to be learned. Meals in Panama are served in courses beginning with soup. Meats are much like ours. Vegetables are the same as ours plus plantano, something like a banana, and a squash which is a cross between a sweet potato and a pumpkin. Favorite desserts there are fresh native fruits. Coffee is served with hot milk after the meal.

"I miss my steak and liver for breakfast most of all," she sighed. "You see, we have so much malaria and anemia that we eat meat 3 times a day." At home Angelina has balmy days and finds the blustery Kansas weather a little rough. But her first snow was thrilling. She was even excused from a class to frolic in it.

"Boys and girls don't go out just in couples," she explained when asked about dating in Panama. "We go in groups. Only the very young, however, are chaperoned." Dances? Her black eyes sparkled. "When we dance, we dance. Here you dance a little and then you make a joke."

Last January, Ivone Henriques left Brazil on a warm summer day. In a few days she was in Kansas in the midst of a blizzard. This sudden change was too much for the slender home economics teacher from the Isabella Hendrix Junior College. So she was sick-a-bed for awhile.

"Isabella Hendrix is the only school that trains home economics teachers," explained Ivone. "I was one of the first to train in the country." Few textbooks in any field of home economics are written in Portuguese, the language of Brazil. Ivone is particularly interested in institutional management because schools in Brazil have no cafeterias.

Otherwise, schools there are much like ours. But

there the government makes the program and the schoolma'am must follow it. Four-year colleges are co-educational but elementary and high schools separate the boys and girls.

Ivone, too, found our food strange and . . . yes, a little flat and uninteresting. Brazilians season their food more than we and use much more fat. They eat most vegetables raw except tomatoes and black beans which they cook with rice. Dessert is always fresh fruit . . . bananas, oranges, avocado, or that sweet, luscious jobaticaba.

Homemakers in Brazil don't have to go to a distant market for their food. The markets move from street to street on a regular schedule for the convenience of the customer. Life is much easier

and more quiet in Brazil than here, Ivone feels, except in the biggest cities and coast towns where people hustle and bustle just as we do here. "Brazil isn't the backward country that most North Americans believe," she said. "Even the poor have radios and refrigerators. We have good theaters and movies, too." Ivone has learned that not all North Americans are rich as is commonly believed in Brazil.

Pe Sin (Bessie) Su, a little Chinese girl with laughing eyes, came to Kansas State last fall as a graduate student. She has a bachelor of science degree in chemistry from Hwa Nan College, a Methodist missionary school in Foo Chow. She is the daughter of a Methodist minister, a graduate of Boston University. He must have determined early that Pe Sin was to study abroad, because he christened her Bessie in addition to her Chinese name.

During the war, Hwa Nan College was moved 100 miles up the river to Pe Sin's home town, Nanping, just in time to miss the Japanese invasion. Nanping was bombed 3 times, but suffered little damage. A teacher was inconvenienced once because she had just started an examination when the siren sounded. Everyone rushed to the dugouts . . . then the teacher had to make new questions!

Classes were held at unusual hours . . . from 6 to 9 o'clock in the morning and 3:30 to 7 o'clock p. m. During those hours the Japanese couldn't fly over Nanping because of the heavy fog there. A queer schedule was not the only inconvenience, tho. Rice was so scarce they had only 2 meals a day. Several times the entire village was abandoned and all went to the nearby forest. They took food and spent the day and returned at night. "It was like a picnic," smiled Pe Sin, "except for the danger."

She is eagerly awaiting the day when she can go back home, see her family and begin teaching home economics at Hwa Nan College.

Making radio broadcasts on food preservation, educating Chinese homemakers for the National Aid Council, discovering some of China's food needs for UNRRA, teaching home economics, doing research on the soya bean, assisting in tuberculosis clinics and working for the church . . . all these activities have been packed into the last 5 years of Te Chin Chow's life.

She was slated to graduate from Yenching College in Peiping, China, in 1942 . . . but came December 7 and Pearl Harbor. Japanese soldiers wouldn't let anyone leave the campus. Two days later they ordered all Chinese out. Te Chin was allowed to enter a Catholic, non-American university to finish out the term. But graduation was put off until Yenching reopened in 1946. During the remainder of the war, she was with a foods-research laboratory in Shanghai studying the soya bean. Later, while working with the Nutritional Aid Council, she gave lectures on the use of bean-soup powder, a relief food from UNRRA. Young children with tuberculosis were given skimmed-milk powder. She taught mothers how to use and store it.

After the war, UNRRA asked her to help make a food survey in her [Continued on Page 19]



Pe Sin Su, right, stops studying long enough to chat with Te Chin Chow in a corner of the lounge of Calvin Hall. Both are from China.



Jean Olliver, of Vancouver, British Columbia, Canada, sets the dials on the fadeometer, a machine to test the color fastness of fabrics.

Angelina Lepori, of Panama City, left, and Ivone Henriques, of Brazil, doing their home work in the reading room of the college library.



The Recipe Corner

Pork Chop Dinner

6 pork chops	¼ cup green pepper, chopped
¾ cup uncooked rice	¾ cup celery, chopped
½ cup chopped onion	2½ cups canned tomatoes
1 teaspoon salt	

Brown pork chops in frying pan, season with salt. Put pork chops in casserole. Mix all other ingredients and pour over pork chops. Add more salt if desired. Bake in moderate oven (350° F.) for 1 hour. Ground beef patties may be substituted for the pork chops.—Mrs. J. J. Y., Colorado.

Butterscotch Pie

This recipe makes 2 small pies:

2 cups brown sugar	¼ teaspoon salt
6 tablespoons flour	1½ tablespoons butter
2½ cups rich milk	6 tablespoons sugar
3 eggs	1 teaspoon vanilla

In a saucepan, mix sugar, flour and salt. Add milk and slightly beaten egg yolks. Stir until mixed. Add butter and cook over low heat until thickened, stirring constantly. Add vanilla and mix. Pour into a baked pie shell. Beat egg whites until stiff. Sift 6 tablespoons sugar gradually into beaten egg whites, whipping after each addition. Spread on top of cooled pie, taking care that meringue touches crust at all places. Bake in a preheated slow oven

(325° F.) for about 20 minutes or until the meringue is slightly brown.—Mrs. E. M., Sedgwick Co.

Russian Salad Dressing

¼ cup sugar	¼ cup grated onion
3 tablespoons water	juice of 1 lemon
¼ teaspoon salt	1 tablespoon Worcestershire sauce
½ teaspoon paprika	1 cup salad oil
1 teaspoon celery seed	1 tablespoon vinegar
½ cup catsup	

Cook sugar and water for a few moments to make a thin sirup. Combine remaining ingredients in a bowl in which an egg beater may be used. Add sirup to other mixture and beat with egg beater until thoroly combined. Chill and keep in refrigerator. Recipe makes about 1 pint. Serve on tossed vegetable salad.—D. A., Pottawatomie Co.

Fruit Salad

2 apples, diced	½ cup whipping cream
1 banana, diced	½ teaspoon vanilla
1 cup pineapple chunks	2 tablespoons sugar
1 cup celery, diced	maraschino cherries
½ cup nut meats	

Combine fruits and nuts in large bowl. Whip cream, add vanilla and sugar and mix lightly. Pour over fruit and mix slightly. Serve cold in lettuce cups. Place a maraschino cherry on top each salad.—Mrs. M. D. D., Marion Co.

Coeds Study at KSC

(Continued from Page 18)

native Hunan Province. She found people there living on wild plants. "Fewer than one tenth of the children there have any milk," she said, "and they just don't grow."

Today, Chinese women who have never worked before are seeking careers, she says. They are teachers, sales clerks, secretaries, bookkeepers . . . just like their American sisters.

Next January, Te Chin plans to return to China to begin her busy life again in some kind of educational or research work.

Jean Olliver, a pretty Canadian co-ed from Vancouver, came to Kansas State last fall to study man's eternal enemy, the clothes moth. After receiving a bachelor of science degree in foods and nutrition from Macdonald College, she became assistant dietitian at Acadia Camp, the temporary student residence for the University of British Columbia in Canada.

"I'm really not a foreigner," said Jean. "After all, we have only a boundary line between us." But she did mention some differences she had noticed between the 2 countries. Canadians, she feels, are more reserved than folks in the states. They take their time about everything. Dame Fashion

moves so slowly there that the "new look" hasn't caught on yet.

This same reserve is shown also in courtships. "A boy doesn't even hold a girl's hand at home, until the third or fourth date," she exclaimed, "but here . . . !"

She is studying textiles in connection with her main interest, and has found that Canadian cottons are not labeled and they lack the variety of finishes that our American yard goods have. But their British woolens make us green-eyed any day. Jean says she is enjoying her work here, but likes Canada better and plans to go back home and teach or do research.

For Children's Day

"Children of America," is the title of a pageant which may be of interest to many who are planning Children's Day programs. There are parts for several children and "pieces" for the very young. We have a limited supply of these leaflets which we shall send upon request to Entertainment Editor, Kansas Farmer, Topeka. Price 3c.

Squares for Tray Cloth



Dainty square motifs form the border of this crisp white linen tray cloth. It may be used for luncheon cloth also. Each motif is quickly and easily crocheted. To secure pattern 7711 with complete directions, send 5 cents to the Women's Editor, Kansas Farmer, Topeka.



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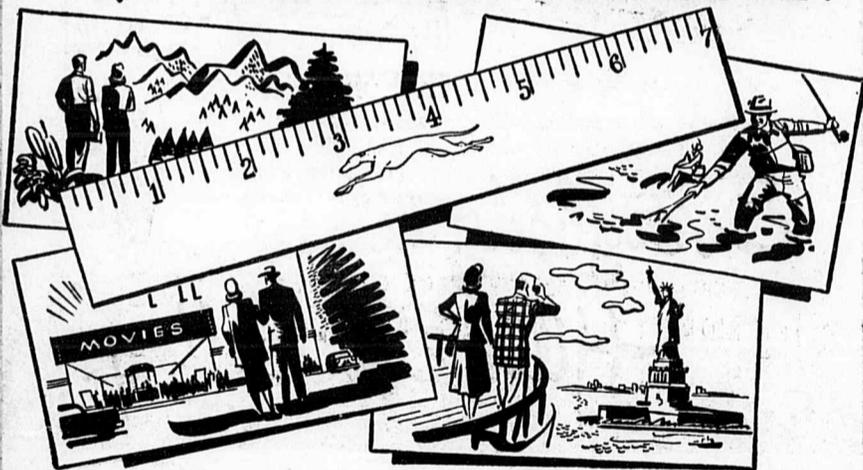
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For the Club Party

THERE are heirlooms treasured in every family, but the ones that top the list are the wonderfully good recipes that have been passed on to us. Before your next club meeting inform each guest of your plan and tell them to be prepared to tell something of the history of the recipes they bring.

Grandmother may have come from the South. Her favorite recipe might have been sweet potato pie. Another housewife still prefers her grandmother's apple dumplings just as they were made back in Ohio. That century-old beaten biscuit recipe from Kentucky is the same that granddaughter follows so successfully today. There undoubtedly will be recipes as interesting as shoo-fly pie, so named because it was so good the flies were attracted to it.

Any hostess can sense the interest such an idea will create. Old family stories and pleasant discoveries about one another's neighbors will result in a most unusual and worthwhile affair. Recipes may be exchanged later.

If there are GI brides from foreign countries, their recipes will add no end of interest to the afternoon's entertainment.

To Sell or Swap

Most clubs and other organizations need cash occasionally and the way to get it painlessly is a perpetual problem. Here is an idea sent us by a contributor.

Not only for the fun of it, but for the good of it, have a swapping day. The president of any club or community group announces the time and the purpose. This may be an annual affair, semi-annual, or just as the group decides.

The idea is for each member to bring articles to pass on for the benefit of other members of the club. They may be brought to swap or sell for keeps or merely to lend. Books, read by all the members of a family, are good for

either lending or swapping. Magazines fall into the same category. Magazines on nature, travel and sports used by the young folks for reference books sell easily.

Among the many ideas for money making are bulbs, dried herbs, feed and flour sacks, sheet music, nuts, house plants, cuttings of outdoor plants and vines. Woolen scraps, and worn clothing for hooked or crocheted rugs, patches for quilt makers, fat for homemade soap, a pair of good but outgrown overshoes. All these will be of use to someone and the trading will be fun.

A committee must set a price and tag each article. For lending, the price should be less.

News to You?

An unusual dressing for fruit salads can be made by adding one fully ripe banana to 1 cup of mayonnaise dressing. Blend with an egg beater.

To remove shine from trousers, skirts and sleeves, sponge the shiny places with water containing a little ammonia. Press with plenty of steam. When dry, rough the spots up with fine sandpaper, but rub lightly.

Send Your Recipes

We are planning to print recipes and menus suitable for harvest days. Send us your favorite recipes and menus for the busy days when you have extra men at the dinner table. The time element and the uses made of garden vegetables will be considered when choosing those to print. Those printed will be first tested in our kitchen. One dollar will be paid to those who send prize-winning recipes and menus. Send to the Women's Editor, Kansas Farmer, Topeka.

For Sunshiny Days



9067—Your tot will love the adorable ruffled yoke and perky, little skirt. It opens flat to iron. Sizes 1 to 5 years. Size 2 requires 1½ yards of 35-inch material; panties ¾ yard.

9271—Yours for the sewing! A trim frock which stars a new neckline and a touch of embroidery around neck, cap sleeves and pockets. Sizes 34 to 46. Size 36 requires 3¾ yards of 39-inch material. Transfer included.

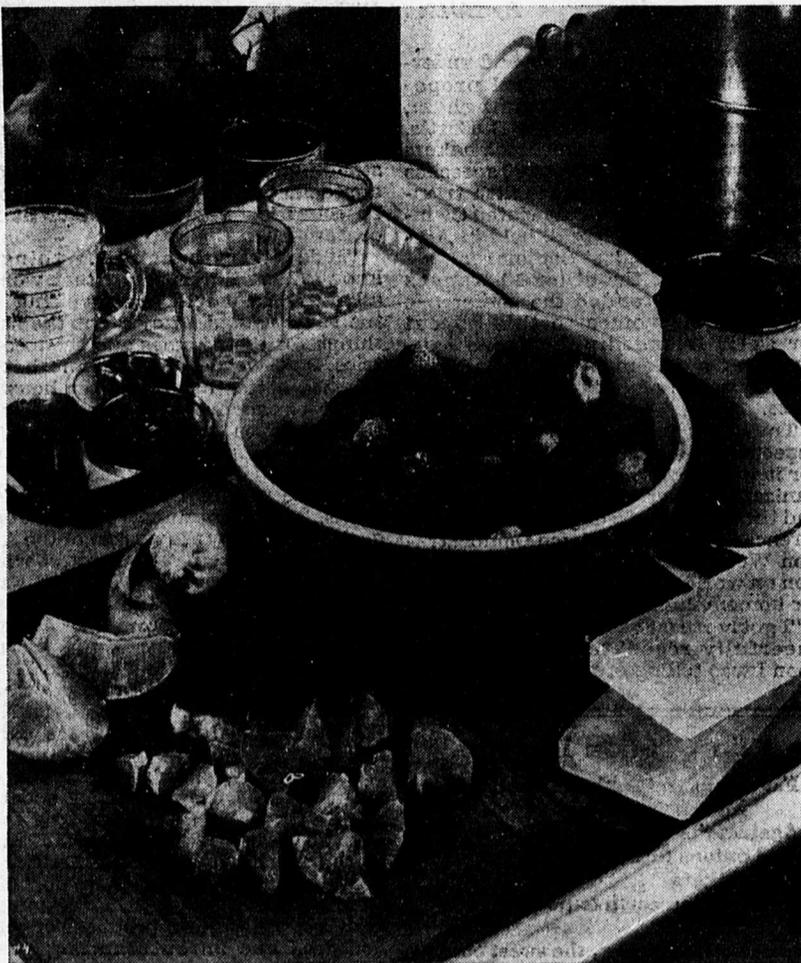
4526—A dress to suit, a charming 2 piecer with draped neck, gay bow, flirty peplum. Sizes 12 to 20. Size 16 requires 3½ yards of 39-inch material; ¾ yard of contrasting fabric.

4834—A young summer sunrock. It turns frilly when you button on the collar. Sizes 10 to 16. Size 12 requires 2¾ yards of 35-inch material; ¾ yard contrast.

4823—This is for simple sewing... just right for the amateur. Bodice and skirt are each one piece; no sleeves or collar to set in. Sizes 12 to 20. Size 16 requires 3 yards of 39-inch material.

Patterns may be obtained by sending 25 cents to the Fashion Editor, Kansas Farmer, Topeka. Fifteen cents more will buy the new Summer Pattern Book with a free pattern printed in the book.

It's Strawberry Time Again!



STRAWBERRIES are one of the so-called "hard-to-jell" fruits because they are low in pectin. Pectin is the substance in fruit which makes it jell. Adding prepared pectin will aid the process and less sugar will be required.

Orange-Strawberry Jam

- 1 large orange
- 1 large lemon
- 1 quart strawberries
- 4 cups sugar
- 1 box powdered fruit pectin

Peel the orange and lemon. Remove sections of pulp, free from the membrane and dice. Crush strawberries thoroly. Combine fruits and measure 3 cups into a large saucepan. Measure sugar and set aside. Place saucepan holding fruit over high heat. Add powdered fruit pectin and stir until mixture comes to a hard boil. At once, stir in sugar. Bring to a full rolling boil

and boil hard for 1 minute, stirring constantly. Remove from heat, skim, ladle quickly into hot sterilized glasses. Paraffin at once. Makes about 7 six-ounce glasses.

Strawberry Preserves

The color and flavor of strawberries are easily destroyed by heat. So, in making preserves, it is well to cook them only as little as possible.

- 1 pound strawberries
- 1 pound sugar

Select large, firm, tart berries. Wash, drain and stem. Combine fruit and sugar in alternate layers and let stand 8 to 10 hours or overnight before cooking. While heating to boiling, stir carefully. Boil rapidly for 15 to 20 minutes or until the sirup is somewhat thick, taking care to prevent burning. Remove the scum. Pour at once into hot sterilized jars and seal.

Books on Review

Plantation Parade

Here is a book for the stay-at-home traveler. The subtitle is, "The Grand Manner in Louisiana." Once upon a time America, too, had princes, those in Louisiana. An empire unfolded along the Mississippi river in the 18th and 19th centuries, soaring mansions rose amid the cotton and sugar plantations. Few kings could boast as many servants. The French-Spanish Creoles made it like their European homes. Later came a merging with the less easy-going Americans.

No tale of fiction could be more extravagant than these actual stories of the early families along the Mississippi. Woven into the stories is the history and social life of the times.

Harnett T. Kane, the author, is a native of New Orleans and has recently advanced to the position of the leading writer and outstanding authority on Louisiana. The book includes 32 illustrations of the mansions that have made such extravagant history. Plantation Parade is published by William Morrow and Co., New York City.

Country Cured

People who have ever lived on a farm will appreciate and love "Country Cured." The author, Homer Croy, was born and reared on a farm in Northwest Missouri and he still owns it, despite the fact he became a writer and now lives in New York. This book is of the farm, thoroly and sincerely and humorously American.

Mr. Croy tells of all the hard work on the farm, his years at the University

of Missouri and his success as a journalist and writer. The reader will learn to know and admire the Croy family. It will bring happy memories to those who know life on the farm and too, it will tickle your funny bone. Country Cured is published by Harper and Brothers, New York City.

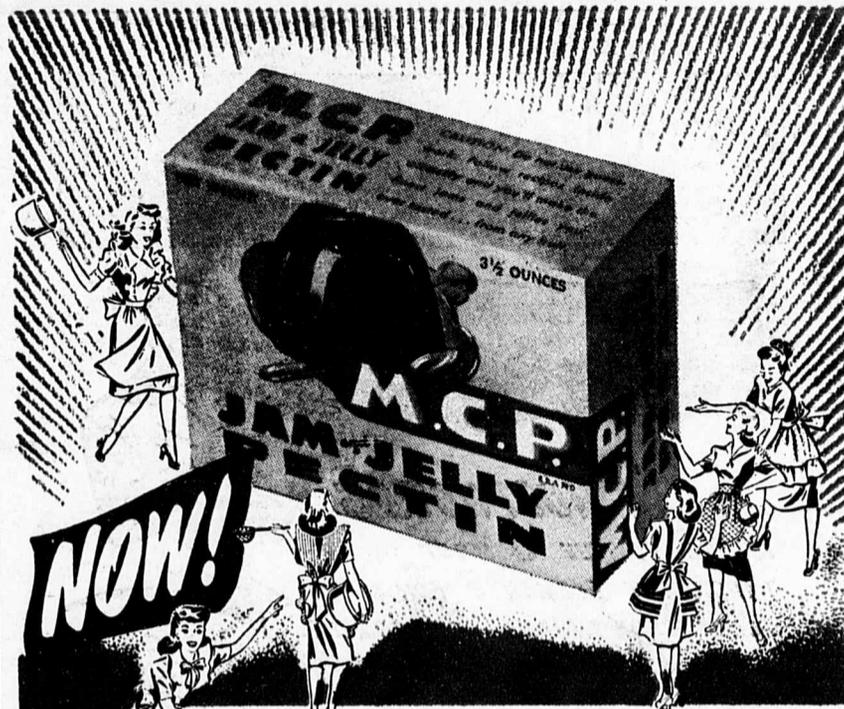
Inside U. S. A.

