

Kansas Farmer

MARCH 10, 1950



HERE'S AN IDEA: Edna and Robert Becker find top off an old kitchen cabinet makes fine storage cabinet for toys. It is in Robert's room.



NEARS COMPLETION: Years of planning went into Ernest Becker home, Coffey county. Note extra windows in basement for light and air.

Designed for Comfort

A FRONT porch, garage and driveway are all that separate the Ernest Beckers, of Coffey county, from completion of their dream home. With help of Kansas State College Extension specialists, they worked out a 3-bedroom farm home, all on one floor, and designed for minimum cost and maximum living comfort.

Here are some of the features planned for the Becker home:

- ★ A large U-shape kitchen and dining space. The trend now is back to larger kitchens. Beckers chose dining space in the kitchen rather than a separate room to save space and steps.
 - ★ Lavatory and coat closet in a hall just off the back porch so the men can "clean up without messing up either kitchen or bathroom," says Mrs. Becker.
 - ★ Disappearing ladder stairway in ceiling of hall to attic storage area. "We wanted the storage attic but didn't want to give up any downstairs floor space for the stairs," explains Mr. Becker.
 - ★ Fourteen outside windows in the basement. "We plan to use our basement a lot and don't want it dark or musty," the Beckers say.
 - ★ Basement divided into recreation room, fruit room, and combined laundry and furnace room.
 - ★ Gas furnace for central heat. Furnace fixed so basement also can be heated.
 - ★ Shower bath in the basement for the menfolks.
 - ★ Three bedrooms, bath, living room and kitchen all open onto an L-shaped hall, so housework can be done with a minimum of steps.
- Mr. and Mrs. Becker have 2 children, Edna and Robert.



KEEPS FARM RECORDS: Mrs. Becker keeps farm account books and finds it is easier in their handy new home.



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- **Nemaha County's New Houses . . . Page 22**

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Your Soil Needs

By ED RUPP

HOW fertile is the soil on your farm? Have you had soil tests made? Soil tests can be valuable to you. Apparently they can be nearly as valuable as a guide to fertilizer usage as having a comprehensive fertility test plot on each field on the farm.

Nearly 1,300 soil tests were made in the state laboratory at Kansas State College from June 1, 1949, to February 1, 1950. The new laboratory was opened last spring. Dr. R. V. Olson, who is in charge of the laboratory, reports 697 test samples were received during the first 4 months the laboratory was in operation. A slow-down was expected during winter. But nearly 600 more samples were received during the next 4 months.

Interesting trends of actual soil conditions over the state become apparent in a break-down study of the first group of samples received—the 697 soil tests. It is too early to draw definite conclusions. But a trend can be detected. Then, too, initial samples may have been taken from "trouble spots." That would tend to make the average appear lower than it should.

Briefly, the trend is in this direction: Potash needs are confined largely to extreme Southeast Kansas. Phosphorus is low in many fields in the eastern half of the state, with greatest need for phosphorus again in the southeast corner. Chances are about 2 to 1 that more lime is needed in the eastern half. And a large majority of Kansas soils need more organic matter, which calls for wider use of legumes and nitrogen-bearing fertilizer.

How to Be Sure

But the way to be sure what the individual soil needs is to have it tested. There can be variations in requirements on a single farm. With the soil test, each farmer is able to get a more exact recommendation for each field. From the soil test report, the county Extension agent can make specific recommendations for rotations and fertilizer requirements.

Dividing the sampled areas into regions may help make the tests more clear. In the 9 southeast counties it would appear the chances are about 12 to 1 that phosphate can be used to advantage. Nine tests show no need of lime where 30 could use varying amounts of lime. The organic matter tests show nearly all soil sampled would benefit from increased use of nitrates and strong legumes. Potash is not so definite. Perhaps half come close to showing a need for potash, particularly when legumes are grown.

Lime, phosphorus and more nitrogen seem to be the big needs in the 9 east-central counties. Early tests indicate 3 soils need phosphorus where one doesn't, the same proportion holds true for lime. But the chances are about 12 to 1 that more nitrates and strong legumes could be used. Potash needs appear very low, perhaps 1 to 20 might get response from potash when used with crops like strong legumes.

In the northeast counties the picture changes. Only about half the soils

tested in this area show need of phosphorus. Practically all were strong in potash reserves, but 3 needed lime where 1 did not. Again nitrogen seems to be the big need in these counties, according to the samples tested. Chances appear about 4 to 1 that more nitrogen in the form of strong legumes and nitrate could be used to advantage.

Now, thru that long north-south strip of counties, roughly from highway 81 east thru the Flint Hills, the big need again is phosphate, lime and more nitrate and legumes. About 5 need phosphate where 2 don't. Two out of 3 need more lime and nearly all could stand an improvement from the organic matter standpoint. For the most part potash readings are extremely high in this area.

Except for a few sandy soils in the western half of the state, potash readings in that area too are high. No potash required. A few show need of phosphate and some show lime may be needed.

But the way to be sure is to use soil-testing facilities that are available.

Residual affects are apparent with some fertilizers. There may be a tendency toward a build-up with maximum annual applications over a period of years. At the same time, there may be a weakening of other mineral reserves from increased yields when applying necessary fertilizers. For those reasons, Doctor Olson suggests applying fertilizer over a period of 5 years, then retest the soils to know where you are going with your soils program.

Vocational Dates

The dates of May 1 and 2 have been set for the 27th annual state high school Vocational Agriculture Judging and Farm Mechanics Contest, at Kansas State College, Manhattan. Also held at the college on those dates will be the 22nd annual program of the Kansas Association of the Future Farmers of America.

Boys from all over Kansas will compete during the 2 days in farm mechanics, poultry judging, agronomy, public speaking, and livestock judging.

Lamb School Dates

The tenth annual St. Joseph Lamb and Wool School for Kansas sheepmen will be held at the St. Joseph stockyards May 10 and 11. There is one particularly important change in this year's classification. All groups of 5



"No, no—I don't want your honest opinion—I want your professional advice!"

lamb will be exhibited in one class. In addition a class is being provided for a load of 25 lambs.

This class of 25 head was put in at the request of Kansas exhibitors who felt they wanted to participate on a larger scale.

Senator Capper on Radio

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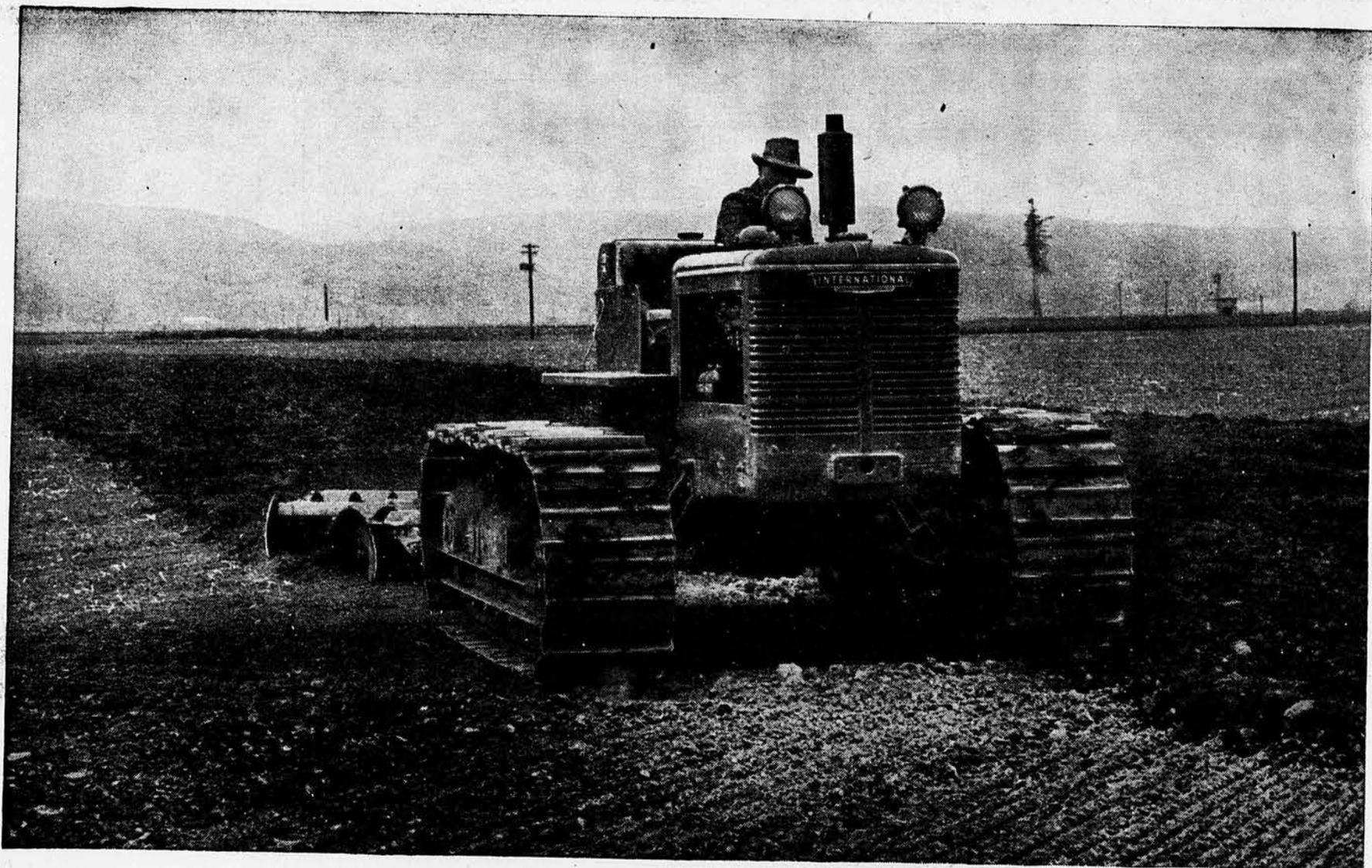
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International TD-14 Diesel Crawler pulling a McCormick heavy-duty disk on the 500-acre W. Attlee Burpee Seed Co. farm at Lompoc, California.

"It gets to work sooner,"

says manager of W. Attlee Burpee Seed Co. farm about this EASY-STARTING

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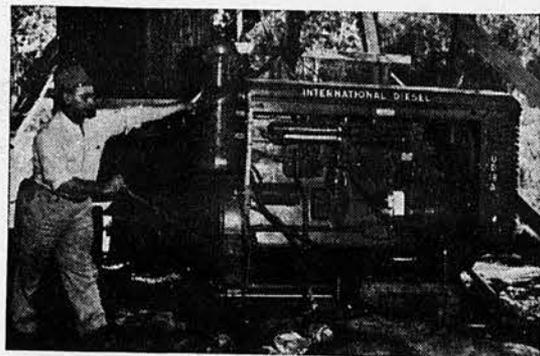
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Third in series of articles Kansas Farmer Promised on "Where We Have Been, Where We Are Now, and Where We Are Going in Agriculture."

What Happened to Our Soil

By H. E. MYERS, Department of Agronomy
Kansas State College

THIS is the age of science. First half of the twentieth century saw unprecedented scientific development. The internal combustion engine, automobile, tractor, airplane, farm equipment, synthetic nitrogen fertilizers, chemical weed killers and synthetic rubber, are only a few examples of scientific progress made during the last 50 years.

Developments with soils have kept pace with other sciences during these 50 years of progress. Soil-survey and land-classification field plot experiments, and use of fertilizer and lime based on field experimental results and laboratory soil tests, are only a few examples of the application of soil science studies.