John Gunther, the author of "Inside U. S. A.," visited every state in the Union in preparation for writing this book. His "Inside Europe," "Inside Asia" and "Inside Latin America" have become well known among readers. The book is a storehouse of facts, every sort of fact imaginable. It's the kind of book that should stand near the encyclopedias on the bookshelf.

The author interviewed important people wherever he went, public officials, labor leaders, politicians, all sorts of people. He writes interestingly of agriculture, industry, personalities. It's a big book which sells for \$5 and is published by Harper and Brothers, New York City.

Wash the Pillows

You can wash pillows without removing the feather from the covers. Make a small opening at one end of the pillow for air circulation. Wash in 2 lukewarm suds for 5 minutes each time. Rinse 2 or 3 times in lukewarm water and wring. Dry outdoors if the temperature is above freezing. Shake and turn the pillows often as they are drying.



IN A *new AND larger* PACKAGE

TO GIVE YOU MORE FOR YOUR MONEY ..Than Other Leading Pectins!

Here's Why

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M. C. P.	14 Medium Glasses	8 Medium Glasses

*Name On Request. Manufacturers' Recipes Used.

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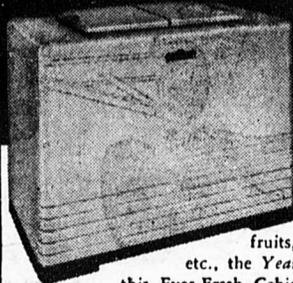
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Simplot Fertilizer Company
POCATELLO, IDAHO

They Spread Understanding

By EULA MAE KELLY

INTERNATIONAL peace and understanding have 2 powerful proponents in Mrs. C. C. Cunningham, El Dorado, and Mrs. Orville B. Burtis, Manhattan. Both are farm homemakers who have made more than 200 speeches since their return from the fifth triennial conference of the Associated Country Women of the World, held in Amsterdam, Holland, last September.

With each of the other 10 Kansas women who attended the conference adding their voices to this appeal for world friendship, horizons have stretched and sympathies broadened for thousands of Kansans throuout the state.

Thus is exemplified the far-reaching aspects of home demonstration work, for it was thru membership in unit organizations that these 12 rural women had the opportunity of going to the conference. So National Home Demonstration Week, May 2 to 8, focused attention on world citizenship as well as better homemaking.

"I got home on Saturday," Mrs. Burtis cheerfully recounted, "and Monday noon I was telling of my experience be-

One profound impression that Mrs. Burtis and Mrs. Cunningham shared was that the women of the world all want the same things. Language is no barrier to this kind of mutual understanding. In fact, there was no disagreement among the 500 women from 25 countries who sat together at the conference.

"It is a very heartening thing to know," Mrs. Burtis said, "that women all over the world are working for the same things. They want the same things for their homes and their countries that we do. They want better schools, better health, better housing, better equipment. They want to train their children so their minds will be clear, their spirits happy and their characters generous."

A collection of 12 packages of feed sacks, each containing enough for a garment, sent by the women of the Ashland home demonstration unit, of which Mrs. Burtis is a member, were distributed to women from 12 different countries. The \$5 cash from the Ashland Sunday school class was duly distributed thru one of the delegates from Colorado, Mrs. John Hassoldt, whose father was a minister in Holland. Now the Sunday school classes are corresponding.

One of the women's memorable experiences was the night they spent in the De Groot "great" farm. Any farm over 30 acres is called a "great" farm in the Netherlands. "The De Groot's grow certified seed just as we do," Mrs. Cunningham discovered. Mr. Cunningham is a well-known producer of certified seed and an outstanding grain judge.

"I remember so vividly going into the immense barn, 120 by 200 feet on the De Groot farm where the grain was stacked. Mr. De Groot threshed out some of the seed for me and I brought it back in a jar for Mr. Cunningham. After we would reach an understanding about a crop rotation or some such matter, Mr. De Groot would smilingly offer his hand, and we would shake hands."

Seeing one of Regent Juliana's little daughters was another delightful episode. The child was heard to say, "The time of queens is passed, I am going to study to be a doctor."

The Garden Prevue

Fat beans raise their small umbrellas
Against the warm May rains,
And onions thrust their slim green fingers
Thru mellow earth to point at rainbows,
Like an Indian boy, the sweet corn sports
Two tall quills on his little head,
While peas sway gracefully in lacy skirts
Toward lettuce decked in pale green shorts,
And the carrots toss their graceful plumes,
As my garden, proudly looks toward June!

—By Harriette Hill.

fore a luncheon of the Kansas State Board of Education in Topeka. It seems I have been telling my story almost without ceasing ever since. My largest audience numbered 840—that was the annual Geary county Extension meeting in Junction City. An important contact was the regional meeting of the Soroptomist Club in Hutchinson. I had a number of special 'Soroptomist' stories to tell them for I visited with club members in several countries.

"I've talked at spring teas, unit and county achievement days, before women's and college clubs, at sororities and before numerous church groups. My May schedule includes talks in Olathe, Cottonwood Falls, Topeka and Carbondale. For a farm gal, I have really been getting around."

Mrs. Cunningham rejoined by saying that in her first 58 days at home, she spoke 52 times. The first week after her return 16 clubs in El Dorado got together an audience of 532 women to hear her. She has spoken to virtually all the home demonstration units in her home county of Butler. She was the principal speaker at the Greenwood and Neosho county achievement days last fall, and has county teas in Doniphan and Sumner county on her spring agenda.

"Everywhere the response has been marvelous. You see, I had the choice of having my farm home remodeled or taking the trip to Holland. I have never regretted my choice. How important it is to occasionally break our routine and take advantage of new opportunities! I keep up a correspondence with many of the delegates from other states, as well as with foreign families. It is a wonderful continuing experience."

Only recently 2 French girls, Odette Lesage and Marguerite Migeon, exchange art students whom Mrs. Cunningham met on the ship coming home, visited the farm for 10 days. One of Marguerite's oil paintings, her first impression of a New Mexican landscape, graces the Cunningham living room.

"It is my sincere hope that some day the Kansas Home Demonstration Council will sponsor exchange visits with the country women of Europe."

Sunbonnet Girls



7200

Here is something mighty fetching for your kitchen linens. Six little Sunbonnet Girls, each different. Very easy needlework.

To obtain this pattern, number 7200, send 20 cents to the Needlework Editor, Kansas Farmer, Topeka. The new needlework book is ready. This 1948 edition contains 97 illustrations of embroidery, knitting, crochet, toys, children's clothes and accessories. Send 15 more cents for this book.

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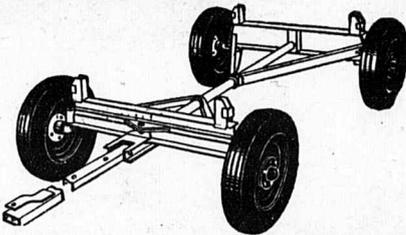
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Insect Control Easier Now

By W. G. AMSTEIN, Kansas State College

GARDEN insects do considerable injury to most farm and home gardens every year. Prevention of this damage or early control measures are important if good quality products are produced. The garden insect-control jobs are easier now with rotenone (derris), DDT, cryolite and other new materials now available for use along with, or in place of, the best of the materials that have been used thru the years.

I have noticed cabbage worms getting under way in good style on cabbage, cauliflower, broccoli and other related crops. There are several different cabbage worms. If you recall the white or mottled butterflies that you enjoyed watching lately flying or hovering around the cabbage plants, you can expect to find cabbage worms or evidence of their injury very soon.

Since cabbage worms are chewing insects, stomach poisons (insecticides) sprayed or dusted on the crop should control these pests. A small hand duster is convenient for applying the material. Likewise, better results will be had ordinarily by dusting than by spraying cabbage since it is difficult to keep the mixture from running off. A one per cent rotenone dust or a 3 or 5 per cent DDT dust can be used for these cabbage worms according to directions on the container.

If plant lice or aphids are causing the leaves of your plants to fold, the use of nicotine sulphate (Black Leaf 40) either as a dust or spray works quite well. Often the leaves are rolled before the presence of the aphids is noticed and the resulting control is poor. Nevertheless, many of us blame the control measure recommended if the results are unsatisfactory. Earliness and alertness in detecting insect or disease outbreaks is fully as important as knowing and using the correct control measures.

Destroy your early radish plantings even before you are thru with them. That is, do not allow them to remain to serve as a host crop for a fine buildup of flea beetles. The small pinholes on the leaves of crops such as radish, tomatoes, egg plant, cabbage, beans, and many other crops are often the work of flea beetles. These flea beetles vary in color and size. Usually they are black or brown with or without stripes and about the size of a pinhead.

If a heavy outbreak of flea beetles occurs use a 3 or 5 per cent DDT dust in pyrophyllite or talc for best results.

Remember that the lower sides of the leaves must be treated as well as the top side. Do not expect one application to give you control for all season.

Damage by bean leaf beetles has been noticed and is very common. This beetle may be confused with the cucumber beetle but is smaller than the cucumber beetle and reddish-yellow in color with black spots. The damage occurs on the lower surface of the leaves. There are several materials that can be used for control of bean insects. Cryolite is a very satisfactory material. It should be used according to the manufacturer's directions but in most cases a 50 per cent cryolite dust is used. Be sure to cover the lower surface of the leaves. Avoid use of lead arsenate on beans since it seems to injure the plants. Likewise avoid working the beans when the foliage is damp or wet since it also helps spread disease.

Potato bugs, leafhoppers and tip and margin burn on the foliage are often very damaging. Lead arsenate, calcium arsenate, or Paris green have been used in the past for potato bugs. However, with the new materials now available I would use a combination DDT and copper dust. It gives good results both on the potato insects and the tip and margin burn caused by leafhoppers as well as for other diseases.

Striped cucumber beetles working on cucumbers, pumpkins and squash should not be handled by the use of DDT. Severe plant injury has often been reported even though good beetle control has been obtained with DDT. Use a one per cent rotenone dust starting when the plants are small or as soon as you plant the seed.

For years the \$64 question has been the control of squash bugs. You remember the wood-control method. That was using 2 blocks of wood with the squash bug in between and perhaps your thumb also. A 20 per cent Sabadilla dust is now recommended. It will control many kinds of stink bugs, harlequin cabbage bugs, blister beetles as well as the squash bugs, and many others you may have found extra hard to control.

If you want to grow sweet corn that is more nearly free of worm injury, I suggest you plan to dust the ears with a 5 per cent DDT dust just as the ears show silks. Use of hybrid sweet corn varieties such as Golden Cross Bantam will permit you to dust most of the ears at one time.

F. F. A. Random Notes

HERE are some interesting notes taken from the annual reports of Kansas F. F. A. chapters competing for Gold Medal emblems at the 1948 state contests, at Manhattan, April 26 and 27.

WINFIELD CHAPTER: Set goal of having each boy build at least 1 piece of equipment for farming. Exceeded goal by 200 per cent. Helped 28 boys and farmers purchase 94 head purebred livestock. Had 87½ per cent attendance at all chapter meetings. Twenty boys had perfect attendance.

COLDWATER CHAPTER: Completed 100 per cent of all supervised practice projects. Fifty per cent of members raise purebred livestock, and 70 per cent plant only certified seeds. One hundred per cent of members plan 4-year farming program.

HIGHLAND PARK CHAPTER, Topeka: Ninety per cent of members own purebred livestock and 100 per cent use purebred sires. Have an average of \$830 a member invested in farming. Carried out an average of 12 approved farm practices per member.

COLBY CHAPTER: Thirty-six boys in chapter have a total net worth of \$102,375.72 and an average net worth of \$2,843.77. This is the highest total net worth for all chapters in the state.

BUHLER CHAPTER: Set goal last year to average 20 bushels of wheat and had an average of 22 bushels. One hundred per cent of members using purebred sires and planting pure seed. All members donated an average of 2.7 days to operating power sprayer. Fifteen boys donated an average of 7 days each. Kept city cemetery sprayed for bindweed; sprayed 145 barns, 15

laying houses, 10 hog houses, and 4,647 head of cattle. Bought a 37-foot spray boom and planned to spray 1,000 acres of wheat this spring. Seventy-two per cent of members did 1 or more things to beautify homesteads. Eighty per cent subscribe to an average of 2.43 farm magazines.

OLATHE CHAPTER: One hundred per cent of the Greenhands planned projects that fit into long-time farming program. One hundred per cent of members kept record books up-to-date. All individual projects were visited by the chapter. Each member completed 4 or more home improvement projects.

STOCKTON CHAPTER: Twenty per cent have purebred female livestock and 90 per cent have purebred sires. Members were urged to repair machinery on their own farms as well as in the school shop. Members produced, among other things, 30,560 pounds beef, 7,510 pounds pork, 4,545 pounds mutton and 6,422 bushels of wheat.

Seventy chapters in the state reported a total net worth of \$1,599,888.56. The 6 chapters with the highest net worth, based on active members, include: Effingham, A. G. Jensen, instructor, 74 members, \$75,506.64; Emporia, Emory Groves, instructor, 84 members, \$70,102.20; Newton, R. M. Karns, instructor, 48 members, \$56,247.36; Coldwater, L. E. Melia, instructor, 31 members, \$52,805.71; Beloit, H. R. Bradley, instructor, 45 members, \$51,390.90.

To Soften Paint

To soften paint that is hard and useless, pour an inch of turpentine on it and let stand a few days. Mix well and paint is ready to use.—M. E. L.



"I've Got the
NEW LOOK
on Farming"

● **It's the crop yield per hour of work that counts when wages are high and help is hard to find. It's fast work in a wet spring that catches up with weather and gets ahead of weeds. It's early cutting and prompt baling that put up hay with the most protein and best quality. It's hustling your harvest that puts every possible bushel into bag or bin. It's swift work with a small crew that cuts down the cost of silage, reduces damage in case of frost.**

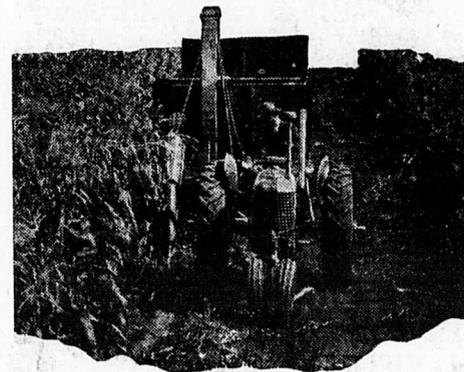


This is the Slicer-Baler that changed a nation's haying habits. It's so simple that boys operate it, so moderate in cost that most any farmer can afford his own. It takes hay from the windrow, puts bales on the wagon—no heavy lifting from the ground. It uses the standard wire tie, builds firm bales that stand up under rough handling and long hauls.

Most capable combine ever built, say many owners who have used the Case Model "A" in tough conditions. It has threshing power to shell out stubborn seeds, full-length rack to save every possible kernel, Case Air-Lift cleaning for finer, faster work. It has working parts supported on a sturdy frame of angle steel to stand up for extra years of heavy duty.



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Boost your own yield per hour. See your Case dealer for full details and chances of delivery on these fast-working machines. Learn the reasons for Case capacity and extra ENDURANCE. Write for latest catalog on the size of tractor or combine to fit your farm. Mention anything you need in plows, harrows, grain drills, planters, hay or corn machines, manure spreaders or hammer mills. J. I. Case Co., Dept. E-47, Racine, Wis.



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Who Won Top Honors

At Recent Vocational Agriculture Contests



Future Farmers Dick Weltmer, left, and Bill Hays, of the Smith Center chapter, time a tractor engine during the state farm mechanics contests held at Kansas State College.

THE Inman High School Vocational Agriculture judging team triumphed over 102 competing teams, to win first place in the 25th annual high-school judging contest, held April 26 and 27, at Kansas State College, Manhattan.

Olathe won the farm mechanics contests, with 71 teams competing. Some 1,200 of the 5,100 boys taking Vocational Agriculture in Kansas, took part in the contests.

Vernon Pauls, Harold Thiessen and LaVern Williams comprised the winning team for Inman. They were coached by William J. Braun. The Olathe farm mechanics champions were Wayne and Elton Zimmerman, coached by E. L. Raines.

The Olathe chapter of F. F. A. also won the F. F. A. plaque awarded by the K. S. C. Agricultural Education Club for making the highest total score in all F. F. A. events, covering 15 areas of competition in 3 major fields—judging, farm mechanics and F. F. A. activities. Beloit, winner last year, was second by only one point.

John M. Allison, of the Shawnee-Mission chapter, speaking on "Push-Button Agriculture," won the state public-speaking contest. Charles Alexander, Olathe, placed second, and John Lee Zielke, Buhler, third. Twenty-five boys competed. Allison now will represent Kansas at the central regional F. F. A. public-speaking contest to be held late this summer.

Guest speaker at the annual F. F. A. banquet was Ervin Martin, Salem, Ind., national president of the Future Farmers of America.

Honorary State Farmer degrees

were bestowed upon Prof. George Montgomery, head of the economics and sociology department, Kansas State College; H. L. Kugler, agricultural engineer, and J. C. Mohler, Topeka, secretary of the Kansas State Board of Agriculture.

John Gigstad, Effingham, was elected as president of the Kansas Future Farmers of America, succeeding Harland Priddle, Haven. Other officers chosen at a house of delegates meeting were Bob Edwards, Emporia, vice-president; Don Stuteville, Parsons, secretary; Lon D. Crosson, Minneapolis, treasurer, and Carldon Broadbent, Beloit, reporter.

Detailed results of the various contests are as follows:

Judging

Teams and coaches in the 10 high judging teams: Clay Center, Ray Morrison; Belleville, Carl Beyer; Cherryvale, C. H. Young; Coffeyville, Marvin Castle; Frankfort, Harold Frank; Beloit, H. R. Bradley; El Dorado, W. R. McMillan; Glasco, H. W. Schaper; Newton, R. M. Karns.

Ten high individuals in entire judging contest, named in order: Harlan Johnson, Frankfort; Vernon Pauls, Inman; Karl Rau, Clay Center; Charles Sanford, Belleville; Randall Knox, Chanute; Donald C. Collett, Coffeyville; Raymond Sis, Belleville; Glenn Linnebur, Cherryvale; LaVern Williams, Inman; John Mangan, Cherryvale.

Farm Mechanics

Ranking teams in the 10 high in
(Continued on Page 25)



J. Henry Heim, Buhler, center, and Milton George, Effingham, shown competing in the 25th annual high-school Vocational Agriculture farm mechanics contests at Kansas State College.

farm mechanics and their coaches were: Olathe, E. L. Raines; Smith Center, Charles Mantz; Chanute, C. O. Carter; Colby, R. B. King; Beloit, H. R. Bradley; Hoxie, Willard Berry; Hiawatha, Winzer Petr; Stafford, Elmer Schrag; Lebanon, Don Hall; Little River, Milton Kohrs.

Ten high individuals in all farm mechanics contests: Elton Zimmerman, Olathe; Bill Hays, Smith Center; Wayne Zimmerman, Olathe; Xury Hole, Chanute; Don Friesen, Colby; Duane Harper, Colby; Alfred Reitcheck, Hoxie; James F. Shea, Quinter; Darrell Fobes, Beloit; Raymond Pautz, Hiawatha.

Livestock Judging

Highest-scoring livestock-judging team, Belleville, Carl Beyer, coach. The other 9 high teams and coaches: Coffeyville, Marvin Castle; Newton, R. M. Karns; Phillipsburg, Frank Freeman; Clay Center, Ray Morrison; Shawnee-Mission, H. D. Garver; El Dorado, W. R. McMillan; Lebanon, Don Hall; Colby, Ronald King; Inman, W. J. Brown.

Ten high individuals in livestock judging: Robert Knott, Newton; Lucky Lillieqvist, Medicine Lodge; Max Mullen, Lebanon; Karl Rau, Clay Center; Glenn Linnebur, Cherryvale; Raymond Sis, Belleville; Donald Collett, Coffeyville; M. Hargrove, Effingham; Charles Sanford, Belleville; Eldon Ragette, Clifton.

Dairy Judging

In dairy judging, the Coffeyville team, Marvin Castle, coach, ranked first, followed by El Dorado, W. R. McMillan; Belleville, Carl Beyer; Cherryvale, E. H. Young; Beloit, H. R. Bradley; Leon, Carl Powell Heide; Emporia, Emery Groves; Clay Center, Ray Morrison; Shawnee-Mission, H. D. Garver; Medicine Lodge, Calvin A. Doyle.

High individuals in dairy judging: Raymond Sis, Belleville; Elroy Vitt, Washburn Rural, Topeka; Alfred Schuetz, Coffeyville; Bill Brown, Beloit; Lloyd Farr, Emporia; Joe Unger, El Dorado; John Mangan, Cherryvale; Duane Traylor, El Dorado; Karl Rau, Clay Center; Donald Whelply, Coldwater.