At the first of this century studies were mere applications of existing sciences, such as chemistry and physics, to the solution of soil problems. Soil was considered then largely as a geologic feature formed by weathering of rocks and organic matter.

Basis for the scientific ideas of soil developed gradually during the latter part of the eighteenth century following discovery of the chemical elements such as nitrogen, phosphorus and calcium. However, practical application of soil science to the solution of farm problems received its greatest stimulus following the extensive use of field experiments. This principle really came into its own during the first half of the twentieth century.

Field plot studies in co-operation with the U. S. Department of Agriculture were started at the branch agricultural experiment stations at Hays in 1907, at Garden City in 1909, and at Colby in 1914. Systematic field experiments were started at the Agronomy Farm at Manhattan in 1910. Field plot work at Hays, Garden City and Colby was designed to study tillage methods, soil treatment and cropping systems adapted to the western part of the state. In addition the studies dealt with amount of moisture available to the growing crops.

Soil Studies Continue

Results of these soil moisture studies, many of which have been continued to the present day, have added much to our knowledge of soil-plant relationships, especially as related to wheat production.

Field experiments at Manhattan dealt with problems common to soils of Eastern Kansas. It soon became evident, however, that fertility results obtained at Manhattan were not applicable to all parts of the more humid part of the state. This led to development of a system of soil experimental fields. The first group was established in Southeastern Kansas at 5 locations—Columbus, Moran, Parsons, Fort Scott, and Rest. The Columbus field has operated continuously since 1923. Results from all of the fields have provided a basis for sounder soil fertility recommendations than would have been possible otherwise. The experimental field plan was extended to South Central (Wichita, Kingman, and Hutchinson), Northeast (McLouth, now abandoned), Southwest (Dodge City and Meade, the latter abandoned), and North Central Kansas (Belleville and Smith Center). This was done in order to study the effect of soil-management practices on important soil groups of the state. Development of the system of experimental fields represents an important milestone in the progress of soil science in Kansas during the first half of the present century.

A soil-survey program got its start in Kansas in the early years of the century. Soil surveying was then in its infancy. No one knew too well how to map soils. Consequently the first county maps, namely, Brown and Riley, and the area maps—parts of Sedgwick, Finney and Russell counties—are almost valueless on the basis of present standards. Yet these early attempts at

land classification were stepping stones in development of present-day soil survey and classification systems.

Goal of a complete soil survey for Kansas has not been attained but the program is progressing. The soil survey in Saline county was completed in 1949. Present attention is directed toward a survey of the areas proposed for irrigation and those farms where a soil-conservation plan is to be made. Its chief objectives are an inventory of the soil resources of the state, and gathering information which will be useful in dealing with problems related to the soil whether it be farm planning, soil management, assessment of real estate for taxation purpose, land appraisal or engineering uses of the soil.

Several important developments have occurred which have had a great influence on soils of the state. These include: (1) organization of the Agricultural Extension Service, (2) creation of the Soil Erosion Service, later to become the Soil Conservation Service, (3) establishment of the Agricultural Conservation Program, later to become a part of the Production and Marketing Administration, and formation of the Farm Security Administration, now the Farmers Home Administration.

The Extension Service, thru Extension specialists and county agents, have carried information about improved



TOUGH JOB: This is a soybean plant breaking thru the soil. Some soils have become difficult to till and crust badly following heavy rains.

soil practices to farmers thru demonstrations, public meetings, news releases and personal contacts. This has had a large influence in directing attention to soil management.

The Soil Erosion Service, born as a worthwhile relief project during the thirties, demonstrated its value in our battle to turn the tide from soil deterioration to soil conservation. It was given permanent status as the Soil Conservation Service. While much real good has been accomplished, an important contribution of the service in early days of its existence was the general awakening of the public to the importance of the soil and its conservation.

The Agricultural Conservation Program came into being during the thir-

ties primarily as a justification for making government payments to farmers. As the program developed, more and more attention was given to the soil-conservation aspect of it. Payments became more specifically for the purpose of encouraging application of conservation practices on the land. The great increase in use of such soil-building and conserving practices as use of lime, phosphatic fertilizers, terracing, contour farming and conservation of crop residues, is to a considerable extent the result of payments for conservation practices.

The Farm Security Administration Program came into being to assist farmers without a source of credit. Supervisors of this program, acting as agricultural advisors, in addition to their task of financial supervisors, did much to improve conservation practices on land of their co-operators.

What Happened to Our Soils in 50 Years: Unfavorable

In 1900, cultivated acreage was much less than in 1949. This acreage was only a relatively few years removed from the virgin sod. Little or no attention was given to maintenance of soil fertility. Even returning barnyard manure to the soil was not a common practice.

Almost without exception rows followed fences in the direction which would give the longest row. Commercial fertilizers were almost unheard of. Value of lime on Kansas soils had not been determined. Sweet clover was considered a weed. Alfalfa was a long-lived perennial not yet troubled with bacterial wilt. Thus it was not used frequently in crop rotation. The practice of using crop rotations was the exception.

Grasses, except for timothy with red clover to be used as hay, were rarely seeded. Emphasis was on the destination of grass. Farm operations were done with horse power. Timeliness, while important in the management of soils, could not always be attained.

Most serious threat to Kansas soils thruout the 50-year period was soil erosion, both by water and wind. However, water erosion was most serious for the state as a whole. The practice of up-and-down hill farming, together with extensive production of nearly continuous corn in Northeastern and Northern Kansas, caused very rapid loss of fertile topsoil. Complete elimination of wheat stubble by burning and plowing contributed to increased soil losses in the Wheat Belt. Wind erosion caused some damage every year but became especially serious in 1911-1913 in the Colby area and over much of Western Kansas in the mid-thirties.

Cultivated soils declined rapidly in soil organic matter. This was only partly the result of soil erosion and removal of the organic matter rich surface layer. Even with little or no erosion the organic matter declined as indicated by studies at Manhattan, Hays, Colby and Garden City on experimental plots, some of which had only slight erosion. Accompanying the decline in organic matter was a gradual breakdown in the desirable structural condition of the soil, resulting in the soils

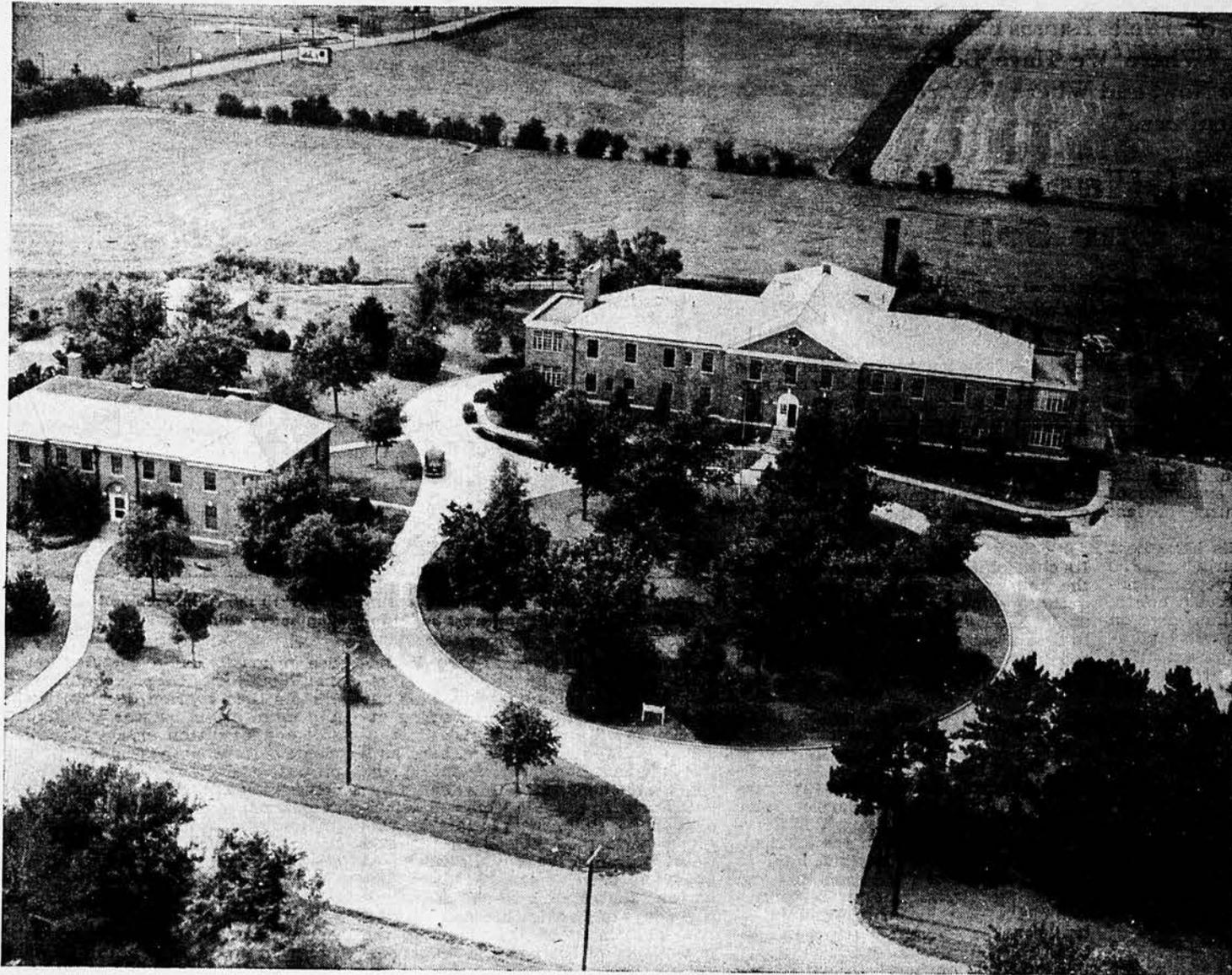
(Continued on Page 30)



TEST PLOTS: Field plot studies were started at the branch agricultural experiment stations at Hays in 1907, Garden City in 1909, and Colby in 1914. Systematic field experiments were started at the Agronomy Farm at Manhattan in 1910. Idea was to study tillage methods, soil treatment, cropping systems and crop varieties.



SOIL SAVING: Terracing for soil and moisture conservation is coming into its own. However, only a relatively few farms have adequate soil-saving programs.



CO-OPERATION DOES IT (Above): Farmers and townfolks have worked together to make the Beloit Community Hospital serve hospital needs of North Central Kansas for the last 20 years. Nurses' home is at left.

Everybody's Hospital

By Henrietta Boyd

A COMMUNITY hospital may be the answer to many health problems in any small town or community. And it isn't always necessary to have government aid, if everyone wants a hospital badly enough and is willing to do what it takes to have one.

An excellent example of this is the Beloit Community Hospital, which last fall celebrated its 20th year of lifesaving services to an area having a radius of 35 to 60 miles.

The 50-bed hospital always is filled to capacity, and no one is refused medical aid even though he may be a charity case. The records for 20 years of operation (up to January 1, 1950) show that 4,018 births, and 24,493 general admitted—paid and charity—cases have been handled at the hospital.

This beneficial hospital is supported not only by the civic-minded residents of Beloit, but also by people of the many surrounding farm communities. Everyone in the district is interested and all give their time, money, or both, for its support.

On December 11, 1929, the community hospital was dedicated as a nonprofit institution to serve as a health center for North Central Kansas. The project was sponsored by residents of the area and the Commonwealth Fund of New York City. The Commonwealth donated \$160,000 and the people of the Beloit area raised

This is the way one Kansas community solved its health problems; perhaps the same ideas will work for others

\$80,000. The hospital at Beloit is one of 16 in the United States established thru aid from the Commonwealth Fund. Since it was established, however, the hospital has been kept operating entirely thru local support.

Administrative duties of the hospital are carried on by an executive board of 17 members whose homes are scattered thruout the area served by the hospital. [Continued on Page 33]

A WOMAN IS BOSS (Below): As superintendent, Mrs. Alma Stuve Reiter has aid of a 17-member board of directors in running 50-bed community hospital. She is a farm girl who was active in 4-H Club work before taking up hospital work.



SUPERVISES OPERATING ROOM (Above): Loretta Stover, operating-room supervisor, also has taken post-graduate work in operating-room technique.



IMPROVES TECHNIQUE (Above): Wanda West, anesthetist, has taken a post-graduate course in anesthesia at Johns Hopkins.



Farm Matters

AS I SEE THEM

WHEN I look over the farm picture today, with the Administration program of permanently subsidizing everybody's grocery bill thru the so-called Brannan Plan, my mind goes back to the early days of the war, when farm leaders, like Albert S. Goss of the Grange and others, and I myself, warned against the pernicious effects of food subsidies.

Recipients of government subsidies become all too soon, in effect, subsidy addicts just as certainly as users of certain drugs become "dope" addicts. There are drugs whose use in an emergency, to alleviate pain, are most helpful. But there always is the danger that the patient will want to use them all the time—and in increased dosages.

At risk of generalizing too broadly, I think it might be said that government subsidies—government supporting the individual—are the opiate of democracies. Historically that seems to be a correct statement.

Just as the drug addict becomes the dependent slave of whoever supplies him with the drug he craves—the drug that has become a necessity—so with the subsidy addict.

I write this partly because of a story from Washington, D. C., by Ovid A. Martin, who covers the Department of Agriculture in Washington for the Associated Press. Many in Kansas still remember Ovid's covering of state-house and state-wide Kansas news in the middle and late Thirties. He is a good reporter, and an understanding observer.

Mounting surpluses of both perishable and nonperishable farm commodities receiving government price supports are being used by advocates of the Brannan Plan to foist it permanently upon the country—particularly upon the farmers and taxpayers.

Under that plan, the government no longer would buy up surplus perishables to hold up prices to producers. Instead it would allow the whole supply to move to market at whatever price it would bring. If the prices a farmer received would not provide him with what the Administration in power figured was a fair income, the difference would be made up from the Federal treasury thru annual appropriations by Congress.

In the long run, that would give the Federal government—the Administration in power—control of the food supply of the nation. Government would control the production and marketing of farm products; government would control the supply of food for consumers. Ultimately these controls would have to be made effective thru use of enlarged police power of the central (Washington) government.

"Word reaching the lawmakers from both farmers and consumers indicate that Brannan (Secretary of Agriculture) is making headway in his effort to brand the present program a failure and to sell the public on his plan," Ovid A. Martin reports. "Brannan says his program would assure farmers prosperity and give consumers cheaper food."

As I have warned before, the present farm program is due for re-examination, for an overhauling. During the war the Government wanted, needed, big increases in production of food and other farm commodities. To get that increase, price supports were set at levels that would be incentives for increasing production.

Price supports for the basic commodities—which are storable nonperishables—were set at 90 per cent of parity. Also, the 90 per cent of parity price supports were given 18 or 20 non-storable perishables thru what became known as the Steagall amendments.

In addition, and very properly, farmers were promised that for 2 years after war's end the high incentive price supports would be continued. This was to have cushioned the shock of the postwar transition period, while farmers were adjusting production to postwar market demands.

But now we are in the fifth year after hostilities ceased. The price supports are still "incentive price" supports, instead of "stop-loss" price supports. In the 80th Congress an earnest attempt was made, thru the Aiken bill, to taper off the price-support program thru a so-called flexible price-support program, which would protect farmers against loss, but would use the law of supply and demand to bring supply more in line with demand. That was passed in 1948. It was not a perfect law, but I think it contained a better program, more in the long-range interest of farmers, than the 1949 act which superseded it. Admittedly the 1949 act will pile up surpluses far beyond the ability of taxpayers to support, after the United States has ceased providing foreign governments the funds with which to purchase our commodities. Unless, of course, another war creates a wartime need for forced production from American farms.

The present program must be revised. But substituting the Brannan Plan for it would be like plunging farmers and taxpayers both from the frying pan into the fire.

How Many Bushels?

I KNOW every Kansas farmer believes it is necessary to stop soil erosion. Any one of you can tell of losses in crop yields on fields where soil has washed away. But how much damage actually results has been a matter of speculation. Now comes the Bureau of Agricultural Economics with some figures in which I think you will be interested.

The Bureau asks the question, "One inch of topsoil equals how many bushels?" Then goes on to solve that problem. Experiments in several states, for example, show that on the average loss of an inch of topsoil from an acre of cropland reduces annual corn yields by 2 to 6 bushels, oats yields by 1½ to 5½ bushels, wheat by 0.7 to 3 bushels, potatoes by 5 to 10 bushels and hay by 200 to 400 pounds an acre.

Other studies indicate erosion of topsoil definitely reduces yields of soybeans, grapes, cotton, tobacco and barley. Tests are being conducted now to show relationship between yields of these crops and depth of topsoil. Strangely there have been exceptions found to this rule of "less topsoil, lower yields." That is to say, yields of certain crops haven't always declined as the topsoil washed away. Some soils have subsoils with a better capacity for holding moisture and fertilizer than the topsoil. On most soils, tho, the Bureau reports, subsoil is less

productive than the topsoil. So in general it is safe to assume that loss of an inch of topsoil is serious. Being able to measure soil loss in terms of lost bushels of grain is helpful. It will aid a landowner in figuring how much he can afford to

spend on erosion-control measures. As you would expect, loss of an inch of topsoil has less effect on crop yields where topsoil is deep than where it is shallow. But deep topsoil in time will be thin topsoil if erosion isn't checked. I say checked, because it probably isn't possible to stop erosion entirely.

I think this is interesting. The Bureau's experiments indicate the importance of keeping topsoil as evenly distributed over a field as possible. It was found that if topsoil from the higher part of a field is eroded and deposited on a lower area, total yield of the field will be lowered. In other words, topsoil which is washed down into the lower part of a field is much less productive in its new location than it was back on the upper part of the field. That doesn't mean, however, that it wouldn't pay in the long run to fill the gullies.

As an example the Bureau cites a field on which the topsoil averaged 8 inches, and on which corn yield was 68 bushels an acre. As a result of erosion, 4 inches of topsoil was moved from the upper part of the field to the lower part, making a depth of 12 inches there. Yield on this 12-inch soil was placed at 81 bushels—a gain of 13 bushels over the former 8-inch topsoil. On the other hand, yield on the part of the field where topsoil had been reduced 4 inches was placed at 51 bushels—a loss of 17 bushels.

Such experiments emphasize the value of keeping the topsoil in place on a field. Altho an erosion-control practice may reduce loss of soil from a field, it may still permit movement of soil within the field.

According to the Bureau, it usually takes several years for an inch of topsoil to be eroded away. An inch of topsoil over an acre of land weighs about 150 tons—enough to fill 3 railroad coal cars. A ton of topsoil equals about one cubic yard. Once that topsoil is gone there is little that can be done toward bringing back its productive capacity. I think this is important. The Bureau states that treatment of soil may help replace yield reductions due to loss of topsoil, but the same treatment on land before it had been eroded would have increased yields.

One problem pointed out is the fact that loss in yields will not be matched by a proportional drop in production costs since seed, planting, cultivating and harvesting cost about as much when yields are low as when they are high. Some costs might even go higher because of ditches and gullies eroded in fields. Then, too, lower yields would affect the sale value of the land.

All this simply goes to prove further that holding soil where it belongs is an absolute must. Even when putting an erosion-control program into effect means a temporary loss of income, it will pay in the long run.

Arthur Capper
Topeka.

Same Old Tune--Farmers Get the Blame

By CLIF STRATTON

Kansas Farmer's National Affairs Editor

WASHINGTON, D. C.—Barring an early war, or a very bad crop year or two—instead of too little too late, it may have been too much too long, so far as the postwar farm price-support program is concerned.

During war years, 90 per cent price supports for nonperishable basic commodities, and for the so-called Steagall perishable nonbasics, were highly de-

sirable. Price supports at that level undoubtedly were an incentive to get increased production of commodities necessary to the war effort.

Also necessary, and equitable to farmer producers, was the promise of

continuation of the price-support program for 2 full years after hostilities ceased.

But now certain groups are pointing out that high price supports are being carried into the fifth year of harvests

since active hostilities ceased. And they still are incentives for production to the limit of the commodities given price supports.

In the case of storable basic commodities, with storage space available, the program could be justified to the city folks on the ground that world conditions are so chaotic large reserves (Continued on Page 32)

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Lambs on Wheat Did Mighty Well

JUST how potent is wheat pasture in lamb feeding? Lambs fattened on wheat pasture during the 1949-50 grazing season at Garden City actually gained as much as those fed milo grain, cottonseed cake and alfalfa hay in the dry lot, it was reported at the 16th annual Lamb Feeders Day, March 4.

Not only did the wheat-pasture lambs gain as much, but they put on those gains for about one third the cost of dry-lot feeding. Wheat-pasture lambs gained at the rate of .35 pound daily while those in the dry lot gained .33 pound daily. Costs of gain per hundredweight were \$4.74 for wheat pasture and \$15.86 for dry lot.

Other observations reported as a result of the various feeding tests were: There was no conclusive evidence that it does any good to vaccinate lambs on wheat pasture to prevent overeating disease.

Feeding bicarbonate of soda or a mineral mixture to lambs on wheat pasture failed to improve gains or cut death losses from overeating.

"Despite difficulties during the last

few years and the uncertainties that lie ahead, an efficiently managed sheep enterprise should be rewarding in years to come," sheepmen were told by Russ Plager, agricultural service representative for John Morrell & Co. He suggested that more attention be given to increasing size of the lamb crop, and in marketing smaller lambs to meet the consumer demand for small cuts.

Farmers attending the field day were warned by Andrew Erhart, superintendent of the Garden City station, that future prosperity for the area cannot rest alone in wheat production. Quoting local wheat production figures, he pointed out that during the 9 years, 1932-1940, the average annual abandonment for wheat was 55 per cent of seeded acreage, and that average yields on harvested wheat was only 2.1 bushels for continuous cropping and 6.6 bushels for summer fallow.

"Even during the boom years of 1941-1949," he said, "annual abandonment has been 11 per cent. Abandonment for the 39 year period, 1911-1949, has been 31 per cent.

What Lamb Feeders Asked

HERE are highlights from the question-and-answer session held in connection with Lamb Feeders Day, March 4, at Garden City:

Question—How can soda be fed to lambs on wheat pasture?

*Answer—*In the drinking water and mixed with salt. One part soda to 9 parts salt and the rest in the drinking water. 1.6 pounds soda to 100 lambs is the daily amount recommended.

Question—What caused death losses in various lots of experimental lambs (both dry lot and on wheat pasture)?

*Answer—*Overeating caused all deaths in all lots.

Question—How much protein is contained in average sorghum silage?

*Answer—*Between 6 and 7 per cent.

Question—What do you think of a complete ration of pellets for fattening lambs?

*Answer—*You can absolutely control the percentage of everything you want lambs to get by pellet feeding and waste is held to a minimum. Some roughage should be fed on the side, however.

Question—Are sheep and lambs immune to foot-and-mouth disease?

*Answer—*No, but they are not as susceptible as cattle.

Question—What can we do about tapeworms in lambs?

*Answer—*A new nontoxic metallic drug is now on the market and is reported by sheepmen as successful. This drug removes the coating that protects the worms so the bile can kill them.