Poultry Judging

Ten high teams and coaches in poultry judging: Chanute, C. O. Carter; Inman, W. J. Braun; Cherryvale, C. H. Young; Olathe, E. L. Raines; Clay Center, R. W. Morrison; Newton, R. M. Karns; Stockton, F. A. Blauer; Frankfort, H. E. Frank; Concordia, W. A. Rawson; Stafford, Elmer Schrag.

First 10 individual scorers in poultry judging: Eldon Conrad, Alton; Charles Larson, Chanute; Doyle Peaslee, Stockton; Ben Krehbiel, Jr., Mound Ridge; Harold Thiessen, Inman; Randall Knox, Chanute; Phil Lukert, Washburn Rural, Topeka; Frank Fulton, Harper; Beuford Titus, Stafford; John Mangan, Cherryvale.

Crops Judging

Ranking in the high 10 on crops judging were: Newton, Cherryvale, Coldwater, Frankfort, Beloit, Chanute, Belleville, Parsons, Stockton.

High-scoring crops-judging individuals were LaVern Williams, Inman; Victor Thompson, Coldwater; Robert Knott, Newton; Glenn Linnebur, Cherryvale; Bob Jones, Frankfort; Vernon Pauls, Inman; Doyle Peaslee, Stockton; Don Stuteville, Parsons; Harlan Johnson, Frankfort; William Gatz, Newton.

Tool Sharpening

Sharpening tools (teams): Olathe,

Hays, Smith Center, Colby, Hoxie, Altamont, Little River, Washington, Lebanon, Iola.

Sharpening tools (individuals): Eugene McCormick, Kingman; Bill Hays, Smith Center; Xury Hole, Chanute; Wayne Zimmerman, Olathe; Alfred Reitcheck, Hoxie; Richard Seid, Hays; Donald Lott, Minneapolis; Don Friesen, Colby; Adelbert Stewart, Washington; James Shea, Jr., Quinter.

Soil Conservation

Soil conservation (teams): Norton, Olathe, Centralia, Smith Center, Chanute, Colby, Spearville, Hiawatha, Emporia, Beverly.

Soil conservation (individuals): Richard Ravenkamp, Spearville; Bill Hays, Smith Center; Lee Owens, Centralia; Royce Whitney, Norton; Wayne Zimmerman, Olathe; Vernon Lohrentz, Mound Ridge; Don Friesen, Colby; Xury Hole, Chanute; Elton Zimmerman, Olathe; Dean Rogers, Norton.

Concrete

Concrete (teams): Kingman, Inman, Spearville, Hiawatha, Beloit, Lebanon, Hillsboro, Little River, Belleville, Smith Center.

Concrete (individuals): Eugene McCormick, Kingman; Bill Cady, Osborne; Philip Spohn, Inman; Mike Gleason, Spearville; Raymond Pautz, Hiawatha; David Ferguson, Kingman; LeRoy Jost, Hillsboro; Robert Crewell, Lebanon; Richard Ravenkamp, Spearville; Elton Zimmerman, who lives at Olathe.

Welding

Welding (teams): Clay Center, Olathe, Hays, Hoxie, Quinter, Chanute, Arkansas City, Beloit, Smith Center, Osborne.

Welding (individuals): Melvin Current, Arkansas City; Lawrence Martin, Clay Center; James Shea, Quinter; Elton Zimmerman, Olathe; Richard Seid, Hays; Bob Davis, Sublette; Duane Harper, Colby; Wayne Zimmerman, Olathe; Raymond Pautz, Hiawatha; David Fobes, Beloit.

Farm Machinery

Farm machinery (teams): Olathe, Chanute, Beloit, Hoxie, Colby, Minneapolis, Quinter, Smith Center, Clay Center, Marysville.

Farm machinery (individuals): Wayne Zimmerman, Olathe; Donald Lott, Minneapolis; Darrell Fobes, Beloit; Xury Hole, Chanute; Don Friesen, Colby; Harold Burner, Newton; Alfred Reitcheck, Hoxie; Elton Zimmerman, Olathe; Bill Hays, Smith Center; Vernon Lohrentz, Mound Ridge.

Farm Power

Farm power (teams): Smith Center, Beloit, Colby, Olathe, Hoxie, Newton, Chanute, McCune, Winfield, Moundridge.

Farm power (individuals): Bill Hays, Smith Center; Elton Zimmerman, Olathe; Alfred Reitcheck, Hoxie; Duane Harper, Colby; Darrell Fobes, Beloit; Dale Hall, Winfield; Philip Spohn, Inman; Richard Jostes, Beloit; LeRoy Jost, Hillsboro; Mickey Davis, Newton.

Farm Carpentry

Farm carpentry (teams): Olathe, Stafford, Beloit, Chanute, Hiawatha, Hoxie, Colby, Parsons, Lebanon, Smith Center.

Farm carpentry (individuals): Elton Zimmerman, Olathe; Dean Rogers, Norton; Melvin Hearn, Stafford; James Shea, Quinter; Chester Hildebrand, Stafford; Xury Hole, Chanute; Eugene McCormick, Kingman; Wayne Zimmerman, Olathe; Richard Jostes, Beloit; Lawrence Martin, Clay Center.

Gold Emblems

Winners of the gold-emblem award in the better-chapter contest and their advisers were: Buhler, J. A. Johnson; Beloit, Howard Bradley; Clay Center, R. W. Morrison; Colby, Ronald King; Coldwater, L. E. Melia; Shawnee-Mission, H. D. Garver; Olathe, E. L. Raines; Stockton, F. A. Blauer; Highland Park, Topeka, F. E. Carpenter; Haven, Glenn Schulthess; Effingham, H. E. Jensen; Minneapolis, J. Willis Jordan; Winfield, Ira Plank and Don Lowe.

Silver Emblems

Winners of the silver award and their advisers were: Chanute, Charles Carter; Concordia, W. A. Rawson; Hiawatha; Winzer Petr; Lawrence, W. R. Essick; Lebanon, Don Hall; Newton, R. M. Karns; Randolph, Robert C. Stephens; Smith Center, Charles Mantz; Washington, I. E. Peterson.

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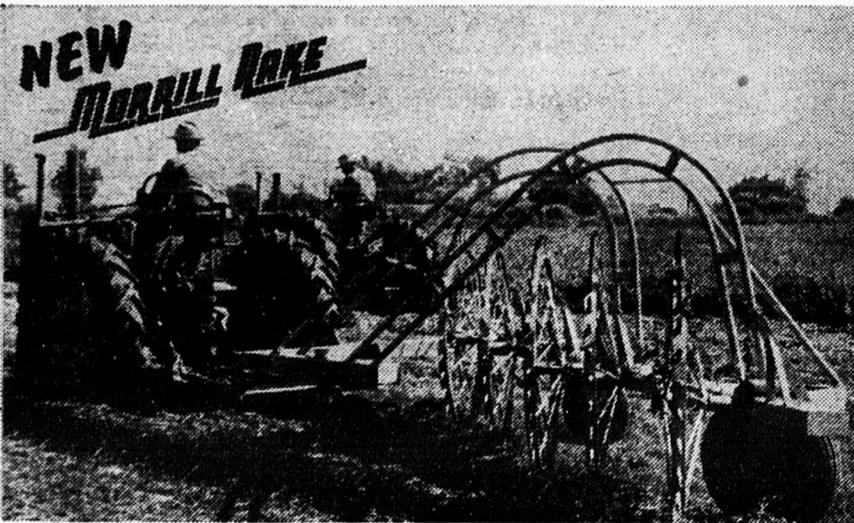
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Coming Events

May 15—Barton county 4-H improvement school.

May 16-June 2—American Guernsey Cattle Club meeting, Portland, Ore.

May 17—Montgomery county balanced farming tour.

May 17—Woodson county poultry brooding and management meeting, M. A. Seaton, leader.

May 17—Norton county farm tillage demonstration, Walter Selby, K. S. C. extension specialist, leader. Local implement firms will demonstrate various tillage tools.

May 18—Scott county. Agriculture and policy planning, C. R. Jaccard, leader.

May 18—Decatur county terracing contest and demonstration, Walter Selby, K. S. C., leader.

May 18—Cloud county soil and water conservation meeting, Concordia. Harold Stover, Luther Willoughby and Reuben Lind, leaders.

May 19—Cherokee county crops and conservation tour. E. A. Cleavinger, agronomy specialist; Knight and Harper, soil conservationists, leaders.

May 19—Mitchell county spring conservation tour, and crop school in evening. Conducted by Harold Stover, extension engineer, L. E. Willoughby, agronomist, and R. C. Lind, extension conservationist, KSC.

May 20—Washington county garden tour. Dr. E. G. Kelly, assisting.

May 20—Sheridan county tillage tool school, Walter Selby, extension agricultural engineer, will assist. Local implement dealers will supply equipment and operators for demonstrations.

May 21—Ellsworth county crops and soils tour.

May 21—Reno county horticulture meeting, W. G. Amstein, K. S. C., leader.

May 21—Marshall county. Special meeting with Dr. E. G. Kelly, K. S. C. entomologist, leader.

May 22—Lane county 4-H tractor maintenance meeting.

May 24—Russell county contour tillage tool demonstration.

May 24—Scott county. Poultry school, M. E. Jackson, leader.

May 24—Meeting of Farm Management Associations of 17 counties, Clay Center.

May 24—Decatur county beef meeting, Ray Hoss, K. S. C., leader.

May 24—Reno county farm management meeting, Prof. J. H. Coolidge, K. S. C., leader.

May 24—4-H district livestock judging school, J. A. Schoen farm, southwest of Lenora. Phillips, Rooks, Graham, Decatur, Sheridan, Rawlins and Norton counties participating. Lot Taylor and Ray Hoss, extension specialists, will conduct the judging school.

May 25—Lane county 4-H members and business men's chicken dinner, Cal Farley, Boys' Ranch, speaker.

May 25—Sedgwick county crops tour.

May 25—McPherson county 4-H fun night.

May 25—Jefferson county bookkeeping school.

May 25—Cherokee county garden and horticulture school, G. W. Amstein, garden and horticulture specialist, leader.

May 25-26—Geary county soil conservation tour, Junction City, 9 a. m. to 3:30 p. m. State Soil Conservation Committee, President Milton Eisenhower, of Kansas State College, and Governor Frank Carlson, attending.

May 26—Rooks county contour tillage demonstration.

May 26—Barton county 4-H foods judging school, Great Bend.

May 26—Woodson county land reclamation meeting. Professors Knight and Harper, leaders.

May 26—Johnson county crops and conservation meeting. John Ferguson, R. C. Lind and L. E. Willoughby, K. S. C., leaders.

May 27—Montgomery county garden tour.

May 28—Pottawatomie county crops and soils tour.

May 28—Jefferson county all-day school on engineering, soil conservation and crops and soils, Oskaloosa.

May 28—Osborne county tillage tool demonstration, K. S. C. Extension Service in co-operation with Osborne county soil-conservation district.

June 1-5—4-H Roundup, Manhattan.

June 5—Kansas State Dairy Goat show, Chamber of Commerce pavilion, Marion. An interesting exhibit and competition. Carl W. Romer, Admire, superintendent.

June 7—Johnson county dairy tour.

June 7—Russell county poultry day with M. E. Jackson, leader.

June 7-9—McPherson county crops and soils tour.

June 8—Lane county 4-H sponsored stage show—Ark Valley boys entertaining. Also Rural Life county dance.

June 8—Marshall county. Special meeting with R. S. Knight, K. S. C. electrical engineer.

June 9-12—4-H Camp at Rock Springs ranch. Decatur, Sheridan, Graham and Norton counties participating.

June 10—Barton county dairy judging school, Ellinwood.

June 16—Rooks county crops tour.

June 16—Ottawa county specialists meeting, Minneapolis, Farm Bureau basement, 2 p. m. Carl Elling, leader.

June 17—Johnson county wheat field day. Paul Uhlman farm. President Milton Eisenhower, K. S. C., speaker.

June 18—Russell county field crops and soils tour.

June 21—Jefferson county units leaders lesson school.

June 23-26—4-H Club camp, Rock Springs Ranch.

June 25—Hodgeman county shell craft work day, Jettmore court house, 2 p. m.

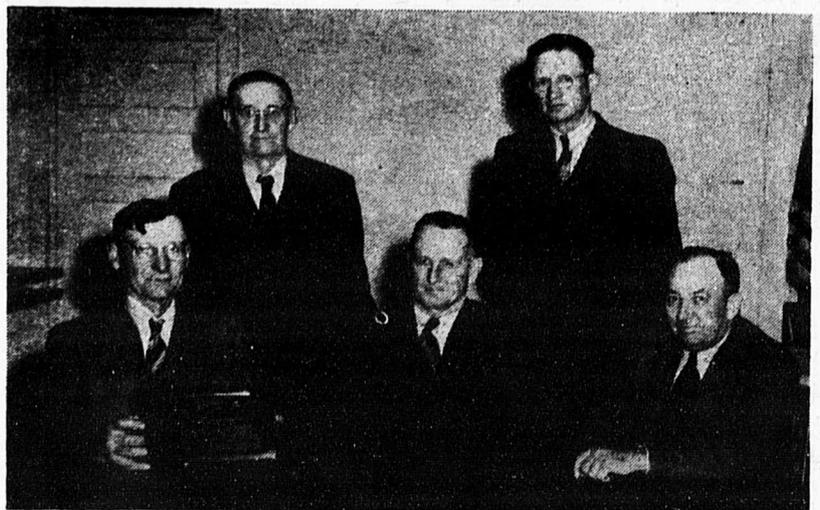
July 8—Johnson county disease control meeting. C. L. King, K. S. C., leader.

Holstein Fieldman



G. Raymond Appleman, Linn, is fieldman for the Holstein-Friesian Association of America. He has worked with Holsteins and Holstein men for several years. He was at one time manager of the Meierkord Farm, in Washington county.

Progressive Breeders of Kansas



These 5 Holstein men are the Kansas Progressive Breeders Registry award winners. To be eligible for this award 75 per cent of the animals in a herd must be home-bred. Also, they must meet certain production and classification requirements. In addition there must be good herd health. The men are, left to right, Jake Zarnowski, Newton; M. A. Shultz, Pretty Prairie; R. L. Evans, Hutchinson; E. B. Regier, Whitewater; T. Hobarl McVay, Nickerson.

Now That You Have Electricity

By CHARLES HOWES

ACTIVITIES of the Flying Farmers this month, and the new growth of electrification, bring to mind the fact that all of these new developments on rural farmsteads follow a pattern as unvarying as the seasons. You remember when the automobile was a luxury, it had no place on a farm except as a means of impressing the neighbors. Gradually, the utility of a car has evolved on a farm until today scarcely a farmer is without one—either a car or truck, sometimes both.

Electricity was the same way. Why should farmers want electricity, it was asked? They get up at dawn, go to bed at sunset, it's daylight all during their work day so they don't need that luxury except for a few weeks in winter. Gradually, folks began to see how electricity might do something for them besides providing light. Before too many more months pass, a farm can scarcely afford not to have electricity.

Now comes the airplane. It has passed stages of luxury and realization. Today, an airplane on the farm is like electricity was back when folks made their first ventures into using electric motors just to help a little with the farm work. It won't take long, under normal and apparently inevitable development, for the plane to be in the place of the farm auto and truck of today—and follow closely behind the electric servant.

The most efficient use of electricity can't be emphasized too often. Not that it isn't the safest power you can get. It's just that you can use it much more efficiently with a little observation and care.

For instance, this use of long extension cords is bad practice. In most cases, these cords are too small for carrying loads demanded by the appliances which usually are attached to them. They get hot, the insulation hardens, then cracks, the voltage delivery is lowered, the efficiency of the appliance is reduced from one tenth to one third.

Same thing is true of attaching appliances to drop cords, particularly heating appliances such as irons, heat-pads and toasters. A properly installed convenience outlet is built to carry this type of load, delivers the juice at peak efficiency. So don't hold back on installing wall outlets. Your loss will be less.

Barn cleaning, electric style, is just another development in the myriad uses of electricity. A 2-horsepower electric motor attached to the conveyor-type scraper moves the litter from the gutter directly outside—or into a spreader. Used 365 days a year it will pay for its original cost many times over.

We've talked about all of the manual jobs that electricity can do, and have forgotten one very important task which seems casual. That's lighting. Now that you have electricity you can utilize the lighting possibilities to relieve eyestrain, provide more reading time, improve your family's morale.

After all, you can regulate electric lighting to a most exacting degree so the maximum use of your vision can be obtained. Today's eyes are being put to severe visual tasks about 30 per cent

more than was common a generation ago. Yet eye efficiency has not been impaired. The reason: Modern lighting.

So watch the lighting in your home and buildings. It is number one item in your electric program. Get the ready help of an expert—follow his advice. It will be worth the effort.

Surprise item: Did you know that a 100-watt light bulb gives more light than two 50-watt bulbs?

Did you know: U. S. farmers use electricity in more than 460 different ways.

An Iowa dairy farmer has some interesting figures on his income which ought to be quoted, just as illustration. He used to cool his milk with well water, which was not cold enough. In 1946 he received electric service and an electric milk cooler—and since then he figures his premiums for producing high-quality milk total about \$6,000 a year. In addition, he figures about \$1,500 is saved annually by using electricity instead of other forms of dairy power. He milks 24 cows.

Somebody asked me about the costs of this electric soil-heating equipment which we spoke of last month. He was a hobby gardener and was concerned with about 35 square feet of early plants. We found that a ready-to-plug-in kit including thermostat and 60 feet of cable would fit his needs, and that he could buy one for less than \$25. So now he has one installed in a hotbed and promises that I will be provided with the earliest vegetables.

Here's a word about home freezers—be sure the one you buy is big enough for your needs. Too often buyers try to save by getting a small freezer, and the cost of overloading and consequent repairs far exceeds the difference in original cost. From 5 to 7 cubic feet per person is not too much.

And something else—don't dash right in to the processing of foods without investigating the problems thoroly. A little knowledge might be dangerous—that is, your results may not be as satisfactory as if you had followed the instructions provided by your dealer or discussed in your farm paper.

One angle on this business of electricity escaped attention while we were discussing all of the daily uses of this utility. Real benefits occur during less common events, such as the occasion of unexpected guests. The electric gadgets really do a yeoman job under those circumstances, doing a quick once over on the rugs and furniture, doing automatic cooking chores, saving time and temper for the housewife to use in enjoying and entertaining the guests.

Some additional information on the selection of an electric pump to fit farm water needs comes from Nebraska. The size of the pump, this article says, depends upon several factors. Many small pumps will deliver from 150 to 250 gallons an hour. It is common to hear a farmer say he will never need 250 gallons in one hour. This may be true, but it must be remembered that "250 gallons an hour" is a rate, not a quantity. Really good water flow from a faucet is at a rate of about 5 gallons a minute, which is 300 gallons an hour.

Using this rate measurement, the article continues, a good stream from an ordinary 3/4-inch garden hose is at a rate of about 300 gallons an hour.

Think of the fire-protection item in an electric water pump of sufficient capacity. It's a nice, comfortable feeling to know that the turn of a handle will deliver a substantial, dousing stream upon demand. After all, fighting a fire in its early stages is the best insurance.

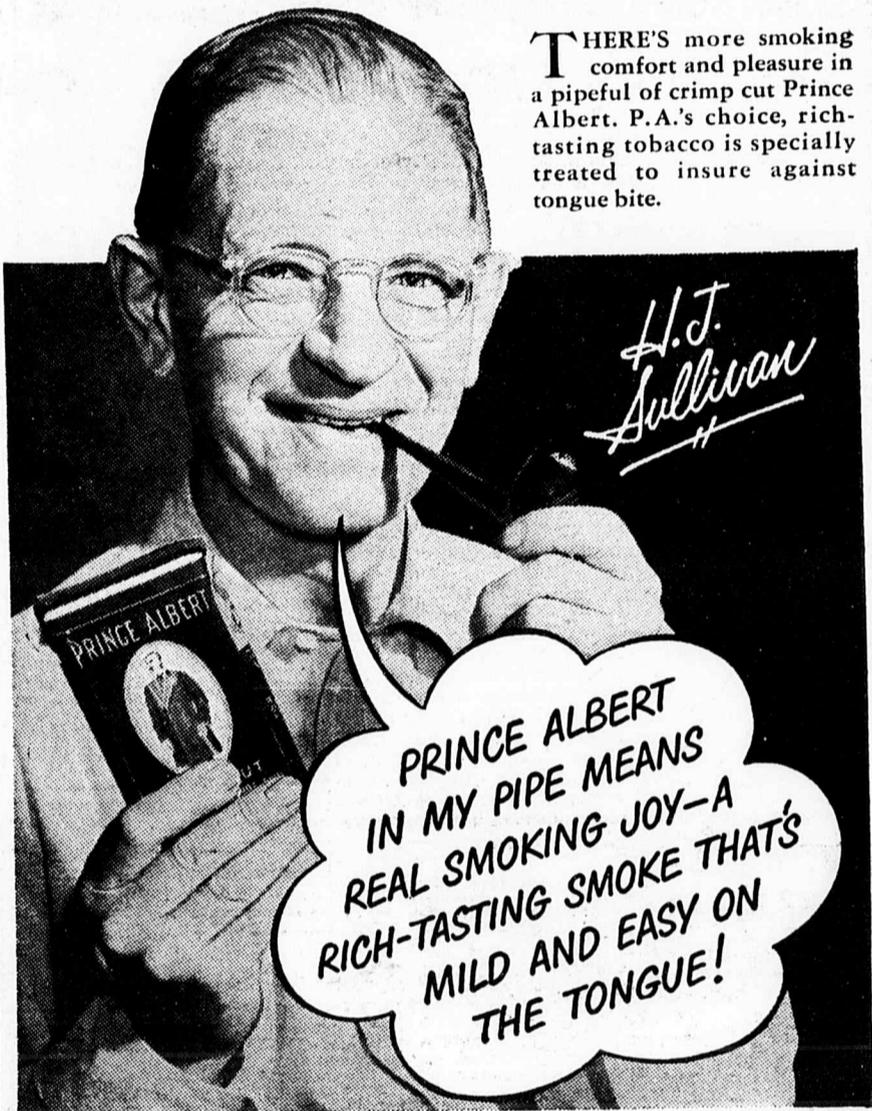
Keeps Oven Clean

To prevent pies from bubbling over, I insert a few pieces of macaroni thru the crust. These do not affect the flavor and can be removed before serving the pie.—J. D.