Question—What kind of prices can we expect on feeder lambs next fall?

*Answer—*Most contracts to date have run from a low of 21 cents to a high of 23 cents.

Question—When is the best time of day to feed grain?

*Answer—*Time of day is not too important. Usually fed night and morning.

Question—How was alfalfa fed to feeder lambs in the dry lot?

*Answer—*Ground and placed in bunks at night.

Question—Can lambs be vaccinated against worms?

*Answer—*No.

Question—Can silage be used as the only roughage for lambs?

*Answer—*Where silage is only roughage used lambs are hard to keep on feed after 50 to 60 days. Need some dry roughage, too.

Question—Why do lambs sometimes go lame while on wheat pasture?

*Answer—*Lameness usually is a sign of overeating disease.

Question—Can lambs overeat on salt?

*Answer—*Yes. If allowed free access to loose salt when they first come off range, lambs will overeat.

Question—Does it pay to shear feeder lambs?

*Answer—*It would pay some years, like this one, or if it is necessary to hold lambs into warm weather.

Question—What is the effect of pasturing on wheat yields?

*Answer—*If not overdone, pasturing tends to benefit wheat yields.

Question—Do we need to feed protein to lambs on wheat pasture?

*Answer—*No. Protein analyses of wheat pastured in experiments this past growing season showed that on November 2, 1949, volunteer wheat had 23.46 per cent protein and drilled wheat on fallow 27.53 per cent. On February 16, 1950, the volunteer wheat still had 16.67 per cent protein and the drilled wheat on fallow 25.73 per cent.

Question—What is wheat poisoning?

*Answer—*Wheat poisoning actually is lack of calcium in the blood stream. Where the potassium intake of an animal is 3 or 4 times the needed amount (as it is on wheat pasture) the calcium requirement is raised in proportion.

Now Have Eleven Soil-Testing Labs

ELEVEN county-owned soil-testing laboratories will be in operation in Kansas within a very short time. And it was only a year ago the first county laboratory in the state was opened for business down at Winfield, in Cowley county.

Late in February, Dr. R. V. Olson conducted a special soil-testing school in Manhattan for county agents who would begin working with county laboratories for the first time this year. Doctor Olson is in charge of the state laboratory operating at Kansas State

College and lends assistance to the various county agents who have laboratories in their county Extension offices.

Wyandotte, Dickinson and Nemaha counties had equipment installed and were ready to begin testing soils in their areas March 1, Doctor Olson reported. Morris and Mitchell counties had ordered necessary equipment and will begin operations as soon as installations are made.

Other counties having soil-testing facilities include Butler, Bourbon, Crawford, Labette and Brown counties.

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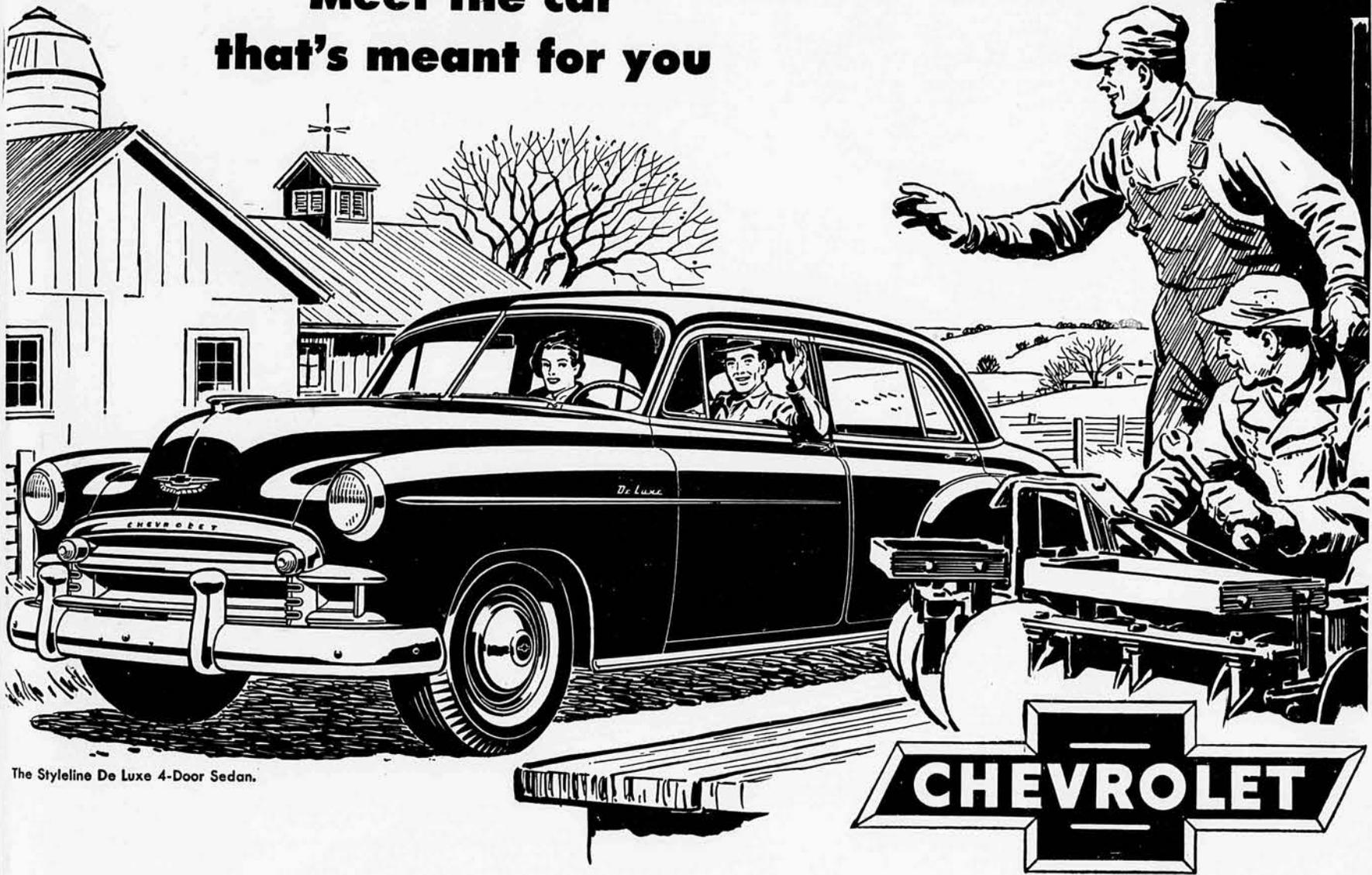
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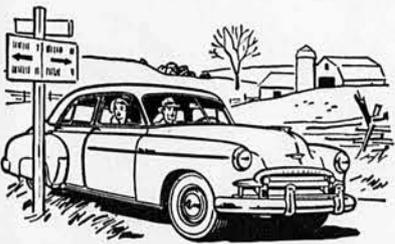
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Your whole family rides in uncrowded comfort in Chevrolet's roomy interior. Those wide "five-foot" seats and luxurious new two-tone interiors add an extra treat to Sunday drives. And you'll really appreciate Chevrolet's giant-size trunk on those buying trips to town!

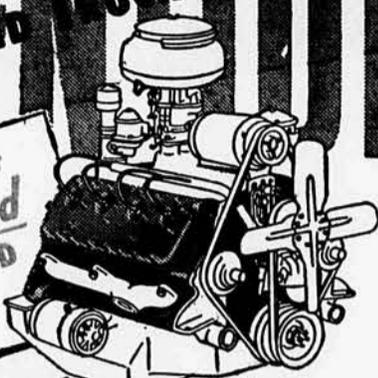


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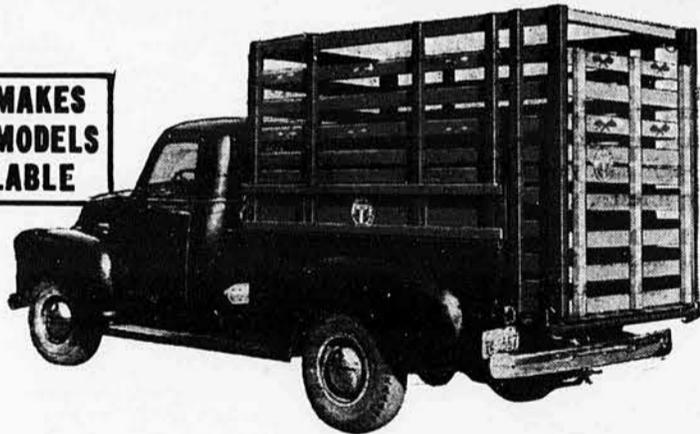


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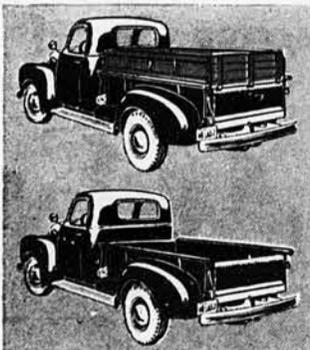


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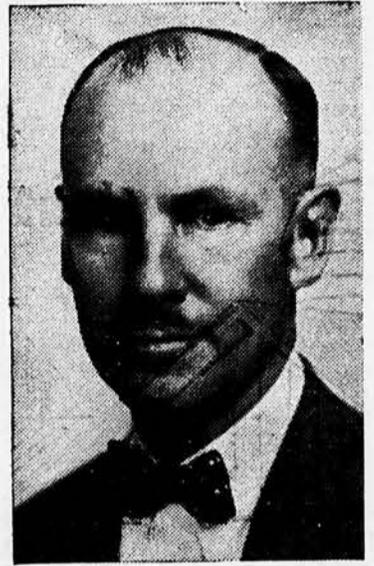
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Beloit Is Host

To North Central Kansas Farm Conference



Dr. Rufus Cox



Prof. F. W. Atkeson

BELOIT will be host to the annual North Central Kansas Farm, Home and Industrial conference, March 29 and 30. This event is sponsored by the Beloit Chamber of Commerce in co-operation with the Extension Service of Kansas State College at Manhattan. Previous similar events were held in Topeka early in December and in Coffeyville the latter part of January.

General assembly programs will open each day's events at Beloit. First morning speakers include Mayor M. P. Schaeffel, of Beloit, who will give the welcome; Paul W. Griffith, C. R. Jaccard and Gladys Myers, Extension economists at the college, and Warren Blazier, personnel director for the Beech Airplane Company, Wichita.

Griffith's topic is "Your District Farm, Home and Industrial Conference." Jaccard will discuss federal farm programs and ask, "Which One?" Industry benefits everyone is the subject of Blazier's talk, and Miss Myers has the topic, "We Make Our Communities."

Separate home economics, agricul-

ture and industrial sessions will be held each afternoon of the conference.

A demonstration and discussion of new ways with meat will be given March 29 by Helen Shepard, home economist with the National Livestock and Meat Board, Chicago. The home economists program for the afternoon of March 30 will be varied. A talk on understanding our neighbors will be given by a foreign student at Kansas State College; Mrs. Carol Stensland, executive secretary, Kansas Commission for UNESCO, will speak on the topic, "Where We Are on UNESCO"; a discussion and participation number on recreation as a part of everyday living will be given and directed by Virginia Lee Green, Extension recreation specialist; and Georgiana H. Smurthwaite, state home demonstration leader at the College, will give an over-all view of home demonstration work and present the standard of excellence awards to the home demonstration units of north central Kansas that have earned them.

Four Kansas State faculty members
(Continued on Page 11)



Georgiana Smurthwaite



Gladys Myers



Dr. H. E. Myers



Virginia Lee Green

will discuss topics of general interest at the 2 farm sessions. On March 29, Dr. H. E. Myers, head of the agronomy department, and L. E. Willoughby, Extension agronomist, are to speak. Doctor Myers has the subject, "Practical Solutions to Crops and Soils Problems in North Central Kansas." Willoughby will discuss fertilizing crops in North Central Kansas.

Dr. Rufus S. Cox, head of the animal husbandry department, and Prof. F. W. Atkeson, head of the dairy husbandry department, are the March 30 speakers. Cox has the topic of livestock problems and their solutions, and Atkeson will tell of the Kansas artificial dairy-breeding program.

The opening industrial session on March 29 will have Robert C. Bird, executive secretary, Western Kansas Development Association, Garden City, and George Weeks, manager, western division, Kansas Industrial Development Commission, Dodge City. Bird will discuss plans for helping industry and Weeks will have the subject, "Helping Western Industries Start."

A dinner for exhibitors and industrialists visiting the Beloit conference



L. E. Willoughby

will be held the evening of March 29.

Rural youth of the area will have a party in the main auditorium of the city auditorium at 8 p. m., March 29.

The industrial session on March 30 will be addressed by Gerald Gordon and John Sutherland. Gordon, secretary of the Associated Industries of Kansas, Topeka, will speak on present Kansas industries. Sutherland, research director, Kansas Industrial Development Commission, will discuss possibilities of new industries.

Speakers for the general assembly the morning of March 30 are L. C. Aicher, superintendent, Fort Hays branch experiment station of Kansas State College, and C. C. Kilker, Topeka, manager of the Kansas State Chamber of Commerce. Balancing and adjusting agriculture in Central Kansas is Aicher's subject, and Kilker will talk on "Your Future Industrial Growth."

Special features will include music by various groups and a luncheon for county home demonstration advisory committees.



L. C. Aicher

Temporary Pasture Aids Creep-Feeding

GOOD, temporary pasture both spring and fall help Marcus Ferree, Woodson county, make his creep-feeding program more profitable. He figures on at least 3 months of grazing each year on temporary pasture. That helps stretch the grazing season up to 9 months out of the year.

He seeds 15 acres of sweet clover each spring. For his herd of 25 cows and their calves, that clover provides 60 to 70 days of good grazing each following spring. Then in fall he lets his cattle eat the last crop of alfalfa right out in the field instead of cutting the hay and bringing it in for winter feed.

Fall calves are important in creep-feeding, Mr. Ferree points out. In the first place it is not necessary to handle them so long. Early-fall calves can be made ready for that good fall market the following year. They will hit that market weighing 850 to 900 pounds. Spring calves have to get up and go to

reach 800 pounds by grass time the following spring. Then 2 sets of calves are on the farm thru the grazing months.

Like other producers of fall calves, Mr. Ferree has noticed the cows seem to flush-up in spring, giving more milk for calves at an age when they are able to consume it.

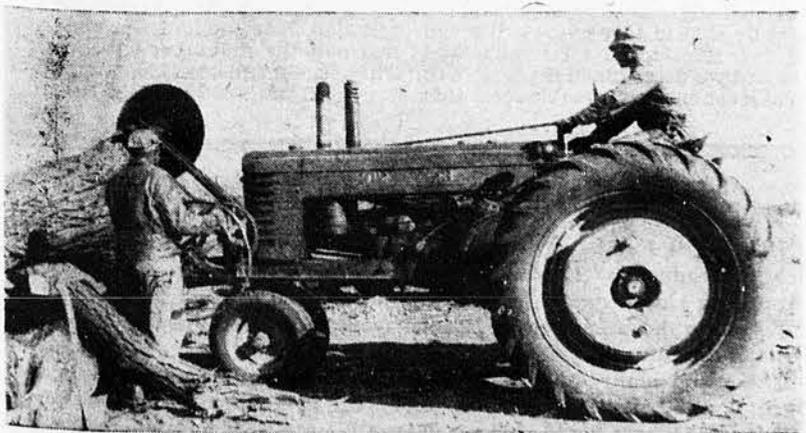
At a cost of about \$10 or less for additional grain for each calf, Mr. Ferree figures a return of \$50 to \$75 more due to creep-feeding.

Chicks Are Tough

Day-old chicks are tougher than you think. Purdue University poultry specialists recently found that day-old chicks withstood altitudes of 20,000 feet and pressure changes equal to soaring or dropping at 5,000 feet a minute.

The tests were made to determine how safe it is to fly day-old chicks.

Made a Saw Rig



Here is a picture of a saw rig I made for my John Deere to cut up logs, side-trim hedge and trees up to 8 1/2 feet high and to cut hedges and trees down. It does very well and we have plenty of power and it saves us a lot of hard work.—Fred Bitikofer, Canton.

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reports Clayton Cole, Wellington, Kansas

Other buildings with conventional corrugated roofs, badly damaged by terrific wind and hail



"When roofing can stand up under the kind of storms we have in Kansas, you can bet I'll recommend it to any farmer," writes Clayton Cole of Wellington, Kansas. "Shortly after I put Granite City STRONGBARN roofing on a new garage on my farm, we had the worst hail storm that I can remember in all my years in Wellington. The storm was so intense it killed chickens, blew buildings down and tore off conventional grade roofing for miles around."

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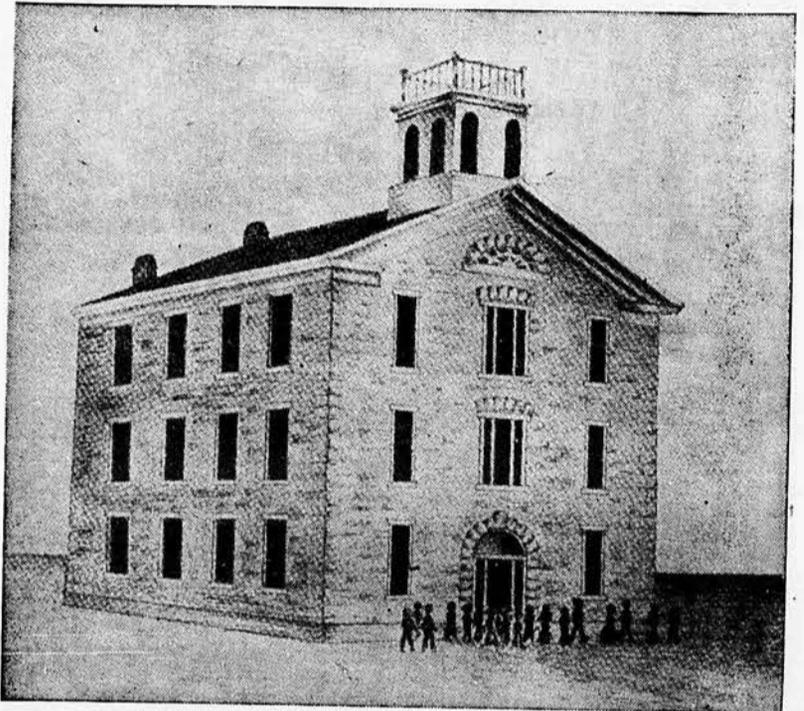
saves you money because it is lighter. Also because Purlins and Girts in new buildings can be spaced further apart than required for conventional galvanized roofing and siding.

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Fourth and final in series of "Wells" articles. All were written from a collection of letters deposited with the State Historical Society.

This Was Life In Early Kansas

By LELA BARNES



EARLY COLLEGE: Bluemont Central College building, Manhattan, 1859. It was given to the state in 1863 and the first classes of Kansas State College were held here. The building was razed in 1883. Picture thru courtesy of the Kansas State Historical Society.

THE Lecompton constitution, which was a proslavery document, was submitted to Congress early in 1858, and Free State settlers in the Territory anxiously awaited the outcome. Thomas wrote to his mother: "We do not despair of a free state yet. The people of Kansas will not be the slaves of the administration or the South. There are wise heads here as well as in Washington and the plans of the slave power for our subjugation will be thwarted, peaceably if they can be, forceably if they must—at all events Kansas must be free." (The Lecompton constitution was overwhelmingly defeated on August 2, 1858.)

Thomas paid for his claim late in 1857 and began the new year with many plans for its development. He meant to plow and plant 25 acres, build 1 1/4 miles of fence, set out forest and fruit trees and make improvements on the house. He did not write to his parents so frequently during 1858 and details on his progress are lacking. But with the beginning of 1859, his letters indicate that he had worked perseveringly on his program.

With the help of a neighbor, he husked 20 acres of corn during the winter. "We drive into the field with a two horse team, husk the corn as it stands, and throw into the wagon. You wonder why we did not get our corn in in the fall. You must always remember that this is a new country and only three years ago we settled on the naked prairie, everything was to be done, and we cannot do that in three years. We had lived two winters in an unplastered house and we determined if possible to have at least one comfortable room this

winter, and I did nearly all the work myself, then I had to attend court a week as juror, etc., etc. . . . I shall try to plan things differently this year so as to commence gathering my corn as soon as it is fit. I have had to learn everything by experience; sometimes such knowledge has cost me considerable. I shall have about 600 bushels of corn to sell. It was the first crop on the land or I should have had much more. Corn is worth but thirty cents here now, but we think the Pike's Peak emigration will raise the value to perhaps one dollar or more per bushel in a month or two."

Many trees were set out near the house—a small forest of black locusts and cottonwoods as well as 30 peach trees, 16 apple and a dozen or more Kansas plums, about 200 in all. A good size yard was built for the hens to prevent raids on the garden. And there was the flower garden. Thruout the letters are references to flowers, and when Thomas had come to the end of his useful life, it was noted that his study and cultivation of flowers had enriched his own life and had brought joy to his friends and neighbors.

In May of 1859, Ella wrote one of her infrequent letters to Thomas' mother. Thomas held the opinion that women were curious and wanted to know everything, so Ella applied herself to a detailed report on small matters. She wrote that she possessed a petunia, taken up in the fall and planted in a cigar box. (A flowerpot was out of the question. A friend had sent one but she had had the misfortune to break it.) The petunia had been blooming bravely

(Continued on Page 13)

Coming, April 1 . . .

How big is Kansas agriculture? What is the present situation in each field of production? How about the farm mortgage debt? What changes have taken place over the last half century in land use and population?

What are the lessons to be learned from records of the last 50 years? What of the future?

These and many other interesting questions will be answered in the April 1, 1950, issue of KANSAS FARMER in another of our series of articles on "Where We Have Been, Where We Are Now, and Where We Are Going in Agriculture." We know you will wish to keep this whole series for frequent reference.

since March and she cherished it because house plants were scarce. She would shortly send seeds of the sensitive plant. "I think them quite a curiosity. They will be more sensitive if you do not let the wind reach them. They will drop if a fly lights on them." She had braided all the woolen rags she had, and had braided and sewed three husk mats. The calico on hand had been cut and pieced and she hoped in time to have enough for a spread but frowned on the practice of buying new material to cut up. She prepared bread and wine—from grape jelly—for their church services. Two little doves gave them much happiness.

"You ask where we find market for our chickens," she wrote. "We never have sold many. We eat them as freely as we want and keep the hens to lay. I remember once last year I cooked two a week for eight weeks in succession. . . . We got 2,905 eggs last year. Of this number we sold 1,818, none less than 20 cents per doz. This year we have sold a few dollars worth for 10 cents a dozen, but most of the time for 15 cents. . . . We have six little pigs a few weeks old. Thomas bought me a couple of turkeys this week. They will be profitable if they live and do well. You must excuse me for writing so much about our little affairs. Life is made up of little things."