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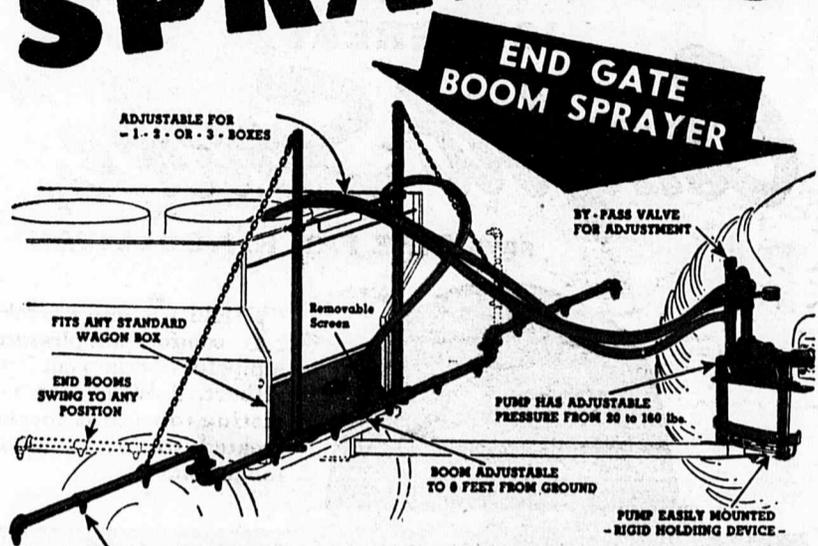
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To Improve Beef Cattle

Also Will Study Marketing of Feeders

By DICK MANN

A PROJECT to improve Kansas beef cattle thru breeding methods will be started at the Kansas State College Experiment Station during the next year. This announcement was made at the 35th annual Livestock Feeders' Day, May 1, by R. I. Throckmorton, dean of agriculture.

Purposes of the project, Dean Throckmorton said, would be (1) to develop a superior line of cattle, and to maintain a detailed record of its progressive development; (2) to determine practicability of inbreeding for the establishment of a superior line; (3) to develop testing procedures and other objective techniques for evaluation of breeding animals; (4) to collect data on the inheritance of physical characteristics of beef cattle.

"Good farming practices call for an increase in grass and forage," stated Dean Throckmorton. "It will, then, become increasingly important to develop a strain of beef cattle that will most efficiently utilize these roughages. In these studies, we will be especially interested in economy of gain, type, conformation and carcass quality." Dean Throckmorton explained that this type of research would take possibly 25 years to complete, and urged cattlemen not to expect results too soon.

Another new project to be launched, said Dean Throckmorton, will be a complete study of marketing feeder cattle and sheep in Kansas. This project will include every phase of production and marketing from producer to consumer. It will be aimed toward establishing practical and economic production, processing, and handling methods to aid in meeting grade standards which are bound to become more strict in the future. The project further will be aimed at reducing losses and de-

terioration that occur between the producer and the consumer with the hope of reducing the spread in prices between producer and consumer.

"One hundred pounds of ground corn-cobs are worth 50 pounds of shelled corn in fattening beef cattle," farmers were told by Paul Gerlaugh, chief, animal industry department, Ohio Agricultural Experiment Station, Wooster, Ohio.

Fattening calves and yearling steers fed corn-and-cob meal with a double portion of cobs, grew as well as those getting ground shelled corn and dressed out only slightly lower in percentage, he said. His conclusion was that the rumen of cattle is designed to handle rough feeds and more such feeds could be used economically without hurting the beef carcass weight or grading percentage.

The need for additional legislative appropriations was explained by Milton S. Eisenhower, president, Kansas State College. President Eisenhower said the college will need additional money for student support as war veterans graduate, more money for research, more state support for salaries for the extension division, and a new wing for the agriculture building.

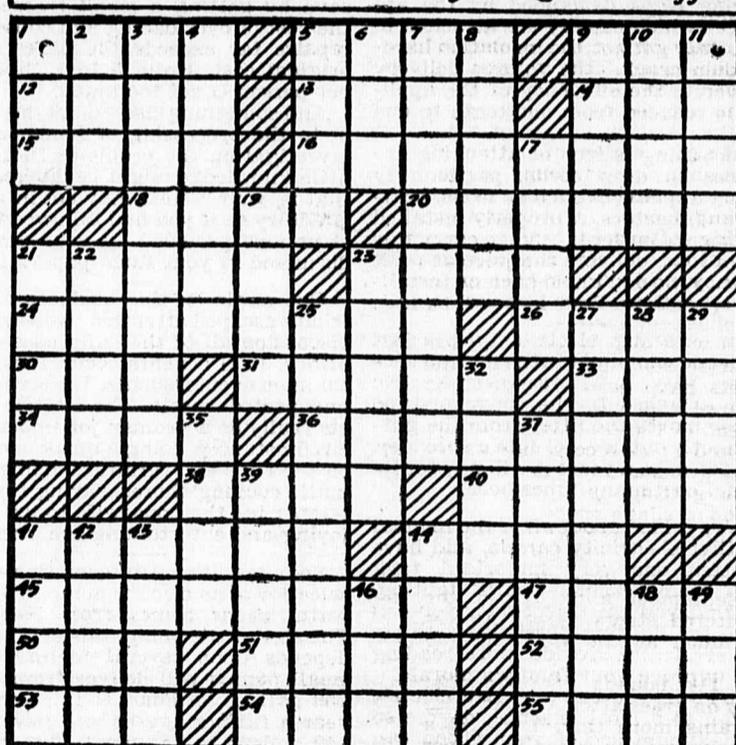
A. D. Weber, head, department of animal husbandry, reviewed research trends and accomplishments at the college, and C. W. McCampbell, professor of animal husbandry, reviewed the life of J. W. Robison, first president of the Kansas Livestock Association.

During the morning session, livestock men heard reviews on the various feeding experiments being carried on at the station.

One of these was on handling fattening heifers for summer or early fall

(Continued on Page 29)

CROSSWORD . . . By Eugene Sheffer



Average time of solution: 27 minutes. Dist. by King Features Syndicate, Inc.

- | | | | |
|--|---------------------------|--------------------|---|
| HORIZONTAL | 24. brave | 51. monkshood | 19. an Indian |
| 1. scene of military service | 26. aromatic plant | 52. eager | 21. diagonal |
| 5. vessel for producing light | 30. consumed | 53. oily liquid | 22. pier |
| 9. town in Belgium | 31. picture stand | 54. hollow | 23. niggard |
| 12. indigo-plant | 33. female hare | 55. a metal | 25. hanger-on |
| 13. opposed to a weather instrument | 34. a gem | | 27. adjustable |
| 14. teleost fish | 36. refresh | VERTICAL | 28. roar of surf |
| 15. cone of silver amalgam for retorting | 38. at a distance | 1. surpass | 29. ruminant |
| 16. guard | 40. written instrument | 2. Florida bird | 32. easy gait |
| 18. one-twelfth of a foot | 41. pineapple (S. Am.) | 3. Celegate | 35. Scandianavian |
| 20. not quite | 44. grasslike reed | 4. planing machine | 37. Hun |
| 21. more contemptible | 45. coarse-grained basalt | 5. beat | 39. practical unit of electrical capacity |
| 23. evils | 47. prima donna | 6. beer | 41. stum |
| | 50. herb eve | 7. marine fish | 42. new star |
| | | 8. leaf of corolla | 43. in the axil |
| | | 9. impel | 44. most excellent |
| | | 10. pare | 46. stannum |
| | | 11. partner | 48. by way of |
| | | 17. Persia | 49. append |

(Answer will be found on Page 31 in this issue.)

market. A comparison was made on full-feeding on grass or full-feeding in dry lot after grazing 100 days.

All 5 lots had been wintered on a full feed of silage, 1/10 pound of ground limestone daily, and salt. They also received various amounts of grain and protein supplements.

At the close of the wintering phase, one lot was continued on full feed in dry lot. Another lot wintered without grain was put on full feed in the dry lot following the wintering period. Three lots were grazed together on bluestem grass without grain until August 2. Two lots then were full-fed on grass until October 25 and one lot was full-fed in dry lot for the same period.

The lot grazed 100 days, then full-fed in dry lot showed the following advantages over the lot grazed then fed out on grass: Consumed about 1 1/2 bushels less corn; gained 52.5 pounds more in the 84-day period; sold for \$1.50 more a hundredweight; graded about 1 grade higher in the carcass; shrank less in transit; dressed slightly higher.

The combined wintering, grazing and feeding tests disclosed a definite advantage in favor of deferring full feeding of grain in order to use roughage and grass in fattening heifer calves for an early market. Where grass is not available a good wintering before full-feeding grain is desirable. Heifers full-fed from the start required about 100 per cent more corn than those wintered, grazed, then full-fed.

In another series of tests with fattening heifers, cottonseed meal, soybean meal, linseed meal and mustard seed meal fed as protein supplements during the wintering period produced about the same gains. Dehydrated brome grass and alfalfa pellets were compared with the oil seed meals. It takes 2 pounds of pellets to equal 1 pound of oil seed meals as a supplement. The tests showed.

These heifers will be carried on grass this summer to compare the effects of wintering with and without grain, and to determine the comparative advantages of full-feeding on grass or in dry lot following the grazing period. Some will get protein supplements on grass prior to full-feeding.

Study Pasture Results

The influence of winter rations and gains on subsequent pasture gains is being studied with 5 lots of choice steer calves. This experiment includes a study of the relative values of atlas silage, oats straw and combinations of these 2 roughages; one pound of cottonseed meal versus 4 pounds of alfalfa hay as a supplement to these roughages; feeding cottonseed meal on grass and its effect on late season gains and full-feeding results following the grazing season, and wintering yearling steers on bluestem pasture.

Two lots were fed out at the close of the first season's grazing, and the other 3 lots have been wintered and will be grazed a second season.

At the end of the first winter steers fed silage and 1 pound cottonseed meal gave larger gains and had more bloom than those getting oats straw or a combination of silage and straw.

During the early grazing period (until August 2) all lots gained about the same regardless of how wintered. In August, September and October the poorly-wintered steers gained almost twice as much as the well-wintered steers.

Adding 1 1/2 pounds of cottonseed meal a day on grass after August 2, increased gains more than 1 pound a day and increased appraised value per

hundredweight of animal 50 cents.

Steers fed 1 1/2 pounds cottonseed meal on grass made about the same gain as heifers fed 1 1/2 pounds cottonseed meal plus a full feed of grain on grass.

The lot poorly wintered the first winter went ahead of the well-wintered lot when caked on grass during the late grazing period. Prairie hay proved to be excellent roughage during the second wintering period when fed with silage. Steers wintered on bluestem pasture finished in strong condition and made more gain than expected. A double ration of cottonseed meal on grass every second day proved to be satisfactory for feeding on grass.

Two lots of 10 range-bred heifer calves were divided into 2 general grades (average good and low choice) and full-fed to study factors influencing rate of gain, quantity of feed consumed and carcass grade. The sort was made on the evidences of probable gains as indicated by body capacity, chest room, muscling, bone, and general appearance.

Both lots received the same kinds of feed, consisting of ground corn, cottonseed meal, and silage. Silage was replaced by alfalfa hay during May and June. Grain was self-fed.

Calves picked for their apparent ability to do well gained 48 pounds a head more, gained .23 of a pound more daily than those in the other lot and did it by consuming more roughage. Both lots consumed practically the same amount of corn. Carcasses of both lots showed about the same degree of finish.

Can Select for Gain

This test indicates that feeder cattle can be selected which will make more rapid gains and will utilize a greater proportion of roughages to concentrates per hundredweight of gain.

Experiments last year showed that mustard seed oil meal was an excellent protein feed for fattening pigs in dry lot, when mixed with tankage and other protein supplements and self-fed free choice.

This year, experiments on 5 lots of pigs self-fed shelled corn while on good alfalfa pasture were given mustard seed oil meal added in various proportions.

In all lots the cost of gains was the same or somewhat cheaper than where tankage alone was fed, and daily gains were somewhat more rapid, with a lower feed consumption.

Pigs receiving a mixture of 50 per cent tankage and 50 per cent mustard seed meal made the most economical and rapid gains.

Addition of loose salt self-fed free choice to pigs receiving shelled corn and a mixed protein supplement, made up of 40 per cent animal protein and 60 per cent plant protein in a dry lot, proved to be of no advantage.

Where loose salt was fed, daily gains were lower and feed cost per 100 pounds gain was greater.

To test the extent to which mustard seed oil meal could be substituted for tankage, this meal was fed in ratios of 85 per cent mustard seed oil meal and 75 per cent. Pigs getting the 85 per cent mustard seed meal and 15 per cent tankage as a protein supplement in dry lot made the most rapid and economical gains.

Dehydrated brome grass meal, testing 20.9 per cent protein, was fed to fattening pigs in comparison with dehydrated alfalfa meal. Those fed brome grass meal and tankage slightly excelled those getting dehydrated alfalfa meal and tankage. The dehydrated brome grass and alfalfa meals made up 10 per cent of the supplement.

Lamb feeding experiments reviewed at the Manhattan meeting were the same as those reported on previously at the Garden City Lamb Feeders Day. Results were published in Kansas Farmer following that meeting.

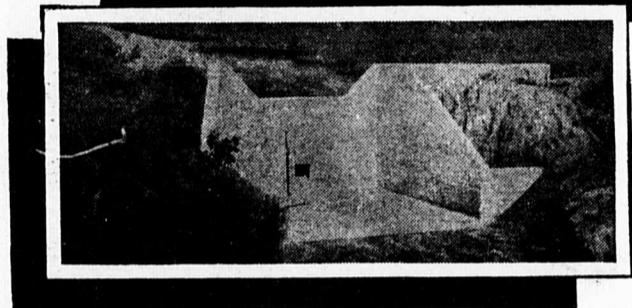
A Busy Camp

Rock Springs, the state 4-H Club camp, in Geary county, is going to be a busy place this summer. Thirty-three Kansas counties already have scheduled club camps, and 19 counties will send home demonstration unit groups.

The Collegiate 4-H Club opened the camping season May 1 with a picnic, followed by a family picnic May 8 by the Kansas State College Extension service.

Dates for 1948 state camps are: Rural youth, May 23 to 26; health, July 14 to 17; junior leadership, August 10 to 14; and conservation, August 23 to 27.

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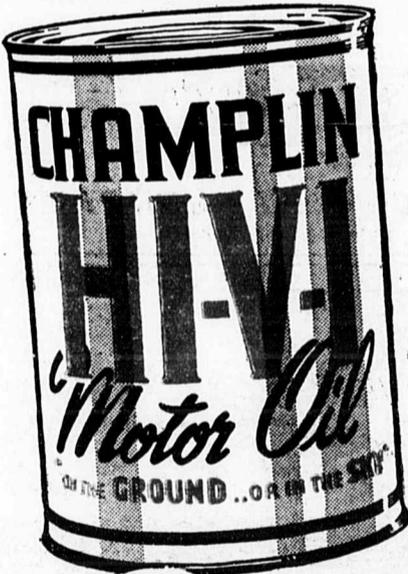


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Temperatures are variable during early Spring days. Frosty mornings and warm afternoons call for a Twin-Action Oil like HI-V-I.

But right now, check your tractor, tillage and seeding equipment. For chances are, you like thousands of other good farmers, are going to work more acres than you did a year ago.



Check bearings, chains, and other moving parts. See that they are properly oiled and greased. Replace badly worn parts now. Later may be too late. Drain the Crankcase and refill with the proper grade and weight of Champlin HI-V-I Tractor Oil for Spring. These are but a few timely hints.

Because this Spring's check-up is so vital, we suggest you let your friendly Champlin Dealer help you. He has many other good suggestions that will save you time, and insist on HI-V-I, the Motor Oil with . . .



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Battle Over Hope Bill

(Continued from Page 7)

siderable latitude to the Secretary of Agriculture in fixing support prices to meet situations as they arise, is in prospect.

Congressional opinion on just what the "modernized" parity price formula will be has not jelled. Probably will be built around the 10 most recent years' "moving" base, but tobacco people put a large crimp in the original plan of using one year's normal supply in the formula. Pointed out that tobacco has to be aged for from 2 to 3 years, and that means "carryover" for year—on one-year basis—would show surplus 2 to 3 times as large as it should be figured.

No further reductions of Federal taxes in sight from this Congress—except the repeal of the taxes on colored oleo before mentioned.

On the other hand, prospects are for increased taxes next year. Present tax propaganda stresses that the increases will be largely, perhaps entirely, in excess profits taxes. Chairman Knutson, of the House Ways and Means Committee, where tax bills originate, has announced no attempts will be made to reduce any excise taxes this session.

Uncle Sam is going to need the money.

Armed Services, now struggling along on 11 billion dollars a year, may easily double within 3 years. Certain to go up to 14 billion dollars for next fiscal year; maybe 18 billion dollars if the expanded airforce program really gets under way.

Despite White House denials—with escalator clauses—the United States is going to have a Lend-Lease program to re-arm Western Europe. Western Europe already is planning on several billions of Lend-Lease, so Washington is going to have to plan for it along with everything else.

Lend-Lease will be in addition to the 7 billion dollars of world assistance already scheduled thru the Marshall Plan.

Government will underwrite business boom for at least 2 more years. However, the boom will be for industry; general expectation is that food and farm prices are more likely to slide—unless inflation gets clear out of hand.

Rather severe shortages of seasonal farm labor are in prospect. Domestic labor employment in industry is at an all-time high. The preparedness—or armament—program will call still more men into industry.

Supply of foreign labor is expected to be shorter than last year. Some estimates are it will be cut in two. The Mexican government is making it more costly to bring in Mexicans by locating central offices 700 miles or so south of the border. Government, so far, is not assisting pay transportation costs. Employers insist that transportation costs are so heavy they cannot pay them, and have checked it informally to Senate and House Agriculture committees to get an appropriation for these charges. USES is keeping in touch with these committees.

Farmers needing seasonal labor are being advised to get in touch with local state employment offices; also those who will want Canadian combines and crews this summer. A limited number of these are being admitted, over protests of combine operators in the United States.

New Secretary of Agriculture due shortly. Having got stung on Wisconsin and Nebraska presidential primaries—no guesses on who will succeed Clinton P. Anderson.

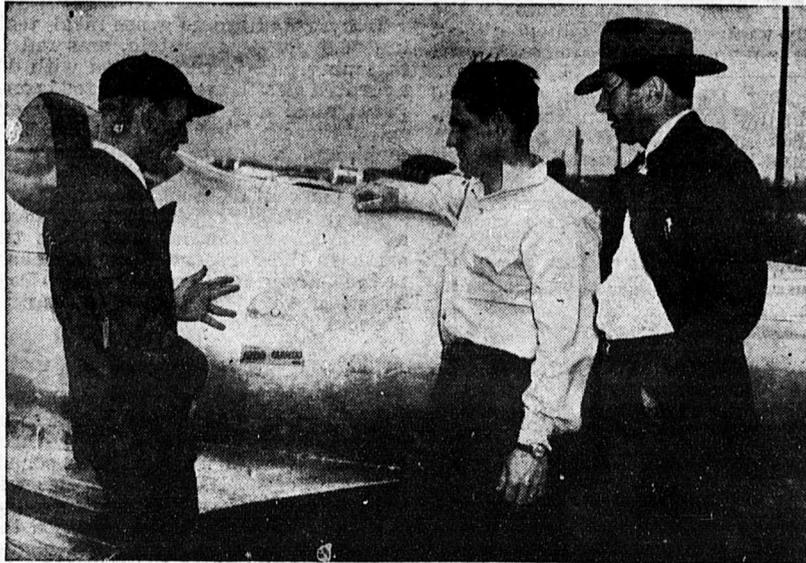
Flying Farmers Visit Missouri

THERE were 35 Kansas Flying Farmers who braved the high winds and unpromising weather reports to join the spring tour to Lebanon, Mo., April 24 and 25. Despite rough treatment by the elements, the receptions in Iowa and Lebanon made the effort well worth while, according to reports.