Relieved of Anxiety

Results of the election of October, 1857, showed there was a preponderance of free state voters in the Territory, and that the power of the pro-slavery forces was by then so diminished that Kansas would ultimately enter the Union as a free state. Relieved of the anxiety that beset them during the troubled years, settlers looked to the future with assurance and made plans for development of the land and the building of cities.

Manhattan was approved by the Methodist Episcopal church as a location for a college and land south of Thomas' claim was acquired for this purpose. It was to be known as Blue-mont Central College. Construction of the main building was begun in the spring of 1859 and Thomas wrote: "They had speeches, etc., at the laying of the corner stone of the Bluemont Central College last Tuesday afternoon (May 10). About three hundred people were present and some very good speeches were made. Quite a number of documents were placed in the cavity of the stone. The college building will be 40 ft. x 60 ft. on the ground and three stories high, all stone. It will be in full view from our house, half a mile distant." (The building was given to the state in 1863 and the first classes for Kansas State College were held in it. It was razed in 1883.)

Doubled Price of Corn

Thomas wrote of general growth and improvement in Manhattan. There were by now two steam sawmills, and buildings and dwellings were going up. The hundreds of gold-seekers passing thru on their way to the Pike's Peak region created a brisk trade for merchants. "They come from all parts of the country, from various classes in society and they travel in all sorts of ways. Some come with horses, mules or oxen, and others come drawing handcarts, rolling wheelbarrows, or lugging packs on their backs." They had nearly doubled the price of corn for the farmers.

The first number of the Manhattan Express was issued. Thomas had much interest in this publication and sent it regularly to his parents. When the foreman of the printing office left hurriedly, for parts unknown, Thomas helped until another regular printer arrived.

From the beginning Thomas was an active member of the First Congregational church (its first meeting was held in a tent) and Ella united with that organization after their marriage. Thomas was chosen a deacon in 1858 but for some reason did not report this to his parents. Ella, however, saw no reason to suppress the information and wrote with pride of his selection. The church building, when nearly completed, was unroofed by a tornado. It was subsequently finished and dedicated in July, 1859.

First Crop of Wheat

Thomas planted his first winter wheat—5½ acres—in the autumn of 1859. He had tried spring wheat but with little success. However, there was enough for their own use. Because no flour mill had yet been built in the vicinity, he had his wheat ground into a sort of meal and Ella made it into graham bread. He planned to put in ½ acre of sugar cane. "I can get molasses made for half of it if I strip the leaves off and haul it to the mill, and what I plant, if it does well, will make some 25 or 30 gallons at least."

The beginning of 1860 found Thomas planning further development of his claim and working tirelessly. Sometimes, however, longing to be near his parents led him to consider whether it would be advisable to remove with Ella to the East. "But it would be hard," he wrote his parents, "to give up our Kansas home. Here we have lived and labored for several years, and they have been happy years. This has been our first home together. My own hands have helped to build our little house and the other buildings, and also the fences. Here I have set out trees, here I have plowed and planted and harvested. We might move to some other place and be happy, but no other place will ever seem to us like our first home in Kansas."

The year (1860) was one of great discouragement to settlers because of drouth and generally unfavorable conditions. Failure of crops brought widespread suffering and many left the Territory. Thomas and Ella determined to stay on, at least for a time.

Reported on Trip

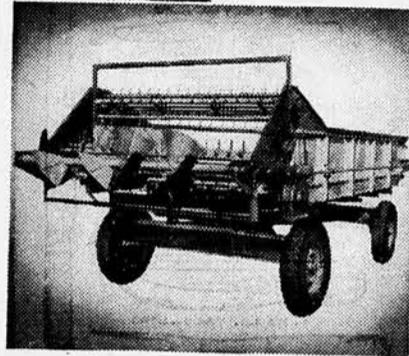
The letters do not go beyond the end of 1860. (There would seem to be no reason for this circumstance except that Thomas' family did not preserve his later letters.) The usual matters were reported during that year, but one event was described in detail—a trip to Leavenworth in a covered wagon. Thomas and Ella traveled down the south side of the Kansas, fording the river at Manhattan. They passed thru Wabunsee, the Pottawatomie reserve, Topeka, Tecumseh, Big Springs, Le-compton and Lawrence, fording the river at that point. Leavenworth was found to be "a very busy place of about 2,000 inhabitants." On the return trip they passed thru Grasshopper Falls (now Valley Falls), Rochester, Indianola, Louisville and St. George. They were 9 days on the road.

Thomas lived out his years in Manhattan, esteemed and loved by his neighbors. He died in January, 1907.

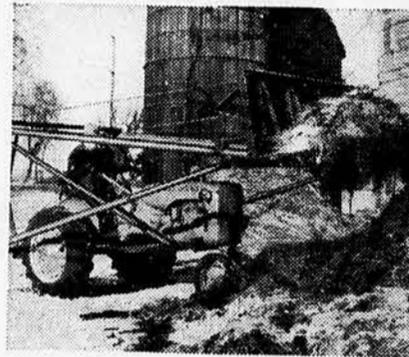
"This great FARMHAND Team" loads...hauls...spreads in 1/3 the time!"



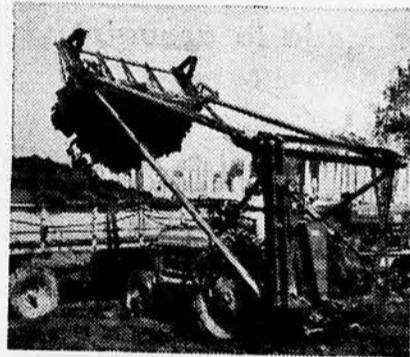
FARMHAND "Power-Box" with automatic unloader and beaters, plus new "Special" Loader for smaller tractors (with full width manure fork).



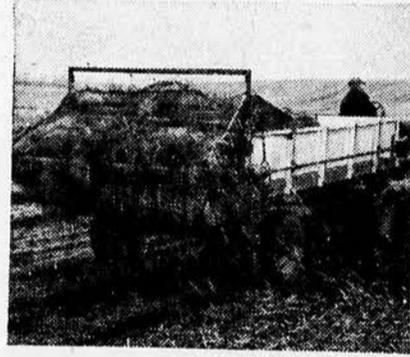
WHAT A SPREADER! This high-capacity FARMHAND "Power-Box" is 3 to 4 times faster than ordinary spreaders . . . takes up to 5 tons per load . . . distributes manure evenly through take-off powered unloading apron and high speed beaters. Acid-resistant wood and aluminum extra-wide design . . . precision mechanism.



WHAT A LOADER! The new FARMHAND "Special" is designed for smaller tractors . . . gives you full 2,000 lb. lift, 17-foot high reach and FARMHAND's famous "Wrist-Action" versatility in a compact model you can drive right into barn or shed. Seven new engineering features add speed, safety, convenience.



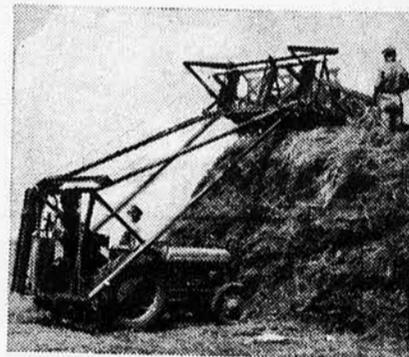
FILL 'ER UP! The "Special" with big full-width manure fork clears loads full width of tractor, lifts 1,000 lbs. of manure at a time, fills the "Power-Box" in less than 5 minutes! Smooth hydraulic action is under instant operator control. Self-leveling. Spring back-stops hold attachments securely in any position.



THERE SHE GOES! The "Power-Box" will distribute that 5 ton load in six minutes entirely by power, under full control. Box fits any rig . . . FARMHAND "90" Wagon or Single Axle Trailer . . . or mounts on truck for fast road hauling and spreading on distant fields. Spreader attachment dismounts easily when spreading is done.



ALL-PURPOSE BOX. The "Power-Box" will haul and unload automatically almost every kind of loose or bulky load on the farm . . . ensilage, feed corn, bales, shocks, grain, dirt, snow, etc. Unloads entire load or any part, with a touch of the lever. Does more work per dollar invested than any wagon box on the market.



ALL-PURPOSE LOADER. Ideal for haying; builds big stacks with hay baskets and Push-Off (see picture). Other attachments for lifting, loading, snow plowing, scooping and handling all types of bulk or loose materials. Power take-off shaft runs through pump for operating other implements, too.

Important Census Year

Have you received your 1950 census questionnaire for agriculture? These agricultural questionnaires were mailed to farmers during March to give each one time to fill in the questions before the census taker arrives in April.

This quite probably is one of the most important census years, because of the unprecedented world-wide demand for food. In the United States alone food must be produced for some 20 million more people than were counted in the 1940 census. In addition to that, other millions of hungry persons overseas also are being fed to a considerable extent with food raised on American farms.

Statistics gained from these questionnaires will form the basis for studying farm problems and for developing and applying methods to solve these problems. For that reason it is to the self-interest of all farmers to answer these questionnaires completely and accurately. And the law requires that the questions be answered and the information be truthful.

Census figures cannot be used for taxation purposes, or for regulations and investigations. And census takers are sworn to secrecy when they take their oath of office.

Farmhand "POWER BOX" "SPECIAL" LOADER

WRITE FOR FREE BOOKLET or get the facts from your FARMHAND Dealer

FARMHAND DIVISION SUPERIOR SEPARATOR CO. Hopkins, Minn

Please send me free literature and specifications on

"Power-Box" "Special" Loader "90" Wagon

Heavy Duty Loader Single-Axle Trailer

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Street or R.F.D. Route.....

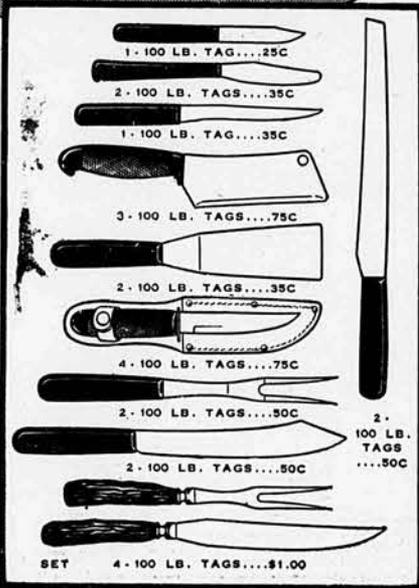
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Talk about bargains! When have you seen Famous Cattaraugus Cutlery at prices like these. Especially when it's made of super-keen vanadium steel. It's one of the most sensational offers ever—and we're making it simply because we want you to try LASSY Feeds. See for yourself how LASSY gets baby chicks and pigs away to a flying start . . . helps them develop into husky, healthy profitmakers with big savings in time, work and money. So take advantage of this generous offer now. See your dealer today! Get a supply of LASSY Feed. Send tags and coin to SCHREIBER MILLS, INC., ST. JOSEPH, MO. Remember, 2 tags from the 50 lb. bargain bundle equals one from a 100 lb. bag.

SCHREIBER MILLS, INC. ST. JOSEPH, MO.

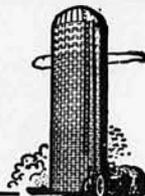
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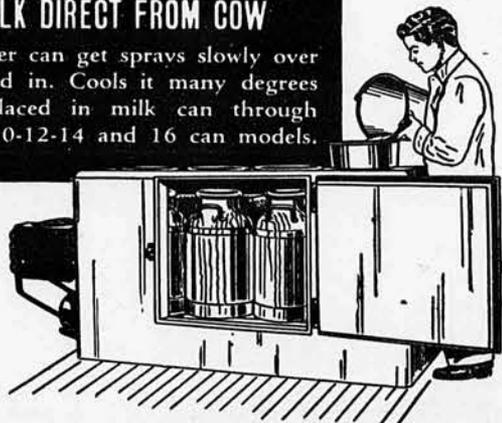


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Thoughts

TO LIVE BY

Man's Value

WE COULD, of course, think about the value of a man to a maid, but that is not our subject for today. Let us consider instead what it is that gives an individual worth. Liberty-loving people speak about the dignity of man. Doesn't that imply he has value? Teaching people to respect others would be foolishness if they were worthless. What is it that gives man value?

Ask astronomy. It tells us we are short-lived creatures dwelling on a third-rate planet in a second-rate universe. Our generation will soon be replaced by other billions just as we replaced those who preceded us. When the flaming sun is consumed, bitter coldness will destroy all life on this earth. Altho distant stars will continue to shine, there will be no one here to see them. Of course, we are the astronomers. We have traced the circuits of the stars and prophecied the direction of destiny, but does that add to our value if our end is frozen oblivion?

Consult chemistry. The body of a man is worth less than that of a sheep. The sulfur, lime and other products in a man's body were worth about 98 cents before inflation. But one cannot buy a great painting for the price of the canvas and the paint. The intangible ability and experience of the artist must also be considered. Would one sell his mother even for the inflated value of the chemicals in her body? Value must surely come from some other source.

Nor does biology help us much in this field. True, our physical bodies give us membership in the animal kingdom. We have many elements in common with the higher animals, but we also have many points of difference. We criticize ourselves.

We rebel against the group to which we give our loyalty. Whereas animals respond only to present stimuli, we are haunted by memories of the past and influenced by dreams of the future. In fact, we resent being judged on the basis of what we are for we are always in the process of becoming something else. Man's value is measured in different terms from that of the horse and the cow.

To the state, our value varies from time to time. In war, we may be counted among the "expendables." A campaign may be worth a million men to a military leader. In peace as in war, a man is worth about as much to the community as the taxes he pays. Ah, but we rebel against such a monetary evaluation. A sweetheart or a child to someone is worth more than all the money in the world. Love has a standard of values not listed in the market place.

Perhaps this Lenten season is the time for us to realize anew that our worth is God-given. It is because God loved the world so much that He gave of Himself in the life of his Son; it is because Christ thought we were worth dying for and because He poured out his life for our redemption that we have value.

That is why we treat our potential enemies, the bums on the street, the members of another race as well as our friends and relatives with respect. They are people of value to us because we are all people of value to God.

—Larry Schwarz

Note: It is hoped these articles are of help to our readers both in making adjustments to life and as a source of devotional material. The author would be happy to hear from anyone to whom these messages have been especially useful. Letters can be addressed to Larry Schwarz, Kansas Farmer, Topeka, Kan.—The Editor.

Vocational Agriculture

By HELEN ANKENY

FRED IRWIG, vice-president of the Shawnee Mission FFA chapter, has been named editor of the Owl's Nest, the annual publication put out by the Shawnee Mission chapter, and supervised by their adviser, H. D. Garver. Bill Amer is the new business manager and is to be assisted by Sam Hoge. All 3 have a big job, as the Owl's Nest is the first printed and illustrated local FFA chapter annual in the United States; and incidentally, it is one of the best. It was first published in 1932, and Tom Wagner, of Shawnee, was the first editor.

In addition to the annual, the chapter mimeographs a publication of a chapter newsletter which keeps each member informed of chapter activities, including those in which he is not participating. The project was initiated by Harry Hedges, chapter reporter elect.

Frankfort. T. Samuelson had high score of 763, and was given a close race for first place by G. Feldhousen, who scored 756, and L. Samuelson, with a score of 750. Cherryvale placed the next 3 high individuals, D. Whirt, R. Blaes, and J. Robinson. Whirt scored 739 points, Blaes, 722, and Robinson, 691.

Stockton Future Farmers, Floyd Blauer, adviser, not only acted as hosts, February 11, to the Northwest District FFA Poultry Judging school, but their judging team also ran up a total score of 1,133½ points to win first place in the contest. On the team were Don Bigge, Dick Muir, and Don (Continued on Page 15)

Kitchen Storage

Well-planned storage in farm homes prevents confusion and disorder and releases time and energy for the family. Carefully planned storage space makes it possible to locate articles without hunting for them. A new Kansas State College Extension bulletin, "Kitchen Storage," Circular No. 198, is full of up-to-date methods with illustrations, which may be used in old or new homes. A free copy of the bulletin may be obtained by writing to Farm Service Editor, Kansas Farmer, Topeka.

The Northeast District Crops Contest held Saturday, February 25, at Valley Falls, Alden Loomis, adviser, was attended by FFA members from 11 schools. Top honors were won by the Frankfort team, coached by Vocational Agriculture instructor H. E. Frank. Their total score was 2,269. Cherryvale, coached by Clem Young, with a score of 2,152, placed second. Third place went to the Meriden team, R. L. Welton, coached; fourth to Olathe, A. G. Jensen, coach; and fifth to the Effingham team, coached by Roy Eck.

The 3 top individuals were from

Odle. The Colby team, Harold Linville, F. Sowers, and R. Frahm, coached by Ronald B. King, placed second with a score of 1,107. Third-place winner was the Alton team, Everett Yoxall, coach. On this team were Deryl Carswell, Emery Poore, and Gorden Williams.

High individual was Don Bigge, Stockton, with a score of 379½, and Dick Muir, Stockton, was a very close second with 377½ points. Third place was won by Harold Linville, Colby, score, 377; and fourth place went to Don Odle, Stockton, 376½.

Teams entered in the contest came from Colby, Alton, Phillipsburg, Hoxie, Smith Center, Osborne, Atwood, Hays, Concordia, Quinter, Plainville, Wakeeney, Downs, Lebanon, Hill City, Norton, Oberlin, and Bird City.

In 1943 the Abilene Future Farmers started a project on borrowed money, which is still in operation. Not only has the project netted a nice little profit for the chapter treasury, but it also was the beginning of the establishment of purebred Durocswine production among the young farmers. Six years ago the chapter borrowed \$302.50 and bought 2 purebred gilts which they put out with 3 members, each boy to return two 100-pound gilts to the chapter. In the last 6 years, gilts returned to the chapter were disposed of as follows: 34 have been placed with boys on contract; 11 have been sold to FFA members; 6 have been sold to adults; and 1 was sold on the market.

Gross receipts from sale of gilts have been \$870. After all expenses were paid, including breeding fees, insurance, original note, interest and registration fees, the chapter had a net profit of \$349.50. Leonard Pike is the Vocational Agriculture instructor.

Monday and Tuesday, May 1 and 2, are dates recently announced for the 27th annual State High School Vocational Agriculture Judging and Farm Mechanics Contest to be held at Kansas State College, Manhattan. Any regularly enrolled undergraduate high-school student under 21 years old, who has not previously competed in agricultural judging contest or farm mechanics contest of state-wide or national importance, will be eligible to enter this contest.

Agricultural judging contests and the farm mechanics contest run at the same time. Entries will close April 17. The 22nd annual convention of the Kansas Association of Future Farmers of America will be held in connection with the contests, and will convene at the same time the contests are being held, May 1 and 2.

Adviser R. D. Brent and his Future Farmers at Downs have been busy working on their Vocational Agriculture department. They have finished putting in a new floor in the shop and a new furnace in the classroom, and have filled and leveled the farm shop drive. They also have finished harvesting their Osborne County corn test plots. A field day held in connection with the corn test plots was attended by 125 farmers and Future Farmers.

Three lots recently were deeded to the Lyndon high school by Mr. and Mrs. Phelon to be used by the Vocational Agriculture department in any way that instructor Wayne Colle and his boys wanted to use them. Melville Hanna, their FFA reporter, stated they probably would be used this year in connection with their co-operative board-



"Supposing the army gives me my choice of jobs—where would that leave YOU?"

and-ram project. . . . Recently the Lyndon department staged a show and demonstration on the new Lincwelder, both AC and DC.

Randolph Future Farmers have been busy recently with community projects, having castrated 60 hogs, dehorned 200 cattle, and vaccinated about 50 head of hogs and cattle since September, under supervision of their instructor, Robert Stephens. In addition, they have run 1,600 square feet of concrete in sidewalks and driveways to their agriculture building, and are now making new cabinets and benches for their farm shop. Randolph has a new Vocational Agriculture building.

The outstanding feature of the Valley Falls program of work, A. H. Loomis, instructor, this year is their goal to produce 100,000 pounds of milk.

More than 6,500 bushels of wheat and barley were cleaned and treated by the Moundridge Future Farmers this fall. C. C. Griffin, Vocational Agriculture instructor, supervised the project.

Members of the Colby, Lebanon, Smith Center, and Norton FFA chapters recently broadcast a series of panel

Poultry Information

Poultry raisers interested in capon production may order Kansas State College Experiment Station bulletin on the subject, No. 335, from Bulletin Service, Kansas Farmer, Topeka. The information is reliable and easily followed.

Poultry leaflets as follows may also be ordered free as long as the supply lasts:

- No. C-1, Poultry Rations.
- No. C-17, Chick Batteries.
- No. C-24, Broiler Production.

discussions over station KXXX, dealing with different phases of soil conservation.

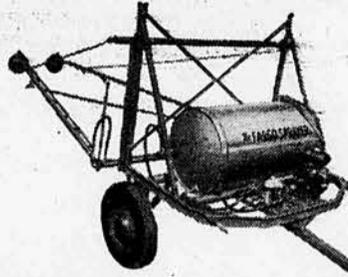
To the Colby FFA chapter, Ronald King, adviser, goes the honor of having the "All-Star" vice-president of that district, both last year and this year. The all-star vice-president is John Stover. . . . As a community service project, the Colby farm lads of Vocational Agriculture class II, are running a concrete floor in one of the larger buildings on the Colby fair grounds. . . . New equipment added to their farm shop during the summer included a power hack saw, a power hand saw, and a metal lathe.

An unusual and worthwhile community service project is being carried on by Kiowa Future Farmers this year, which has the endorsement of rural mail carriers. They are selling signs with the patron's name, and are installing and painting the boxes, supports and posts. Allen Starosta is the instructor at Kiowa.

Howard Campbell, president of the Powhattan FFA chapter, recently won a \$200 scholarship given by the Spencer Chemical Company for soil-conservation work. . . . Members of the chapter and their instructor, Keith Fish, helped harvest the corn hybrid-variety tests plots for Kansas State College.

The 10 high-ranking chapters and their advisers in the state in the FFA Information contests held in connection with the annual FFA Leadership schools were: Dodge City, Chris Langvardt, adviser; Coldwater, L. E. Melia; Colby, Ronald King; Beloit, Howard Bradley; Newton, R. M. Karns; Alma, Frank E. White; Hoxie, Willard Barry; Stockton, Floyd Blauer; Frankfort, H. E. Frank.

The 10 high-ranking individuals in the state were: John Alger, Dodge City; Robert Dayton, Valley Falls; John Stover, Colby; Herb Lee, Bonner Springs; Edgar Wetzels, Dodge City; Jerry Berry, Colby; Dennis Ehm, Phillipsburg; Curtis Lohrding, Coldwater; Vern Schweitzer, Dodge City. Ronald Frahm, Colby; Alvin Kindsvater, Coldwater, and Charles Deyoe, Coldwater, all tied for tenth place.



Here's the 1950 FARGO SPRAYER . . . the Deluxe Trailer Model . . . with booms folded back for easy passage in narrow lanes and through gates.