The Iola Chamber of Commerce and Kiwanis Club had a banquet planned for the flyers. The wind delayed the planes. Consequently the visitors missed the food and color movies of the Orange Bowl football game, played January 1, between Kansas University and George Tech. None missed the baseball game, however, between Iola and Topeka.

At Lebanon the Kansans had a good opportunity to meet with the Missouri Flying Farmers assembled for their annual convention. There was the dedication of Skyway 1 in the afternoon, a visit to dairy establishments near Lebanon, a banquet and program in the evening.

Here are the Kansans who registered at Lebanon: Marvin G. Moore, Byers; Wayne Hardy, Hopewell; Mr. and Mrs. William Janssen, McPherson; Mr. and Mrs. Ailiff Neel, Windom; Earl Hayes, D. F. Bradford, and Clifford Hayes, Zenith; Ralph Krey, M. C. Dionne and Talt L. Krey, Sylvia; Mr. and Mrs. Otis Hensley, and Jim Hurley Glasco; George Galloway, WaKeeney; Linsay Mars, Beloit; Donald J. Gerard and Louis J. Gerard, Syracuse; Paul E. Speer, Ronald Holmes and Ben Mull, Dighton; Aaron Fink and Lester Schroeder, Downs; Maurice C. Wray and Don Barnhart, Iola; Don von Schrlitz, Healy; Mr. and Mrs. Norman Clothier, Florence; Jim Cook, Lyons; Bill McDonald and Wilbur Dean Fry, Little River; Elmer Gihike, Delphos; Raymond Stewart, Fulton; and Charles Howes, Topeka.



Kansas flyers had a good time at Lebanon, Mo., when a delegation from this state visited the annual meeting of the Missouri group. This photo shows President George Galloway, WaKeeney, left; Elman Davidson, Burlington Junction, center, newly-elected president of the Missouri group; and Forrest Watson, Thomas, Okla., president of the National Flying Farmers Association. Mr. Galloway is showing them the decal on his ship which was designed for Kansas.

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Frame—Fabricated Electric Welded Steel.
Differential—Auto Type Drives From Both Wheels.
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Marketing Viewpoint

C. P. Wilson, Livestock; John H. McCoy, Feed Grains; Paul L. Kelley, Dairy Products; Joe W. Koudele, Poultry and Eggs.

I have some steers weighing 570 pounds which I bought at \$24.35 per hundredweight early last winter. When would be the best time to sell these steers?—A. L. V.

You did not indicate the quality of steers which you have but I assume that they are medium or slightly better. It would seem desirable to put them on grass for at least the early part of the grazing season. Cheap gains during the early part of the grazing season should offset any price declines which might occur during that period. There is little indication at this time of any weakness in the cattle market other than normal seasonal adjustments for stocker and feeder prices. It probably would be desirable to consider the possibility of marketing in August rather than going until the grazing season ends. It is too early to predict what the market will do late in the grass season. In many years, gains on grass after August are not sufficient to offset seasonal price declines for grass cattle after that date.

What is the support price for the 1948 wheat crop?—R. K.

The support price for 1948 wheat has not yet been announced. Under the present law, the support will be set at 90 per cent of parity as of either May 15 or June 15, and then it may be revised to 90 per cent of July 1 parity. According to the latest calculated parity price and expected trends from now until the support price is finally determined, it appears that the support price of wheat will be around \$2.20 per bushel in Kansas City.

What seems to be the outlook for demand for dairy products during the next few months?—R. S.

It seems probable that the demand for most dairy products will continue at a high level due to export demand and demand for storing at the present time. The high costs of production have curtailed milk production on farms to some extent, however. On April 1, of this year, output per cow was slightly less than a year earlier due to reduced rates of feeding.

Is it likely that the Government will support egg prices this spring?—W. D.

The Agriculture Department announced on May 4 that it will enter the egg market on May 11 in the first direct price-support operation for eggs this year. It will accept offers to buy dried eggs for delivery within 30 days. Driers who sell to the Government must certify that they have paid producers prices averaging not less than 35 cents a dozen for all shell eggs purchased. The minimum price paid to producers who deliver directly to the drying plant will be 37 cents a dozen. These support prices remain in effect thru June.

All Take Part

Each of the 1,555 home demonstration units in Kansas has taken part in some UNESCO activities. This has been done thru their study programs, thru pen friends overseas, and thru generous gifts to distressed persons in other lands, according to Georgiana Smurthwaite, state home demonstration leader, Kansas State College.

Answer to the Crossword Puzzle

See Page 28

C	A	M	P	L	A	M	P	S	P	A	
A	N	I	L	A	L	E	E	F	E	L	
P	I	N	A	S	E	N	T	I	N	E	L
I	N	C	H	H	A	R	D	L	L	Y	
B	A	S	E	R	M	A	L	A			
I	N	T	R	E	P	I	D	N	A	R	D
A	T	E	E	A	S	E	L	D	O	E	
S	A	R	D	R	E	N	O	V	A	T	E
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D	O	L	E	R	I	T	E	D	I	V	A
I	V	A	A	T	I	S	A	V	I	D	
T	A	R	D	E	N	T	L	E	A	D	

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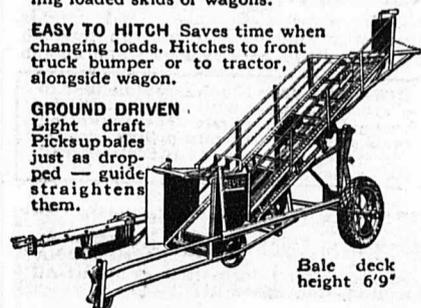
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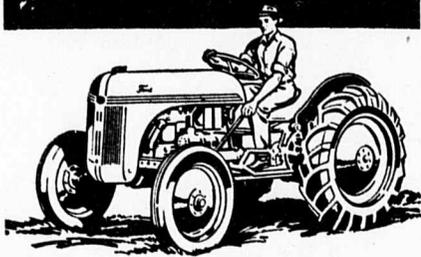
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Kansas Holsteins

(Continued from Page 6)

by breeders from many parts of the state. In addition to stirring up interest, it brought good foundation stock into the state.

Then, from 1930 until now the number of registered Holsteins has increased nearly 25 per cent. Consequently Kansas today has at least 50 per cent more registered Holsteins than does any other of the southwest states. Membership in the state association now is above the 500 mark, according to Secretary T. Hobart McVay, Nickerson.

Now look what has happened. Kansas Holstein men were somewhat removed from the big dairylands of the nation. Consequently, the demand for fancy show stuff was light. For the most part these were farm herds that had to make a living for the owner thru milk production. Dairy Herd Improvement Associations came along. These dairy farmers started testing their cows, culling out the ones lacking in efficiency. That program resulted in solid foundation stock that was able to produce milk and large quantities of it.

These dairy farmers recognized the fact that a definite relationship exists between type and production. As a result they became type conscious. Here is what has happened in the last 50 years. From a standing start, the state now ranks tenth in the nation in the number of registered Holsteins. And last year ranked fourth in the nation in the per cent of classified herds. See what Holsteins men have been doing?

Now the dairylands of the nation are no longer confined to the East and Great Lakes states. Kansas is in the dairyland. Kansas Holstein men saw an opportunity to improve their incomes with sales of highly bred bull calves and registered heifers and cows. Herd Improvement Records, HIR, and Advanced Registry, AR, were next on the list. With HIR and AR backgrounds for their cattle, Kansas Holstein breeders invaded the big-time markets.

It would be impossible in this space to make a thoro study of Holstein cow families in the state. But the most prominent Holstein names in the nation appear on the pedigrees of these Kansas-bred Holstein cattle. These breeders went in heavy for type and production because it was their way of making a living. Maybe not yet a way of "wearing diamonds," but at least making a good living.

Building on the Top Side

Now, in more recent years with the dairylands of the nation right at our feet, Kansas Holstein breeders are building on the top side of their pedigrees with herd sires whose lineage is unexcelled. The situation is perfect for Kansas to blossom out as one of the top, if not the top, Holstein state in the nation. There you have it. Good producing cows. Now herd sires from the big time.

It is interesting to study the pages of the Holstein-Friesian World, national magazine for the association. Look at the big names of our times. Look at Kansas pedigrees and you find they are star-studded with these same names.

But it would be only fair to point out any weak spots in Kansas Holsteins, if there are any. It seems that during the time when Kansas breeders were working for higher production and improved type in their strictly farm-bred herds, too little attention was given to test. Consequently test in instances was low. Even some of the best sires of recent years were unable to improve test even tho type and production were improved.

Nearly 20 years ago Kansas Holstein men were doing something about it, with carefully selected sires. And they are continuing down that road today.

Glance at a few of the herd sires now in use in Kansas. These animals are able to move in the finest circles of show animals in the country, and still come out with their share of blue ribbons. But, in addition they are able to transmit those necessary better milking qualities to their offspring.

Look first at HRW Homestead Pontiac Triune. He deserves a first look. He is owned by Heersche Brothers, of Mulvane, and E. B. Regier, Whitewater. He has been the All-Kansas aged bull the last 2 years and is unbeaten at the Kansas State Fair. Not only is he good himself, but so are his daughters.

Here is another: Pay Line Tess Pride, from a Kansas cow bred and developed

by R. L. Evans and Son, Hutchinson. This bull is owned and used by Mr. Evans and M. A. Shultz and Son, Pretty Prairie. Both herds are making the Progressive Breeder Awards.

Pride is by the excellent WIS Admiral Gem and from Payline Tess, also excellent. Payline Tess is a Kansas State Fair grand champion. She established a record of 828 pounds of butterfat on 2-times milking and a life record of 5,664 pounds of fat and 146,774 pounds of milk. And, her milk test was 3.9 per cent. Not the too often 2.9, 3.1 or 3.2 per cent.

This bull, too, has the ability to transmit these good qualities. His first daughters to freshen have hit an average in 80 days of 2,997 pounds of milk with 119.9 pounds of fat at the age of 2 years and 1 month, also on 2-times a day milking. And their test is 4 per cent. That is a Kansas-bred bull. See what is happening?

There are several herds in the state heavy with Clyde Hill breeding. And several sons of Rock River Hengerveld A.1, a gold medal sire, have been in Kansas herds. Some herds are going heavy on Crescent Beauty breeding. Others with Rag Apple and Burke strains.

An Impressive Record

There are at least 5 sons of the famous Wisconsin Admiral Burke Lad now in use in the state. That, too, is lending even more dignity to Kansas Holsteins. This gold-medal proved sire has an impressive record. His sons and daughters are taking a huge share of All-America honors, and he has won some blues himself. But more important is his transmitting ability.

Burke has 56, and only 56, Pabst bred daughters that freshened at Pabst Farms long enough ago to complete a year's record. They were entirely unselected after freshening and averaged 17,093 pounds of milk and 624 pounds of fat. The test was 3.6 per cent. That average was made at the age of 2 years and 4 months on 3-times milking for 365 days.

In addition to high test and good production, it is claimed that this Burke breeding produces good machine cows. The kind that react more favorably to the milking machine and cut labor costs materially.

Already one of the Kansas-bred sons from one of these Burke bulls has gone back to Wisconsin to sire a herd in that state. Also other bulls from this state have gone back to the so-called dairylands as herd sires, it is believed this is the first Kansas-bred sire to be returned to head a herd in Wisconsin. Yes, Eastern breeders can look west for Holsteins with good pedigrees.

There are many other herd sires that should be mentioned. One is ABC Homer Sovereign, sired by Montvic Rag Apple Sovereign, classified excellent and one of the leading bulls in Canada today. Also still too young to know what he will do, he has the background that should react favorably.

As it was impossible to identify the many cow families among Holstein breeders in the state today, so also it is impossible to identify the many outstanding bulls that are being crossed with that foundation stock. But those mentioned are a few and show what is going on in Kansas Holstein circles.

When the National Convention sale begins on June 3, about 70 Holsteins from the finest herds in the nation will be available to buyers. There still are 48 states in the Union, but Kansas breeders will supply more than one forty-eighth of the cattle for that sale. They will supply 7 head, or one tenth. That is how well Kansas Holsteins rate.

Those animals will be consigned from herds owned by the following breeders: H. A. Meier, Abilene; Harry Burger, Seneca; Ed Regier, Whitewater; Raymond Boleman, Edna; Jake Zarnowski, Newton; Leo Hostetler, Harper; and L. C. Gudenkauf, Sabetha. How good are these offerings? Chances are that anything less than \$1,000 will not touch them.

Yes, Kansas Holsteins are among the best in the nation. Their reputations have been established in a comparatively short time. But the foundation is solid—farm-bred cows that were selected for production. Now with HIR and AR records to back up their claims, and building up the top side of the pedigree to match the lower side, Kansas Holsteins really are in the limelight.

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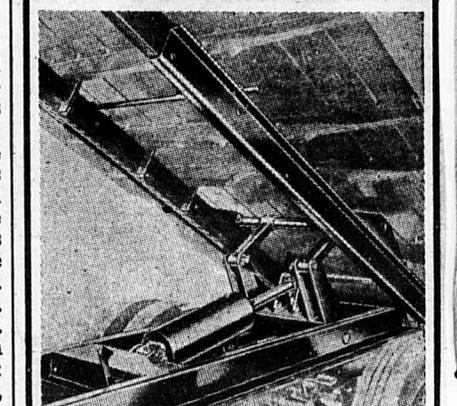
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"I'll Never One-Crop Again"

Says Mr. Lunt After Testing Balanced Farming

EVEN with improved cultural practices and better varieties, my wheat yields kept going down," says Harry Lunt, Pratt county farmer. He was telling us why he recently adopted a Balanced Farming program that calls for 135 acres of sweet clover every year.

Here was the situation on the Lunt farm at the time he decided something had to be done. "I was farming 6 quarters, lacking 40 acres," he explained, "and all of it was in wheat except some native pasture. I didn't have any livestock program; just bought in when they looked good and stayed out when they didn't. Wind erosion wasn't too serious but I was having serious trouble with water erosion. I noticed particularly that the soil lacked humus and the ground was getting so hard I could hardly dent it at times."

Two years ago Mr. Lunt attended a district Balanced Farming Planning Meeting, at Pratt. He listened to the various talks on fertility problems and the advantages of a balanced farming program. During the course of the meeting he worked out a program that he says "exactly fits my farm."

Mr. Lunt already had 2 quarters of his land terraced and was completing terraces on a third quarter. Since then he has established waterways on the rest of the farm and will finish terracing all 6 quarters this year.

His new rotation program calls for including sweet clover on all cropland 2 out of every 5 years, except for 35 acres of alfalfa that will be carried outside the rotation. Certified Madrid sweet clover will be used.

All clover will be preceded by maize or sorgo to give a better seedbed than would small grain. The sorghum crops also will provide a feed reserve for his livestock program, and will be used either in conjunction with wheat pasture or to substitute when pasture is not available.

When his program is in full swing, Mr. Lunt will carry 1,200 to 1,500 feeder lambs every year. Lambs will pasture his sweet clover the first fall and again the next spring. A seed crop will be harvested the second fall, after which that land will be seeded to wheat.

If the fall is unfavorable for wheat seeding he can go to oats the following spring or fallow. A one-fourth normal seeding of oats also will be sown with all sweet clover. Clover is being seeded at the rate of 10 pounds an acre.

Wheat pasture, when the seasons are favorable, will work in with the sweet clover pasture. Lambs will start on clover, then switch to wheat and stay there as long as weather permits. When winter weather is unfavorable, lambs will be put in the lot and fed the alfalfa, sorghum grain and sorghum silage planned for in the cropping system. Sorghum grain and alfalfa hay will be sold those years they are not needed.

So far, the Lunt program is working out very well. He had about 35 acres of sweet clover this last year and had no trouble getting it established. His clover acreage will be boosted to 90 acres this year and to the full 135 acres next year. "Last summer and fall was a pretty good test for whether sweet clover will survive dry weather," says Mr. Lunt. "It did so well I am convinced it is a sure thing."

While he prefers sheep to cattle, Mr. Lunt believes his program would work just as well with cattle or dairying.

Terracing has been very successful in stopping wind erosion as well as water erosion on the farm, reports Mr.



Harry Lunt, Pratt county farmer, left, and Hay Etling, county agent, check sweet clover seed before planting. Mr. Lunt's Balanced Farming program calls for 135 acres of sweet clover every year.

Lunt. "Terraces seem to break the sweep of the wind," he notes.

In studying the Lunt Balanced Farming program it is difficult to see how it could miss. Every possible condition seems to be provided for. "I know I'll never be a one-crop farmer again," states Mr. Lunt emphatically.

Ready for Layers

Have you neglected your poultry buildings in recent years? Most Kansas farmers have, believes M. E. Jackson, Kansas State College extension poultry specialist.

He suggests that remodeling be done during summer months, so laying houses will be ready for new pullets in the fall. "To make work with the flock easier," says Mr. Jackson, "install droppings pits, compartment-type nests and, if possible, an automatic water system."

Feeding is one of the big chores, so a feed room in the laying house increases efficiency, states the specialist. "Planning a program will reduce labor and time involved in caring for the laying flock," Mr. Jackson explains. Plans and suggestions to make poultry production easier and more profitable may be obtained from county agents, hatcherymen, or from the college, he adds.

Key to Yields

"The agricultural land of the world can feed and clothe the people for many years to come," states L. C. Williams, dean and director of the Kansas State College Extension service. "But," he adds, "only if producer, distributor and consumer all are able and willing to do their part efficiently."

"There is little new land to bring into production, but there are great possibilities of building up the production of acres now tilled," Dean Williams says. "This still is a land of opportunity. Contour farming, protected summer-fallow, crop rotation, and commercial fertilizers are keys to increased yields."

With more than half of the world's people hungry and millions starving, Dean Williams believes higher agricultural production is possible, practical and profitable.



Mr. Lunt and Mr. Etling look over some of the feeder lambs being handled this year. The Lunt program eventually calls for 1,200 to 1,500 lambs a year.

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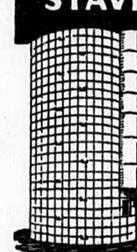
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IN THE FIELD



Jesse R. Johnson
Topeka, Kansas
Livestock Editor

and **MIKE WILSON**, Livestock Fieldman,
Muscotah, Kansas.

A great deal of interest was shown in the registered Ayrshire sale held April 26 at the PERKINS FARM east of Nevada, Mo. The offering consisted of 70 head of Canadian Ayrshires brought to the states by C. C. McGENNIS, of Rich Hill. The offering sold for \$20,600 with everything averaging around \$300, including calves.

Two of the top cows were purchased by A. G. Cogswell, El Dorado, Kan.—lot 65 for \$480, and lot 58 for \$400. J. W. Cummings, of Nortonville, Kan., took the lot 54 cow at \$420, and the lot 29 yearling bull at \$300. The lot 31 cow went to Owen Peterie, of Humansville, at \$410. The top bull, a yearling, lot 24, went to G. Newell, Rockville, at \$340. Six bulls averaged \$231. Eight little heifer calves, less than 6 months old, averaged \$160. Fifty-two head of the offering stayed in Missouri with 17 head going to Kansas.

This was one of the first sales of its kind to be held in Missouri and the results were gratifying. Much progress is expected to be made with this breed in Missouri during the next few years.

R. O. Biggs, of Dundas, Ontario, Canada, selected this offering of cattle and was on hand to read the pedigrees. John Chambers represented the National Ayrshire Association. The sale was sold and managed by Donald J. Bowman, of Hamilton, assisted by Col. C. C. McGennis who sold part of the offering, and the Welty Brothers, of Nevada. Many prominent Ayrshire breeders from several states were present. Mr. McGennis hopes to bring more registered Ayrshires to the states.

ROY L. HUBBARD, who held a dispersion sale at the farm near Emporia, April 30, reports a very satisfactory sale from every standpoint. Weather very good and about 400 in attendance. The best buyers were Clarence L. Michaels, Kinsley, who bought one cow at \$402.50, one for \$340, and one for \$325. Paul Bohning, Beloit, bought one at \$400, one at \$350 and one at \$279.50.

The top female went to Harlan R. Phillips, Denison, at \$425. The herd bull sold for \$350. Robert Nelson, of Windom, was the buyer. Every animal stayed in Kansas. Only 4 milking cows stayed in the home county, but local buyers took many heifers. The general average on 68 head, including baby calves, was \$205.55. This was one of the best herds of grade Holstein cattle to be dispersed in this part of Kansas for a long time. Bert Powell was the auctioneer.