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There are three Master Models to choose from . . . ONE of them will certainly fit your needs perfectly.

You know, the Fargo Foundry people are just about the oldest in the sprayer business. They've always been FIRST with the latest developments, and they're FIRST AGAIN in 1950.

Sincerely,

JIM

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TRAILER MODEL DeLuxe

This is the finest in spraying equipment. Complete in every respect, including JET-PROPELLED FILLING . . . EXCLUSIVE FARGO CONTROL VALVE for EASIER OPERATING . . . AUTOMATIC BOOM RELEASE safety feature . . . CASTER WHEELS. (Also available with buffer wheels instead of caster wheels, or with both.)

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Here's the model you need if you prefer to use power from your tractor instead of from auxiliary engine. It has all the exclusive features of the DeLuxe model, less the engine. Equipped with either caster wheels or buffer wheels.

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For the man who wants famous FARGO SPRAYER features at lower cost. Has all the exclusive features except jet-propelled filling. Complete with tank, engine, booms, buffer wheels.

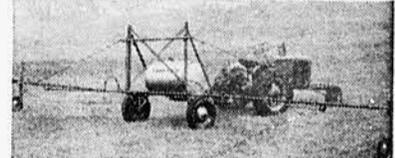
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EXCLUSIVE FEATURES put the FARGO SPRAYER way out front . . . again in 1950! • Famous Fargo Nozzle assures non-clogging, trouble-free operation. • Patented BOOM RELEASE uncouples automatically when boom strikes fence post or other obstacle.

- JET-PROPELLED FILLING fills 125-gallon tank in 6 to 8 minutes.
- ONE VALVE CONTROLS spraying operation from tractor seat.

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Send FREE FOLDER on the 1950 FARGO SPRAYER.

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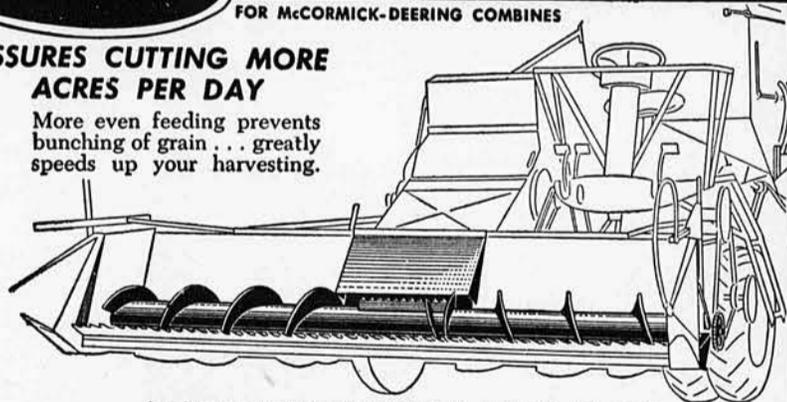
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ASSURES CUTTING MORE ACRES PER DAY

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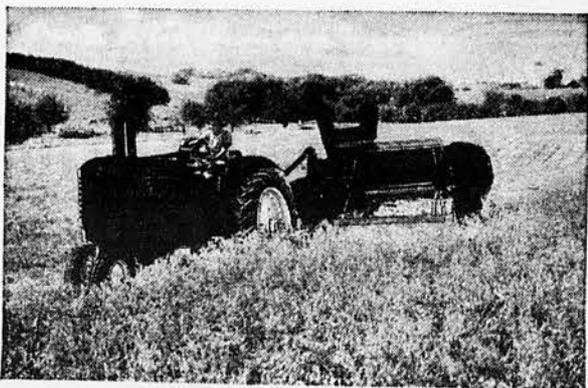
120 EVANS STREET, HESSTON, KANSAS



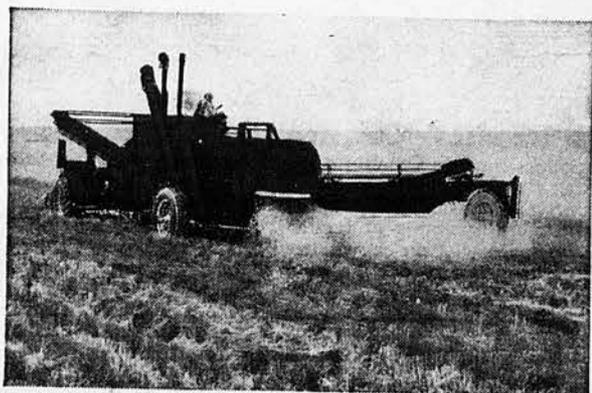
HARVEST MORE ACRES EVERY DAY...

SAVE MORE GRAIN FROM EVERY ACRE...

WITH A TRUSTWORTHY JOHN DEERE COMBINE



● Top picture shows the No. 55 self-propelled in heavy wheat. Small illustration above is the No. 12-A six-foot combine.



● Here's the No. 36 Level Land Combine cutting a 20-foot swath. It really eats up the acres.

INVESTING your money in a time-proved and trustworthy John Deere Combine is sound business judgment. You're putting your valuable crops in the hands of a true guardian of the harvest—a combine that has proved itself as an outstanding grain saver in every possible harvest condition—a combine that has earned a reputation for *harvesting more acres every day—saving more grain from every acre.*

Extra capacity in cutting, threshing, separating, and cleaning units . . . greater simplicity and ease of adjustment in handling all combineable crops . . . *strength and plenty of it* for steady, season after season combining and for low upkeep costs—these are the big reasons why *John Deere Combines lead in owner satisfaction.*

For large-acreage grain growers, the No. 55 Twelve-Foot Combine, shown above, is the leader of the self-propelleds. Ahead in everything that counts in self-propelled combine operation, you'll find the No. 55 offers you greater value for your money.

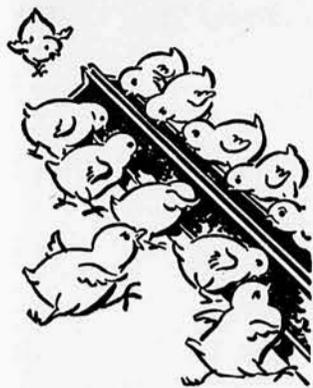
Cutting a six-foot swath, the John Deere No. 12-A Full-Width, Straight-Through Combine is the practical, general-purpose buy for smaller grain acreage or diversified seed crop farmers.

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Chicks Don't Know What to Eat

- Any changes made in feeders or waterers should be done gradually

By TOM AVERY, Department of Poultry Husbandry, Kansas State College

BABY chicks, like newborn pigs, require a great deal of extra attention during the first few days of their lives. Barring a disease outbreak in later life, more chicks die during the first 10 to 14 days than during any other period.

Altho your chicks have arrived, it is not wise to put them in the brooder house unless you are certain everything is ready for them. Even highest-quality chicks cannot grow properly without good care and management. Chicks that become stunted during the first few days seldom develop into normal, healthy birds.

Baby chicks will not eat until they are hungry, but it is essential that an abundance of the proper feed be before them when they are ready to eat. Most chicks will start eating about 36 hours after they hatch. It is only natural that tiny chicks do not know what to eat, or what not to eat. So feed should be placed in the most conspicuous places where there is plenty of light. I have seen tiny chicks whose crops were full that actually starved to death, simply because they had filled up on small pieces of litter instead of feed. Had proper management been followed, this would not have occurred.

Clean egg-cases flats with mash sprinkled on them are commonly used as feeders for the first few days or until they become familiar with regular feeders. Care must be taken to see that litter does not get on top of the feed. Some feeders should be placed under the hover at first, but may be moved out after 2 or 3 days.

Need Plenty of Waterers

Having plenty of good, clean water available at all times is as essential as proper feed. It requires extra labor but chicks learn to drink sooner if numerous small waterers are distributed about the house. After a few days they may be replaced by larger waterers.

Any changes in feeders or waterers should be made gradually. That is, when larger equipment is added, it is best to leave some of the other equipment in the room until chicks learn where the new equipment is. This also applies to adult birds. I knew of some cockerels that were moved into a house where the waterers were upon stands. They were in the habit of drinking from waterers on the floor. Several of these males began to appear sick. Two of them died. Then it was discovered some of these males had not learned to jump up on the platform to drink.

Heat in the brooder house is especially important during the first few days. It is desirable that a temperature of 95 degrees F. to 100 degrees F. under the hover be maintained on a level with the chicks' backs for the first week. Then it should be lowered about 5 degrees each week until chicks are brooder weaned.

It is not necessary to have the entire house the same temperature as under

the hover, as chicks soon learn to get under the hover when they need heat. There is little danger from overheating so long as chicks are not forced to stay under the hover.

A good brooder house not only should be warm and dry but should allow plenty of light and ventilation. It is best to have not more than 3, and preferably not more than 2, chicks per square foot of brooder house space. Experience has proved it is better not to brood more than 500 chicks in one room, and best results are obtained if only 250 are brooded under one hover.

Chicks must learn that the stove and hover are a source of heat to which they can go. They learn quickly by habit, which means it is important to keep them from learning the wrong way. If they once start crowding together at one side of the house to get warm by contact with one another, before they have learned that the hover is a source of heat, it will be very diffi-

New Party Leaflet

Want new suggestions for an April party? Kansas Farmer has just prepared a new leaflet on the subject which contains several games, also instructions for making clever favors. Please address Entertainment Editor, Kansas Farmer, Topeka, and ask for "An April Party." Price 3c.

cult to break them of the crowding habit. For the first 3 or 4 days, chicks may be confined near the hover by placing a circular strip of cardboard or wire a few inches from the outside of the hover. Care must be taken that the hover area does not get too hot while the chicks are confined in this manner.

A few pointers to remember that will help get those chicks off to a better start are:

1. Do not put chicks in the brooder house until they are old enough to eat, which is usually about 36 hours after they hatch. But don't wait until chicks are weak from hunger before feeding them.
2. Plenty of feed and water, preferably warm water, should be available to the chicks as soon as they are placed in the brooder.
3. Do not let feed or water containers become empty at any time.
4. Shallow wooden troughs made of lath make suitable mash containers until chicks are about 10 days old. Larger feeders should be added as soon as chicks are old enough for them.
5. Maintain a hover temperature of 95 degrees F. to 100 degrees F. on a level with the chicks' backs for the first week, and lower the temperature 5 degrees each week thereafter.
6. Provide plenty of ventilation without drafts.

Following these few simple precautions helps insure a healthy, profitable layer next fall.

Need Straight Legs

The strength of a dairy cow's legs is a factor which influences the length of her useful life in a herd, says F. E. Eldridge, Kansas State College dairy husbandryman.

Recent experimental studies with dairy cattle have shown that straightness of legs is highly hereditary. The dairy cattle breeder can use this tested fact by selecting his next herd sires, or replacement breeding stock, on the basis of strong, straight legs, in addition to other desirable dairy characteristics.

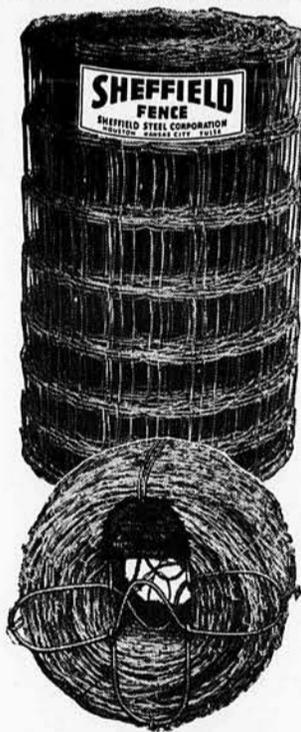


"By Next Fall I'm Going to Have