EARL MARTIN & SON'S Duroc sale, DeKalb, on April 26 attracted several Kansas Duroc folks interested in fall-farrowed boars and gilts. Boars topped at \$100 and gilts at \$110. Two boars sold for \$100 each and they both went to Kansas buyers. O. A. Tenant, Manhattan, purchased one and Allen Ketter, Paola, the other. Theodore Biasa purchased one of the better boars of the sale. An average of \$70 was made on the boars and gilts sold. Missouri buyers took most of sale offering.

The offering was mostly sired by their good boar Progress and sold in just good breeding condition and a higher average was justified. Buyers were thinking in conservative terms and many good buys were made during the auction. Auctioneers were Bert Powell and Earl Kearns.

Sale manager **CLARENCE C. ERICSON** reports a very satisfactory Aberdeen-Angus district sale held at Iola, April 9. The offering was of better quality than in preceding sales. The day was not the best from the standpoint of weather. And only 250 were in attendance. The 51 head brought a general average of \$290, including several rather young cattle. R. S. Wilkerson, of Pittsburg, paid the top price for bull, \$750, and S. A. Odell, of Hume, Mo., bought the highest-price female at \$440. One cow with calf at foot sold for \$625. The bull average was \$389 and the average of females \$262. Mr. Ericson says the animals under 1 year old should have brought better prices. Keith Swartz, of Everest, judged the cattle before the sale.

Concerning his recent dispersal sale of Jersey cattle, **ELMER L. REEP** writes as follows: A good sale, well pleased with Kansas Farmer advertising and results. All but 5 of the registered cattle went outside of Sedgwick county. The day was nice and warm, about 150 buyers and visitors in attendance, bulls averaged \$250. The buyer was Billy Stein, of Wichita, for a 6-month-old calf. The females averaged \$249.50 with a top of \$540, paid by Mr. Stein. The entire offering averaged almost \$250, the 20 head of registered cattle averaged \$280.25, including many calves 3 and 4 months old. Grades averaged \$216. Ten buyers took the entire offering. Boyd Newcom was the auctioneer.

About 400 buyers and other interested Hereford cattlemen attended the **JANSONIUS BROTHERS** Hereford sale, held at Phillipsburg, on April 20. The weather was fine and local buyers plentiful. The bulls averaged \$270 and the average age of all sold was 12 months. The top bull sold for \$350, and went to E. L. Knight, Norton. Female average was \$291 with a top of \$500, paid by John E. Vetter, of Beloit. The 58 head averaged \$281, a total price of \$16,322.50. All 3 head went back to Kansas farms and herds. Fred Chandler was the auctioneer.

The Dodge sale pavilion, near Greenfield, was packed to the rafters with buyers on April 21 at the **HONEY CREEK** registered Aberdeen-Angus sale. The cattle were owned by **ALBERT G. GODFREY**, of South Greenfield, and this was his first draft sale. The bidding was active with the cattle going to a good many different buyers with most all the offering staying in Missouri.

Fifty-six lots sold for \$15,400 with an average of \$275. Fifteen bulls, many just big enough for light service, sold for an average of \$223, with 41 females averaging \$293. The cattle were in ordinary breeding condition and sold quite uniformly in price. The price of \$300 was reached twice on bulls of lots 46 and 49, both spring yearlings. Lot 46 went to G. C. Martin, of Flemington, and lot 49 to G. Glen Barcus, of Carthage. Lot 13 female was the top of the day, going to

Howard Johnson, of Neosho, for \$410, who also bought lot 29 female at \$400. These both were cow and calf combinations. C. Griffith, of Stockton, bought lot 5 female at \$375. Col. Roy Johnston and Ray Sims of Belton, sold the sale, assisted by Cols. Willard Dodge, Tommy Carlton, and Connie McGennis and men of the press. Donald J. Bowman of Hamilton, managed the sale for Mr. Godfrey.

The **MID-KANSAS DUROC ASSOCIATION** was organized by a group of 25 leading breeders in a meeting held at Hutchinson, on April 26. The following officers were elected. Ralph Schulte, Little River, president; Herman Popp, Haven, vice president, and Ward Lehman, Halstead, secretary-treasurer. The new organization plans to hold a show and 4-H judging contest in connection with a fall and gilt sale to be held sometime in October. Newton has been chosen as the place for holding the show and sale. Also a bred sow and gilt sale will be held early next year in January or February.

Public Sales of Livestock

Aberdeen-Angus Cattle
June 7—Chester Davidson, Rocky Comfort, Mo.
Ayrshire Cattle
May 31—Imported Ayrshires from Canada, Omaha, Neb. H. C. McKelvie, Sale Mgr., Omaha, Neb.

Guernsey Cattle
May 27—Jack Ewton, Bilketh Farms, Shawnee, Okla.
October 15—State Guernsey Breeders' Annual Sale, Fair Grounds, Hutchinson, Kan.

Hereford Cattle
October 15—Frank R. Condell, Dellford Ranch, El Dorado, Kan.
November 17—Wabaunsee County Hereford Breeders' Association, Alma, Kan.

Holstein Cattle
May 26—Jack Ewton, Bilketh Farms, Shawnee, Okla.
May 27—Harry Weisenborn, St. Joseph, Mo.
June 3—National Convention Sale—Kansas City, Mo. Art Peterson, Sale Manager, Oconomowoc, Wis.

October 25—Kansas State Holstein Sale, Abilene, Kan. H. A. Meier, Abilene, Kan., Chairman Sale Committee.

Shorthorn Cattle
June 5—Time 10 A. M.—Miles Of View herd dispersal at Merryvale Farm, Grandview, Mo. Mervin F. Aegerter, Sales Manager, Seward, Neb.
June 5—Time 1:30 P. M.—Merryvale Farm, Grandview, Mo. Mervin F. Aegerter, Sales Manager, Seward, Neb.

Milking Shorthorn Cattle
May 28—Arnold C. Reimer, Canton, Kan.
June 21—Chester and Crystal Davidson, Rocky Comfort, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.

Sheep—All Breeds
May 17—Kansas State Sheep Sale—Hutchinson, Kan.
June 25-26—Midwest Stud Ram Show and Sale, Sedalia, Mo. Rollo E. Singleton, Sales Manager, c/o State Department of Agriculture, Jefferson City, Mo.

Keep Dairies Clean

It takes more than clean utensils to keep the bacteria count of milk low. It may also require conditioning of the air in milk rooms and milk parlors. That point was brought out recently after Dr. T. J. Claydon, associate professor of dairy husbandry, Kansas State College, completed studies of possible contamination from the air. Common and scientific practices of dairy-plant operators have been only partly successful in keeping all foreign matter out of dairy products. Doctor Claydon examined air-borne dust from 150 locations near creameries, cream stations and farms, and 39 samples of material found on ledges and rafters of these buildings. He found a high per cent of samples contained material decidedly undesirable in dairy products. The presence of such material as coal dust, sand, cloth fibers, rodent-type hairs and feather parts strongly suggested the air as a source of contamination to cream, milk and butter. Air-borne materials and not direct contamination seemed to be the source of this foreign matter.

As control measures Doctor Claydon emphasized tight container lids, air conditioning for filtering of air, and general good housekeeping and sanitation.

Improvement School

Some 200 persons from over a wide area attended a 2-day Farmstead and Home Improvement School, at Downs, according to Richard Poch, county agent. The school was sponsored by the Osborne county Farm Bureau and the Extension service, assisted by the Downs Chamber of Commerce.

Prior to the school, Kansas State College specialists visited the farm homes of Lee Stephenson, William C. Robinson and Herman Ramaker, of near Downs, and Ed Smith, of near Alton. These farms were analyzed and suggestions made for remodeling homes and farmsteads.

Subjects covered at the school included planning the farmstead, wind-breaks, house planning, planning for electricity, water supply and water systems, sewage disposal, leak-proof basements, insulation, home heating, and easy methods of doing things in the home.

SPEAR-TOON



"Why ruin your health trying to lay double yolks."

HEN TALKS!

Old Mother Hen went to the pen
But she found the hopper was bare
She was so disconcerted,
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Improved, Bloodtested White, Barred Rocks, Reds, Wyandottes, \$7.95. Pullets, \$12.95. Cockerels, \$8.95. Austra-Whites, White Leghorns, \$7.95. Pullets \$12.95. Started \$39.95. Assorted Heavies \$7.45. Mixed assorted, \$6.95. Leftovers, \$5.95. Surplus Cockerels, \$4.95. Barnyard Special, \$3.95. Odds-Ends, \$2.95. 100% FOB. No catalog. Order direct. Thompson Chicks, Springfield, Mo.

Superfine Chicks — Fifteen breeds, including White Giants, Black Giants, Buff Minorcas, Silver Laced Wyandottes, Anconas, Black Australorps, Buff Orpingtons, Buff, Barred and White Rocks, New Hampshires and Rhode Island Reds and Leghorns. Free literature. The Thomas Farms Hatchery, Pleasanton, Kan.

Coombs Leghorn Chicks. 250-322 egg sired, 28 consecutive years. Austra-White chicks from outstanding ROP strains. Kansas State College strain White Rock chicks. 200-275 egg pedigree sired. 100% fast feathering. Hy-Line chicks, new kind bred like hybrid corn. Free circular. Write: Coombs & Son, Box 6, Sedgwick, Kan.

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Certified Gibson Soybeans
Germination 90%. Purity 99.29%. Price \$6.00 per bushel at farm on F.O.B.
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Germination 87, purity 99.5. Best feed and grain insurance against drought. Outyields 8 bushels per acre in state tests 10 days earlier. Produced 47 bushels reclaimed seed per acre in dry year of 1947, corn produced 23 under like conditions. "To be sure of something, plant Axtell." 14c at farm, 15c F.O.B. H. S. MILLER, Morrill, Kan.

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400 Acres, 4 1/2 miles town, good road, 160 plow, 240 fine blue-slate pasture, well improved, good water by wells and springs. \$45 per acre. T. B. Godsey, Emporia, Kan.

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Vegetable Plants—Large, stalky, well rooted, hand selected, roots mossed. Tomatoes—Earliana, John Baer, Marglobe, Bonny Best, Rutgers, Stone, 200—75c; 300—\$1.00; 500—\$1.25; 1,000—\$2.25. Cabbage—Wakefields, Dutch, Copenhagen, 200—40c; 300—55c; 500—\$1.00; 1,000—\$1.75. Onions—Bermuda, Sweet Spanish, 500—\$1.00; 1,000—\$1.75. Pepper—California Wonder, Chinese Giant, 100—50c; 300—\$1.00; 500—\$1.50; 1,000—\$2.50. All postpaid. Prompt shipment. Satisfaction guaranteed. Culver Plant Farms, Mt. Pleasant, Texas.

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Nancy Hall Porto Rico Sweet Potato Plants

Fresh green plants, prompt shipment and satisfaction guaranteed. Prices F. O. B. Send No Money With Your Order.

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200	\$1.00	500	\$1.90	
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SON BROTHERS PLANT FARM Sharon, Tenn.

SWEET POTATO PLANTS Pink Skin Porto Rico and Nancy Hall

200	\$1.00	1,000	\$2.75
500	\$1.50	5,000	\$12.50

Good plants, full count, safe arrival.
JONES PLANT FARM, SHARON, TENN.

Porto Rico Nancy Hall POTATO PLANTS

Ready now for shipment. Place your order now for May and June. Plants guaranteed to reach you in good condition.
300 \$1.25 1000 \$ 2.75
500 \$1.50 5000 \$13.00
We pay postage.
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Look 10,000,000 State Certified Potato Plants. Grown on new ground from hand selected, No. 1 Certified Seed. Many of our customers come to our farm for their plants. Our plants must be good, as everyone who sees our plants and the kind of potatoes they grow from says they are the best plants they have ever seen. Grown from the best uniform seed. Plants grown from State Certified hand selected potatoes, like we had for plants here at North Texas Plant Farm, will produce many more bushels of No. 1 potatoes per acre. Why take chances on your potato crop this year with cheap inferior plants. All plants open field grown. We do not grow hot bed plants. Red Velvets, Nancy Halls, Portoricans, Yellow Yams, 100—50c; 300—\$1.25; 600—\$2.00; 1,000—\$3.00; 5,000—\$14.00. All prepaid. Million blooming size Tomato Plants, Cabbage, Onions, Pepper, Cauliflower, Broccoli, Brussels Sprouts, Asparagus, Lettuce, Beets, Dill, Collards, Eggplants, all leading varieties. All big, tough plants ready for field setting. Mixed anyway wanted, 50 to bunch, 100—50c; 300—\$1.00; 700—\$2.00; 1,000—\$2.75; 5,000—\$12.50. Prepaid. Any above plants extra large size, 100—\$1.00; 300—\$2.00; 600—\$3.50; 1,000—\$5.00. Prepaid. All plants pulled, packed, and shipped same day, in special plant containers. Roots treated, mossed. Guaranteed satisfaction. Take no chances with your garden. Write, wire or call. North Texas Plant Farm, Franklin, Texas.

Sweet Potato Plants—Nancy Hall and Porto Rican. Millions now ready. 300—\$1.00; 500—\$1.40; 1,000—\$2.50; 2,000—\$4.75. We guarantee prompt shipment with extra nice plants. Farmers Plant Co., Gleason, Tenn.

Sweet Potato Plants, Golden Yellow Nancy Halls, Pink Skinned Portoricans, 300—\$1.00; 500—\$1.50; 1,000—\$2.50. Wholesale Plant Co., Gleason, Tenn.

June 5 Will Be Our Next Issue

Ads for the Classified and Livestock Section must be in our hands by

Saturday, May 29

If your ad is late, send it in Special Delivery to 912 Kansas Ave.

Livestock Advertising Rates
1/2 Column inch (5 lines) . . . \$3.00 per issue
1 Column inch 8.40 per issue
The ad costing \$3.00 is the smallest accepted.
Publication dates are on the first and third Saturdays of each month. Copy for livestock advertising must be received on Friday, eight days before.
JESSE R. JOHNSON, Livestock Editor
MIKE WILSON, Fieldman.
Kansas Farmer - - Topeka, Kansas

RELIABLE ADVERTISERS ONLY ARE ACCEPTED IN KANSAS FARMER

Trend of the Markets

Please remember that prices given here are Kansas City tops for best quality offered:

	Week Ago	Month Ago	Year Ago
Steers, Fed	\$31.00	\$30.00	\$26.50
Hogs	21.00	21.75	24.75
Lambs	28.75	26.25	25.25
Hens, 4 to 5 lbs.	.21	.22 1/2	.21
Eggs, Standards	.38 1/2	.41 1/2	.39
Butterfat, No. 1	.76	.76	.54
Wheat, No. 2, Hard	2.83 1/2	2.75 1/2	2.73 1/2
Corn, No. 2, Yellow	2.30	2.41 1/4	1.76
Oats, No. 2, White	1.27	1.37	1.01 1/2
Barley, No. 2	1.80	1.91	1.56
Alfalfa, No. 1	37.00	37.00	35.00
Prairie, No. 1	16.00	16.00	27.00

You're Especially Invited to Attend
MERRYVALE FARM'S SHORTHORNS Invitational Sale
75 Lots Sell JUNE 5 at the farm, Grandview, Missouri



GOLDEN OAK MISSIE 7th—A daughter of Prince Peter with a Roan heifer calf at foot, sired by Calrossie Supreme and remated. This pair from MERRYVALE FARM is just one of the 55 lots of outstanding females selling in this sale.



M F SUPREME 5th—A son of Calrossie Supreme and out of Rosewood 80th. Reserve Champion Bull at 1947 American Royal Livestock Show. He is just 1 of the 15 good young bulls that MERRYVALE sells in this sale.

If you are wondering where to find your next herd bull, brood matrons or replacement heifers, this is the sale for you to attend. You will have the opportunity of choosing from positively one of the best Shorthorn Sale line-ups in 1948. 22 top-notch herd sire prospects and 53 breedy females.

MERRYVALE FARM'S offer 50 Lots, 15 young bulls and 35 females, featuring the get and service of the imported bull, Calrossie Supreme, whose calves are the best ever dropped on the farm. Most of the MERRYVALE females either have calves at foot or well forward in calf. This is the best group of cattle ever offered by this firm. In addition they have invited the following breeders to join them with top representatives from their herds:

W. A. COCHEL—Owner of Roanridge, Parkville, Mo., sells 2 great young bulls, Roanridge Major Mercury, full brother to the \$7,000 and twice International Reserve Champion, Sni-a-Bar Randolph and Roanridge Royal Mercury by Roanridge Mercury.

HAROLD VAGTBORG—Lenexa, Kan., sell the 2-year-old bull, M. F. Command 4th by Beaufort Command.

D. W. BISHOP—Gashland, Mo., sells 4 daughters of Sni-a-Bar Air Lord by Crugleton Aspiration. All will be mated to Merryvale bulls.

WILL-O-PAT FARMS—Opolis, Kan., sells 2 bulls and 8 heifers sired by the \$5,000 New-allyn Inn and Westmorland Supreme.

JAMES P. KEM—Kansas City, Mo., sells 1 bull by M. F. Goldfinger; another by Calrossie Supreme. Six females mated to Calrossie Supreme. Included are a daughter of Calrossie Prince Peter and one of Edellyn Campeon Mercury.

The MERRYVALE SALE will start promptly at 10:30 A. M. Please note that the MILES-OF-VIEW HERD will be dispersed in the MERRYVALE Sale Pavilion immediately following the MERRYVALE Sale, all on June 5.

POSITIVELY ONE OF THE BEST SALE LINE-UPS IN 1948
 For the beautiful, illustrated catalog and other information address
MERVIN F. AEGERTER, Sale Manager, Seward, Nebr.
 Aucts.: J. E. Halsey and Hamilton James Bert Powell representing this publication.

Here They Are—"The kind of good Shorthorns you have been wanting."
MILES-OF-VIEW SHORTHORN DISPERSION SALE
JUNE 5 at MERRYVALE FARM, Grandview, Missouri



BASILIDON RANSOM—Five-year-old imported Miles-of-View herd sire, a splendid individual whose calves recommend him. This bull was used some in Scotland, before the Miles-of-View purchase and a son sold for \$5,000 in the 1946 Perth sale.



AUGUSTA BELLE 3D—A beautiful red Canadian-bred daughter of Blythewood Corp's Command by the international grand champion, Campbell's Command. Has a solid red heifer calf at foot by Basilidon Ransom and remated to the same sire. One of the many excellent values in this sale.

SELLING 12 BULLS, 65 FEMALES—The entire MILES-OF-VIEW HERD, owned by C. J. Giblin, Kenneth, Kan., sells in the MERRYVALE FARM Pavilion immediately following the MERRYVALE FARM Sale, which starts at 10:30 A. M. on June 5. Breeding that is proved in individuals that look good and do well can be said about this complete offering.

BULLS—12 Head, including the 2 herd sires; Imported Basilidon Ransom and Prince Peter 4th. Other real herd sire prospects, including 3 sons of Basilidon Ransom, one of Gosshall Zealous and 4 sons of Miles-of-View Mercury, top breeding son of the great Edellyn Campeon Mercury. These young bulls are not highly fitted, but are the right bloodlines and individuality to make herd sires.

FEMALES—Only 4 head calved before 1942. There are 4 daughters of Calrossie Prince Peter and a great many granddaughters thru his top sons. Included are 15 young Canadian-bred cows acquired at about the time of the purchase of Basilidon Ransom. Others are by Scotstan Airman, Crugleton Aspiration and Millhill Senator. The 13 bred heifers and 11 open heifers are mostly by Miles-of-View Mercury and Basilidon Ransom. There are 12 cows with calves at foot and 29 cows near to calving.

Please Note—The Sale will be held at MERRYVALE FARM, Grandview, Mo., where the cattle will be moved about a week ahead of sale date. The cattle can be inspected at MILES-OF-VIEW FARM, located 1 mile west and 1/2 mile south of Martin City, Mo., prior to the above date.

For the catalog and other information please address,
MERVIN F. AEGERTER, Sale Manager, Seward, Nebr.
 Aucts.: J. E. Halsey and Hamilton James Bert Powell representing this publication.

Beef CATTLE

BEEFMAKER BULLS
(Aberdeen-Angus)

Have become a fixed type in the opinion of good judges. They do well for others. Come see them.

C. E. REED
 4114 East Central Ave., Wichita 6, Kan.
 Telephones 6-8313 residence; farm 5-3868

Angus Beef Is Best

You can raise better beef if you breed and feed Aberdeen-Angus. Forty times in 42 Chicago International International carcass contests, Angus beef has won the grand championship. Proof that Angus beef is best. More Angus breeders are needed to supply the growing demand. Write for free literature, American Aberdeen-Angus Breeders' Assn., Dept. KF, Union Stock Yards, Chicago 9, Ill.



REGISTERED ABERDEEN BULLS

13 to 15 months old. Bell Boy breeding. Good quality
OSCAR E. NELSON
 Garfield (Pawnee county), Kan.

HOGS

LATE FARROWED HAMP. BOARS

Wt. 150 to 225 lbs. Registered, vaccinated, and crated. \$75 to \$150 F.O.B. Hiattville. Mail a check. Selections guaranteed.



O'BRYAN RANCH Hiattville, Kansas

BERGSTEN'S

Improved Hampshires

Now offering outstanding Fall Boars. Immune and registered. New breeding for old customers.

R. E. BERGSTEN & SONS, Randolph, Kan.

ETHYLEDAL FARM Herd Sires: Bright Glory, Spottite Supreme, Spottite Jr. Gilts bred for March and April farrow, sired by a choice set of young boars.
PRODUCTION HAMPSHIRE Dale Scheel, Emporia, Kan.

SPOTTED POLAND CHINA BOARS

Ready for service. Sows and gilts sired by or bred to Buster Boy and his helper, Advancer Grandview Supreme. Weaning pigs champion breeding. **DALE KONKEL, Haviland, Kansas**

Reg. Spotted Polands

Fall Boars. Gilts bred to "Pawnee Sunset." Immune. Write or visit. **SUNNYBROOK FARM, H. E. Holliday, Owner, Richland, Kan.**

Reg. Spotted Poland Weaned Pigs of both sex. \$28 with papers furnished. \$25 without. Will ship express collect.
HARRY LOVE, Rago, Kan. (Kingman Co.)

Bauers Offer Polands

For sale now—Fall Boars and Fall Gilts. Write for prices.
BAUER BROTHERS, Gladstone, Nebraska

YORKSHIRE HOGS

The lean-meat, post-war breed. Bred gilts, unrelated pigs. Write for illustrated circular.
Yalehurst Yorkshire Farms, Peoria, Illinois

Duroc Fall Boars—Fall Gilts

Sired by Dream King, length, thickness and deep wide hams. The accepted type.
WREATH FARM, Manhattan, Kan.

DUROC FALL BOARS AND GILTS

Registered and immuned. Shipped on approval. Guaranteed.
WILLIS HUSTON, Americus, Kan.

Shepherd's Superior Duroc Boars

Sired by Lo-Thickmaster and Super Spotlight, great boars — sire the thick-lowdown, big hammed, deep bodied, real quality kind. Reg. Immuned. Write or come.
G. M. SHEPHERD, Lyons, Kan.

CHOICE DUROC BOARS

The low down blocky kind. Registered, double immuned and shipped on approval. Write for low prices.
CLARENCE MILLER, Alma, Kan.

DUROC BRED GILTS AND BOARS All Ages. By Top Crown by the Illinois Champion Crown Prince. Satisfaction or your money back. Best we ever raised.
BEN M. HOOK & SON, Silver, Lake, Kansas

INVEST YOUR MONEY SAFELY
During 1948

Continue Buying United States Savings Bonds

A Good Return

Research costs of only \$200,000 a year have brought wheat farmers added returns of 25 million dollars a year for the last 15 years, states Dr. H. H. Laude, chairman of a 9-state committee for research on hard winter wheat in the Great Plains area.

The estimated 25 million dollars increased wealth from wheat, says Doctor Laude, is from increased yields of 10 varieties introduced in the last 15 years. Planted on 12 million acres, they added 25 million bushels to the annual yield. A price of \$1 a bushel as an average price was set to arrive at the 25 million dollars increased wealth.

Doctor Laude's committee lists 5 types of problems that need to be attacked in a co-ordinated research program. They are plant diseases, insects and agronomic, physiologic and commercial factors.

All problems have a good chance of being solved, says Doctor Laude, thru a stepped-up research program. Specific problems to be attacked include stem rust, leaf rust, bunt, loose smut, scab, Hessian fly, chinch bug, wheat straw worms, grasshoppers, lodging, shattering, drouth resistance, baking characteristics of wheat, and variations in protein and starch.

A thoro program on these problems in the Great Plains area would cost 1 million dollars the first year and about \$550,000 annually, according to Doctor Laude.

"If the public knew more about research, it might want to invest more in such projects," Doctor Laude says.

Pheasant News

Extensive food-and-cover planting programs for pheasants and other small game are being started in Minnesota and South Dakota, according to the Wildlife Management Institute.

South Dakota has begun a 15-year cover-restoration project. A total of \$76,000 a year will be spent for planting 4 shelter plots in each township. Each tract will be 10 acres in size and the plots will be within 3 miles of each other so birds will have to travel only 1 1/2 miles for protection from storms.

Minnesota has started a similar program on lands leased from farmers. When completed, the chain of shelters will aid in breaking up heavy concentrations of birds during severe winters. In both states, standing corn now represents about the only cover over large areas during winter. A heavy population of birds on farms where unpicked corn is left in fields often leads to severe crop damage, it is said. Last winter 1,000 birds were seen in one 40-acre field in Minnesota.

Projects in both states are being undertaken with Federal-Aid in Wildlife Restoration funds.

SHEEP

Last Call
KANSAS BIG RAM SALE
Hutchinson, Kansas
Monday (night), May 17
 40 Head picked from leading herds. HAMPS-SOUTH-DOWNS-SHROPSHIRE-SUFFOLKS
 Catalog will be waiting for you at the sale.
RUFUS COX (Sale Manager)
 Manhattan, Kansas
 Auctioneer, Harold Tonn
 Mike Wilson with Kansas Farmer

• AUCTIONEERS •

HAROLD TONN
 Auctioneer and Complete Sales Service
 Write, phone or wire
 Haven, Kansas

BERT POWELL
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 1529 Plass Avenue Topeka, Kan.

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 LIVESTOCK AUCTIONEER
 Sales Manager — Ringman
 P. O. Box No. 102 Topeka, Kansas

Ross B. Schaulis, Auctioneer
 Purebred Livestock, Real Estate and Farm Sales. Ask those for whom I have sold.
 CLAY CENTER, KANSAS

Beef CATTLE

REPUBLICAN HEIGHTS
Tops in Herefords
 We have for sale several good herd bull prospects; top herd bull, Regulator Anx. 162d. A few good yearling bulls by WHR Royal Domino C, Real Domino and Regulator Anx. 162d.
MOWRY and WHITE
 Milford, Kansas
 Herd Inspection Invited

Registered Hereford Bulls and Heifers
 Sired by Blocky Domino Jr. by W. H. R. Blocky Domino 42nd, who was in the T. O. Ranch herd for 5 years. Inspection invited or write. (Located 4 1/2 miles north of Seranton.)
FRANK HUG & SONS, Seranton, Kan.

Reg. Hereford Cows
 For sale—18 high-quality cows with calves, horned type, also some open heifers. Must sell herd.
HENRY EUHUS, Oberlin, Kan.

REG. HEREFORD BULLS
 Hazlett and WHR Breeding
 12 big, rugged bulls from 12 to 14 months old.
WAITE BROS., Winfield, Kansas

Registered Hereford High Quality Bulls
 Two year old sons of Beau Anxiety 3941876 by Super Anxiety 5th 2634824 and Domino breeding on dam's side.
ORVILLE L. JENKINS, Emmett, Kansas

Beef CATTLE

FOR SALE POLLED HEREFORDS
 One 3-year-old and one 16-month-old Polled Hereford bull. Also a few good cows and heifers.
GEORGE L. RIFFEL & SON
 Hope, Kansas

TRY PLAIN VIEW FARMS POLLED HEREFORDS
 For sale now Young Herd Bulls and Heifers, the same breeding and quality as sold in our sale November 14, 1947, which was the highest average beef cattle sale in the state this year. Farms on highway K 43, eight miles north of Hope and 6 miles south and 2 1/2 east of Enterprise, Kansas.
JESSE RIFFEL & SONS, Enterprise, Kan.

YEARLING POLLED HEREFORD BULLS
 Sired by Defeo Mischief. Worthmore and Harmon breeding, good individuals, well developed and priced reasonable.
GOERNANDT BROTHERS, Ames, Kan.

Registered Shorthorn Bulls
 12 to 14 months old. Sired by Miles of View Pride and Red Corporal. Nice reds and roans.
C. M. CUMMINGS, Kingsdown, Kan.

REGISTERED SHORTHORNS
 Bulls — FEMALES — 4-H Calves
C. H. RALSTIN, Mullinville, Kan.

Dual-Purpose CATTLE



Milking Shorthorn Dispersal Sale

Friday, May 28

Following my farm sale of implements, etc., I will sell my entire herd of Milking Shorthorn cattle.

21 HEAD, 11 registered and 10 high grades.

8 head now in milk. Many descendants of Neralcam Banner R. M. and Neralcam Fearless R. M.

Sale on farm 3 miles east and 4 south of Canton. All Tb. and Abortion tested.

For catalog write

ARNOLD C. REIMER
Canton (McPherson), Kan.

DUALYN MILKING SHORTHORNS

Bull calves, related to the National Grand Champion cows, Dualyn Juniper and Blue-jacket Roan Lou, for sale at reasonable prices. Herd sires: Queenston Babraham RM; Imported Iford Earl Gwynne 11th; Neralcam Admiral and Count Perfection.

JOHN B. GAGE, Eudora, Kansas

Milking Shorthorn Cows For Sale

Three 5-year-old daughters of Brookside Mapperton (prize bull at Kansas State Fair). They will freshen in October. Price \$1,000.

J. W. McFARLAND, Sterling, Kan.

Registered RED POLL BULLS For Sale



6 to 11 months old, reasonably priced, state accredited and abortion tested free herd.

FRANK S. NOVAK, Haddam, Kan.

Dairy CATTLE

Imported Ayrshire Auction
at Omaha Pure Bred Sales Pavilion

South Omaha, Nebr.
Monday, May 31

50 head of purebreds recently imported from fully accredited and R.O.P. Canadian herds. A good offering of fresh and springer cows and heifers, bred heifers and 4-H heifer calves. Reasonably selected by me from good herds. They will please. Write for catalog to

H. C. McKELVIE
Omaha 7, Nebr.

BUILD A BETTER INCOME WITH GUERNSEYS

There's always a ready market for quality Guernsey offspring... a constant demand for premium-priced GOLDEN GUERNSEY Milk. Send for helpful, illustrated booklet, "Breeding Guernsey Cattle". It's FREE!

THE AMERICAN GUERNSEY CATTLE CLUB
825 Grove Street, Peterborough, N. H.

GUERNSEY BULL CALVES
Registered

Sired by Meadow Lodge King's Laddie, 1947 B. F. herd average 449 on 28 cows.

E. D. HERSHBERGER & SONS
Newton, Kansas

Offering REG. GUERNSEY BULL

Born Jan. 1944. Very gentle, extra well bred, weight 1,200 lbs. Price \$300.

H. C. KIMBALL, Burlingame, Kan.

Registered Brown Swiss

Bull calves for sale. Correct type from D.H.I.A. tested dams and classified for type. Ages from 6 months to breeding age.

Lloyd B. Rempel, Rt. 1, Hillsboro, Kan.

Brown Swiss for Sale

Extra good grade cows and heifers, reasonable, none reserved.

JOHN BALDING, Hazelton, Kan.

REG. HOLSTEIN HERD FOR SALE

7 young cows, and heifers now fresh. 1 yearling heifer and 6 heifers 3 to 6 months old. Also one 17-month-old herd bull, whose dam has a 4.11% test. He is a grandson of Montvic Lochivar. All are calfhood vaccinated.

MRS. FRANCIS DULOHERY, Oak Hill, Kan.

ABT Tidy Nig Barbeta



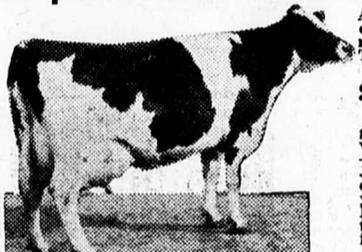
ABT Tidy Nig Barbeta

ABRAM THUT

Clearwater, Kansas

First senior yearling at the recent Arkansas Valley Black and White Show held at Newton. Large for age, due to freshen October 15 to service of Springrock Lucifer Rock River A1, son of Lucifer from a daughter of Rock River Hengerveld A1 "Excellent" Clyde Hill sire. Heifer's sire is a son of Sir Bess Tidy "Excellent" proven sire. Her dam 498 lbs. fat as a junior 3-year-old (314 days 2X). Barbeta has a 2-year-old sister making over 500 lbs. fat and a full brother for sale.

Dispersal Sale of HIGH-PRODUCING HOLSTEINS



As I am quitting the dairy business for another occupation I will sell at the farm located 1 1/4 miles north of the intersection of highway 149 and 71. This intersection is known as the Y and is at the northeast edge of

St. Joseph, Mo., Thursday, May 27

26 HEAD SELLING: 23 registered and 3 high grade Holstein Females. 13 head now milking. 2 were fresh in December—2 in February—4 in March—1 in April. 3 are dry and will be fresh in May and June. Only 1 cow 6 years old. Seven 2-year-old heifers sell. Three 3 year olds, three 4 year olds and a 5-year-old sell. 6 bred heifers and 4 open heifers. Heifers and cows are artificially bred to a good type, high-production bull owned by Midwest Breeding Farms, Trenton, Mo.

PRODUCTION: Herd production from October, 1946, to October, 1947, per cow was 13,494 milk, test 3.7 with 501.4 pounds fat. April production 1948 per cow with 15 cows—1 dry, was 1,036 pounds of milk per cow with 36.81 fat. Total production on 15 head was 15,537 milk and 552.1 fat. A number are now producing from 50 to 60 pounds a day. Herd in D.H.I.A. with testing being done by Norman Chandler, tester for Buchanan, Nodaway and Andrew counties, Missouri.

POPULAR BLOODLINES: Females sired by a son of Rock River Hengerveld A1; Other females sired by Sir Pauline Fobes Admiral; U-Mo-Man of War Pluto; Collins Farm Matador Perfection; Streamlawn Truth Ormsby.

HERD CLASSIFICATION—Herd will be classified May 13 at 8:30 A. M.

HEALTH OF HERD—Tb. and Bang's tested herd. All young stock calfhood vaccinated.

NOTE—Dairy cattle sale 1:30 P. M. Farm sale and Dairy equipment sell at 10:30 A. M.

For sale catalog write to **HARRY WEISENBORN, Owner, Rt. 3, St. Joseph, Mo., or NORMAN CHANDLER, Rt. 2, Rosendale, Mo.**

Auctioneers: Bert Powell, Burl Landess & Son Donald Bowman with this Publication

Smoky Valley Holsteins



ORMSBY DE KOL WALKER
VALE 2254766 V. G.
5 year, 349 days, 14,904 pounds milk,
571.9 pounds fat

W. G. Bircher & Sons
Ellsworth, Kansas

"Building on the blood of Governor of Carnation"

A daughter of Carnation Countryman 784743, Senior Sire. Her son by Kanstacol Madcap Monarch 1005136, a grandson of Governor of Carnation, and a few sons of Carnation Countryman from dams with records up to 612 pounds fat for sale.

Our First ABERDEEN-ANGUS Production Sale
Monday, June 7

At Farm 1 Mile East and 1/2 South of **Rocky Comfort, Mo.**
(50 Miles Southeast of Joplin, Missouri)

Featuring Sons and Daughters of Beefmaker 38th-767271

45 Head—39 Females—6 Bulls

THE SALES OFFERING: 12 Bred Heifers that are bred to Prince Sunbeam 321. Twelve Good Cows With Calves at Side and rebred to these great bulls. Fifteen Open Heifers sired by Beefmaker 38th. Six Good Young Bulls—These are good herd sire prospects.

LEADING BLOODLINES THAT WILL APPEAL TO THE PROSPECTIVE BUYER. Practical Angus Sold in Farm Condition and are the kind that will make money for practical stockmen. Angus for both breeder and farmer. A place to buy your foundation stock. Health—Tb. & Bang's Tested Offering. Remember, this is the "Home of Missouri Beefmakers"

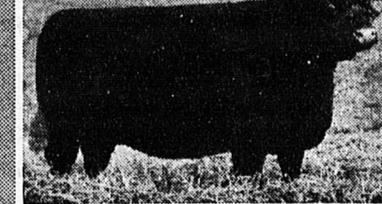
CHESTER & CRYSTAL DAVIDSON, Owners

For catalog write Donald J. Bowman, Livestock Sales Service, Hamilton, Mo.

RED OAK FARMS, Rocky Comfort, Missouri

Aucts.: Roy Johnston and Ray Sims, Belton, Mo. Bert Powell with Kansas Farmer

Polled (Hornless) Shorthorns



QUEEN OF HEARTS 2nd X

Cherry Hill Hallmark sired by the \$5,700 Goshall Zimenes and bred by Oakwood Farm, Ashville, Ohio. (his dam was good enough for Cherry Hill Farms to own) and Red Coronet 2nd sired by the International Champion and bred by the Thiemens, Concordia, Mo. are producing the most perfect calves in the history of the herd (established 1907).

BULLS FOR SALE: We offer 10 sons by "Cherry Hill Hallmark" and 10 sons by "Red Coronet 2nd." Calfhood vaccinated. Delivered in Kansas at cost.

Farm Location: 22 miles west and 6 miles south of Hutchinson.

J. C. BANBURY & SONS, Phone 13F2, Plevna, Kansas

Dairy CATTLE

Selling in the National Holstein Sale

A 2-year-old Heifer of Clyde Hill Hengerveld Fobes. Dam is Smoky Hill Ormsby Judy, both classified V. G. Granddaughter of Rock River Hengerveld A1 and Elsie Zuba Rock River of Clyde Hill Farms. Both classified E. Herd average for 1947 451.4. High 2-year-old in herd for 1947, 599.8 fat.

H. A. MEIER, Abilene, Kan.

Welcome National Holstein Convention to Kansas and Missouri

24 years with Holsteins. We have bred above average test, satisfactory type and earned progressive breeders registry award in 1942 and 1943. The Holstein future looks very bright.

McVAY'S, Nickerson, Kansas



LE-ELLEN FARM

REGISTERED HOLSTEINS

Mr. & Mrs. L. C. Gudenkauf
Sabetha, Kansas



REGISTERED HOLSTEINS

Young bulls for sale, from dams with 481 pound fat record. Inspection invited.

R. O. Chamberlin & Son
R. R. 1, Olpe, Kan.

Holstein Yearling Bull for Sale

Ready for service from sire whose dam made 656 lbs. fat and from a dam whose 2-year-old record is 409 lbs. fat.

W. H. MOTT, Herington, Kan.



Our Holsteins Are Descended

From Dora Pearl Veeman 631969, 1018 lbs. butterfat in 365 days (first Kansas 1,000 butterfat cow). Bull calves for sale later.

H. A. Dressler, Lebo, Kan.

Prairie Flower Holsteins

H. I. R. average 421 fat, classification score 83.9. See us for bulls rich in the blood of King Creator Champion Segis

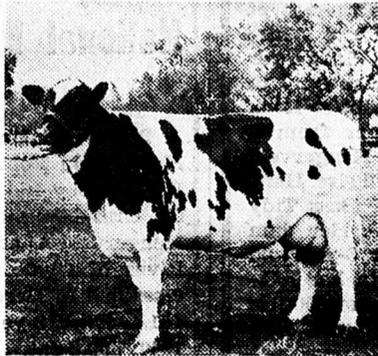
Over 2% of the females in the herd are either granddaughters or line-bred great granddaughters of his. One bull for sale now.

RUDOLF MUELLER & SON, Halstead, Kan.

REGISTERED GUERNSEYS

Since 1906 High Production. Correct Type. Popular Bloodlines.
Ransom Farm, Homewood (Franklin Co.), Kan.

PRINCESS TRIUNE INKA



PRINCESS TRIUNE INKA

Grand champion female at the 1948 Capitol Black & White Show held in Topeka. She has to her credit 2 lactations over 400 pounds fat. She is now milking at a 600-lb. clip and she is classified excellent. Our herd average the past 2 years is over 400 pounds fat on 2X milking. Classification score 84.2 on 27 head. One Excellent, 10 Very Good, 14 Good Plus, 2 Good. Our senior herd sire Clyde Hill Hengerveld Mercedes bred by Clyde Hill Farms, and a son of the Gold Medal Clyde Hill bull, and from the Romelia family. Our Junior herd sire Leongard Perfection Frost Burke traces to Wisconsin Admiral Burke Lad on both sides of his tabulation. We have practiced calf-hood vaccination in the herd since 1941. At the present time we are offering a real herd sire prospect out of Princess Triune Inka and sired by the Clyde Hill bull. Also some other breeding stock for sale at this time.

WHITE FARMS

J. M. WHITE and EUGENE R. SMITH

Route 8

Topeka, Kansas

A 524-LB. AVERAGE ON 2X



A TYPICAL HERD MEMBER

1/2 years, 365 days, 2X, 670.2 F.
4 years, 321 days, 2X, 648.0 F.

Jr. Champion Kan. State Fair, 1944

Announcement has been made by the Holstein-Friesian Association of America of our third year of Herd Test with an average of 524 lbs. of fat and 14,802 lbs. of milk on 18 head milked twice daily. This follows an average of the previous year of 510 lbs. of fat and 14,238 lbs. of milk.

Our herd has been classified 7 times and the present herd classification average is 82.5.

We have bred more All-Kansas winners than any other breeder.

We offer bull calves sired by Brown's Marksman Posch from some of our very best cows. The dam of "Marksman" is the Minnesota State record 2-year-old and was best uddered cow at Waterloo, 1946.

ERNEST A. REED & SONS, Lyons, Kansas

ST. JOSEPH'S ORPHAN HOME Home of the Tidy's --- Presents

ST. JOSEPH TIDY "NELLIE" WILDA
(A Tidy Rag Apple combination.)
A 2 year 442 fat 2X.
At 3 years—milking 9 gallons daily 3 months after freshening.
First 2-year old Salina B & W Show, 1947.
First 3-year-old Hillsboro, 1948.
Member first prize "get" both years.
"Nellie" has 40 sisters in our herd.

Other Facts About Our Herd

On test since 1922.
Our herd is built on cow families that go back 20 years.
1947 herd average on 33 cows was 424 F. with 3.8 test.
1948 April average on 42 cows was 42.0 lbs. F.

20 daughters of Sir Bess Tidy EX. averaged at 2y 442 F. with 3.77 test.

1 Tidy daughter at 2y 675 F. Another at 2y 601 F. Both 2X.

The "Rag Apple" bred son of "Corrine" (R. All American 1947) is now in use along with 2 sons of Tidy.

Our bloodlines combine world record production and All American show winners.

For information on breeding stock write to
HAROLD SCANLAN, Mgr., Abilene, Kan.



Jonz Holstein Farms

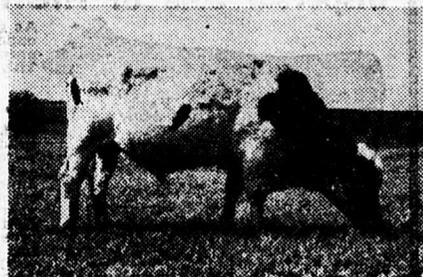
Presents

THE NEW LOOK

at Meierkord Sir Triune

Lizzie 789863

Proven in D. H. I. A.



	Milk	Test	Fat
5 daughters averaged	13,740	3.3	455
5 dams averaged	10,187	3.4	342
Difference	3,553	-.1	+113
Index 2X 305 da.	17,293	3.2	568

One of 39 bulls with 17,000 lbs. milk index. Sons of Lizzie available from 400 to 600 lb. fat dams. Baby calves to service age.

LE ROY JOHNSTON & SON

Classified Vaccinated

Maryville, Kansas

We Present

Banostine Daisy of Riverview



Banostine Daisy of Riverview

19,388 lbs. milk and 730 lbs. fat, 4-year record 2X milking. High cow in our herd (the high herd for Kansas in 1947), official certificate just received. Herd average 545 lbs. fat.

Bull calves to serviceable age, out of cows with over 600 lbs. fat, also few cows for sale. Classified herd score 85 points. Come visit our herd. Farm 4 miles west, 1 north of town.

LILAC VALLEY DAIRY FARM

WALLACE J. BECKNER, Belle Plaine, Kan.

We Present A SAMPLE OF THE BURKES

Collins Farm Burke Dora, classified V. G. at 2 years and with 10,861 m. 406.1 f. in 363 days is a granddaughter of the famous Bubbles cow, being a daughter of our first Burke bull.

Her fine young son by Weber Clover Burke Frosty, our double grandson of Wisconsin Admiral Burke Lad is available. His full brother was second blue ribbon winner at N. E. Kansas Black and White Show, 1948, standing next to a son of Pabst Regal.



Collins Farm Burke Dora V. G.

Tb. Accredited

Calfhood Vaccinated

HARVEY BECHTELHEIMER

Sabetha, Kansas

PIEBE BILLY ABBEKERK



represents one of our best cow families. The photo shown here is of one that classified "very good" as a three year old and produced in that H. I. R. lactation period 19,874 lbs. milk and 810.4 lbs. fat, test 4.1 on two times a day milkings. At four years old she made 19,097 lbs. milk and 758.5 lbs. fat, test 4%. The dam of bull mentioned above had two records above 700 lbs. fat and his sire was Meierkord Billy Abbekerk. Our 1947 herd average on 14 cows was 14,081 lbs. milk and 513.6 lbs. fat. Many years of continuous testing.

Baby bull calves ready to go. Inspection invited.

Clarence B. Quinn, Bennington, Kansas



For Sale: T T Zarnowski Princess Empress 1005152 born January 10, 1947

A son of the great producing cow, T T Bessie Princess 2283748, who has the following records:

5 y 5 mo.	17,768 m.	686.7 fat	3.57% test,	317 d.	2X m.
4 y 4 mo.	15,961 m.	604.4 fat	3.8% test,	323 d.	2X m.
3 y 4 mo.	15,063 m.	601.5 fat	3.99% test,	313 d.	2X m.
2 y 2 mo.	12,320 m.	520. fat	4.23% test,	315 d.	2X m.

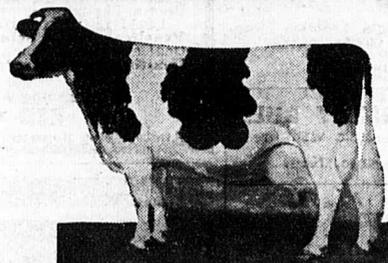
His sire: Zarnowski White Star Triune, 887492 is a son of Zarnowski White Star Campus 2014570 who produced 19,632 m. 740.4 f. 3.8% test, 365 days. 3 1/2 y. 2X m. (2nd high in U. S. in 1942) (5th high for all time).

A son and daughter of this sire placed first in their class at the 1948 N. E. Kansas District Black & White show.

Other bull calves from this sire and high producing dams for sale.

TORKELSON BROS., Everest, Kan.

1/2 west and 2 1/2 north.



Congratulations and Many Thanks

To those of you breeders and farmers who made purchases in our recent April sale. We sincerely hope that these cattle will be profitable and pleasant investments. It has been a great pleasure to us to present this offering for public appraisal. Don't forget we are still in the Holstein business, and would be happy to have you pay us a visit anytime.

SUNNYMEDE FARM

C. L. E. EDWARDS, Topeka, Kan.

DISPERSAL SALE

At Bilkeith Farms, Shawnee, Oklahoma

Farm 1 mile north of Oklahoma Baptist University and 1/4 mile west

Our herds of registered Holsteins, Guernseys and grade cows will be dispersed May 26 and 27, 1948. Here is YOUR chance to buy high-producing individuals, of excellent lines, all T.B. certified and Bang's accredited. Young stock is calf-hood vaccinated.



May 26—55 Reg. Holsteins
May 27—50 Reg. Guernseys



Grade Holsteins will be sold
May 26. Other grade cattle
will be sold May 27.

Holstein sires include Springbank Sovereign Deen, son of Sovereign and Bilkeith's Rag Apple Montvic Buddie, son of Rag Apple Montvic Commander. Registered Holsteins will include the following: Miss Dolores, Lilac Hill Diana Dictator Fobes, Maridale Royal Piebe, Echo Hartog Ruby, Hawthorn Dictator Fashion Plate and Colantha Beets Pontiac Segis and Holsteins sired by King Creator Champion Segis.

Guernsey sires are Meadow Lodge King's Noble, a son of King of The Meads, and Royal Polly's Mead, a son of Meadow Lodge King's Ambler. Guernsey cows include Nathaniel's Natalie, President's Marie, Rock Creek Royal Wanda, Bilkeith's Squire's Cris, and Bilkeith's Squire's Dona.

For catalogs, write Bilkeith Farms, Box 677, Shawnee, Okla.

JACK EWTON, Owner
ROBERT SEITZ, Waukesha, Wis., Auctioneer

"The Sale of the Year" in Holsteins NATIONAL CONVENTION SALE

Consignors List Includes Leading Herds, Coast-to-Coast

75 TOP-OF-THE-BREED HOLSTEINS

Selling at Auction in American Royal Bldg.



A
**FIVE-STAR
SALE**

Full details and
pictures in
April-May
issues of
The
Holstein-
Friesian
World

KANSAS CITY, MO.

on Thursday, following Convention of
The Holstein-Friesian Assn. of America

THURSDAY, JUNE 3

Starting 11:00 A. M., C. S. T.

AN ALL-TOP OFFERING

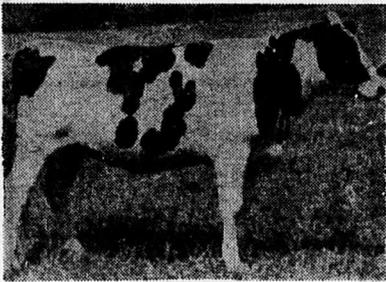
To help the great Southwest in promotion of the Holstein Breed, leading breeders from Coast to Coast (Connecticut to California and Washington) have offered more pure "Tops" for this sale than any other National Sale in recent years. Selections were made on the basis of Super-Quality, and this is YOUR OPPORTUNITY to purchase THE BEST IN HOLSTEINS.

The Sale Catalogue, with full pedigree of each animal in the sale, pictures of most of the consigned animals and many of their near relatives, will be ready about 10 days ahead of sale. Because of shortness of time please enclose 50c with your request and book will be sent by 1st class mail.

A. W. PETERSEN, Sale Mgr., Oconomowoc, Wis.

WE ARE JUST PLAIN LUCKY

Three sires used in our herd since 1938 have increased production of daughters over their dams.



DIANA

Valla Vista Diana Hattie Mercury
All Kansas Jr. Yearling Heifer 1947. Reserve
Jr. Champion at both Fairs. 4 prizes 2-year-
old 1948 at Linn, Kan.

The same cross gave us 1st and 2nd Blue Ribbon Jr. Yearling Heifer.
The same cross gave us 1st and 2nd Blue Ribbon Senior Yearling Heifer.
The same cross gave us 1st and 2nd Blue Ribbon in get of sire.
The same cross gave us 1st and 2nd and 3rd in Produce of Dam.
At Black and White Show at Linn, Kan., May 1, 1948.
Other herd sires in use. Crescent Admiral Prince V. G.

He has 4 sisters classified—Excellent; 23 sisters with (36 records) average 12611 Milk 3.6%
451 Fat; his dam at 7 years H. I. R. 18035 Milk 4.0%, 725 Fat 2 x Crescent Beauty Type-
setter 1st Blue Ribbon Sr. Yearling Bull, 1948 at Linn, Kan., B & W Show has 4 sisters
classified Very Good as 2 year olds. We have bull calves of serviceable age for sale by
Mercury and Admiral.

Attend Your Convention and Sale at Kansas City, Mo., May 31 to June 3

K. W. PHILLIPS & SONS

10 miles north of
Manhattan, Kan.

Sir Billy Ormsby DeKol
+ 95 lbs.

Carnation Mutual Inka May
+ 10 lbs.

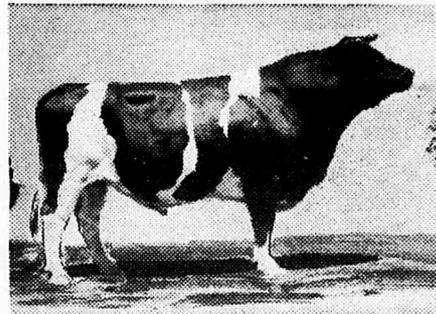
Great Mercury Prince
+ 39 lbs. still in service.

Our Sir Billy Mercury Cross is
Encouraging

Valla Vista Bunny Maria Mercury
First prize—2-year-old cow in milk at B &
W Show 1948—Linn, Kan., at 25 months of
age. Record 86 days. 5082 Milk—197.2 Fat.

We Like the 'Burkes'

Our Herd Sire



WEBER BURKE HAZELWOODER

Classified Excellent, son of a Gold Medal Sire, 4
Classified daughters as 2 year olds, 2 V. G., 2 G. plus,
1 G.

First 3 H. I. R. daughters to date average 496 lbs. fat
as junior 2 year olds 2X. Now owned and in service in
our herd. First calves will arrive in June from classi-
fied and H. I. R. dams.

E. A. DAWDY, Salina, Kansas

Our Breeding Program

Intensifying the Crescent Beauty Admiral

This combination for generations has had the ability to produce truly
great dairy cows which has been proven by production records, made under
very ordinary farm conditions, and the honors awarded them in the show
ring.

Continuous testing since 1920 with averages up to 400 lbs. fat.

Starwood Holsteins.

HENRY HATESOHL & SON, Greenleaf, Kan.

Will This Cow Improve Your Herd?

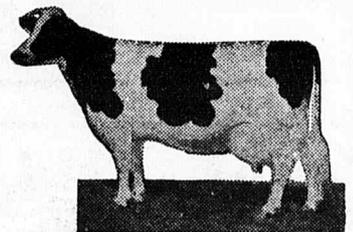


She is Leohost F'on Odell Sodell, our con-
signment to the National Convention Sales at
Kansas City, June 3. She is 4 years old, calf-
hood vaccinated and has a 2-year-old record
of 12,354 lbs. milk, 458.4 lbs. fat in 319 days.
(2X) Her dam, grand dam and great grand
dam have records of 566, 541 and 527 lbs. fat
on 2 time milking. She was member of the
First Place get of sire at our district show in
1948. We also have for private sale her bull
calf, born May 1, that is sired by the 1947
All-Kansas junior bull. She carries 2 crosses
of our Dunloggin sires, and is closely related
to 98 per cent of our herd. Her dam is a pa-
ternal sister to the Top Cow in the Kansas
State Sale in 1947.

Leo H. Hostetler, Harper, Kan.

THE OHLDE PROGRAM

Five separate herds of cattle are being
built on a foundation of the best brood
cows that we can obtain thru purchases
at private treaty and the better Kansas
and Nebraska Holstein sales. We have
selected foundation animals.



Our five herds number fifty cows, with a
combined herd average for 1947 of 400 lbs.
fat. We have cows classified Very Good and
several have made from 500 to 700 lbs. fat.

BURKE AND ROCK HERD SIRES

Our breeding program is to continue to use five herd sires that are sons or grandsons of
those two noted Gold Medal sires, Wisconsin Admiral Burke Lad 697789 and Rock River
Hengerveld Al 664525. We will continue to trade bulls with one another while we prove these
bulls in the testing association, the classification program and the show ring.

We Invite You to Visit Our Five Farms and Study Our Breeding Program

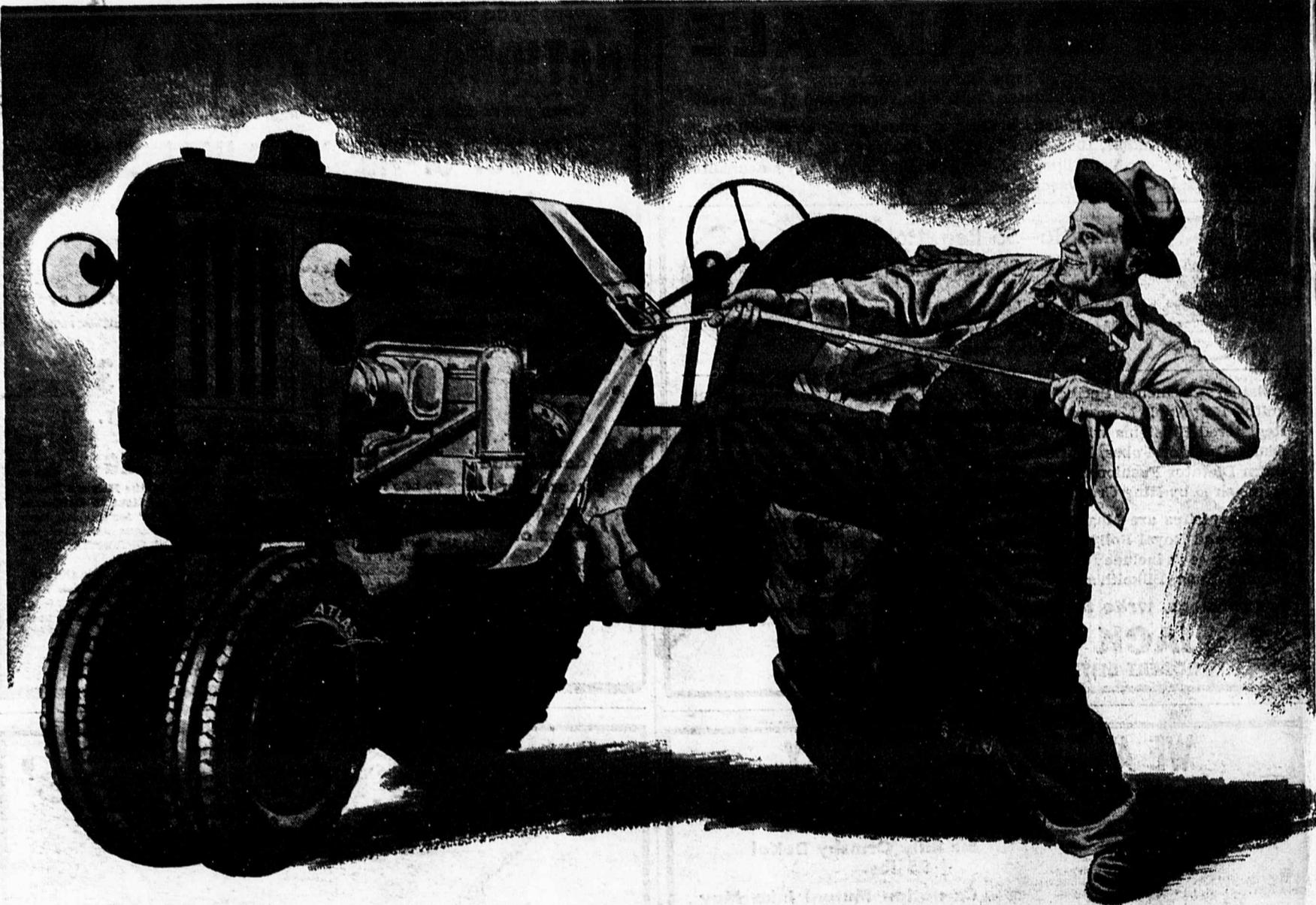
EDWIN OHLDE
Linn, Kansas

E. A. OHLDE
Linn, Kansas

MARTIN OHLDE
Linn, Kansas

ALBERT OHLDE, Linn, Kansas **OSCAR OHLDE, Palmer, Kansas**
Herds Classified Young Bulls For Sale

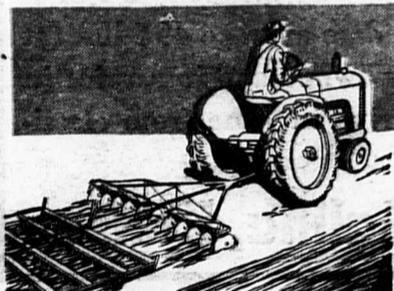
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MAY



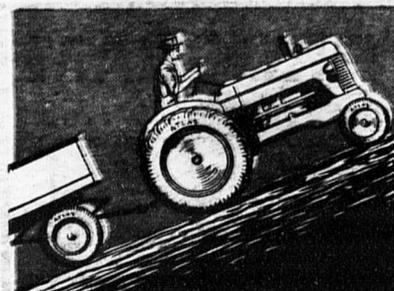
Cut down your tractor's waste line

Save money and fuel these easy ways

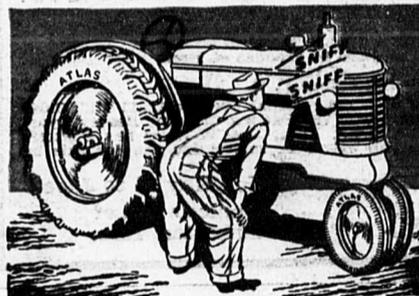
1 When you set out to save money by cutting waste of tractor fuel, chances are you'll succeed. Fuel costs represent a substantial sum of money . . . 40% of tractor operating costs . . . and you have numerous promising opportunities for savings.



2 How you hitch up your tools can make a whale of a difference. A hitch that causes a plow to nose down, or one with too much side pull, increases draft—and fuel consumption. There's a waste of fuel also if you hitch up just one implement when your tractor can easily pull two . . . plow and harrow, for example, or disc and grain drill.



3 On the average tractor, 10 cents of every fuel dollar is wasted by faulty carburetor adjustment. This is because—instead of warming up the engine fully before putting it under load—many operators simply open the carburetor load adjustment to get an over-rich fuel mixture so they can start right in to work. Then—even after the engine warms up—they leave the adjustment open all day, instead of closing it to its proper position.



4 Sniff, sniff! Smell gas? Better watch out for spillage while filling and for leaks around tank, fuel lines and carburetor. Check, too, on "leaks" you may not *smell*—for example, waste caused by unnecessary idling for more than a minute or two.



5 A great help in stretching your gasoline dollar is proper lubrication. Use of Permalube Motor Oil, containing a patented additive, helps to end varnish troubles and to keep rings free, minimizes wasteful blow-by, allows engine to deliver full power. Standard Gear Lubricants, applied as recommended, reduce gear drag, cut gasoline consumption.

Be sure to consult your manufacturer's instruction book. When you need major repairs, see your tractor dealer. And when you operate your tractor, be sure the safety shields are on. **BE CAREFUL—THE LIFE YOU SAVE MAY BE YOUR OWN!**



STANDARD OIL COMPANY

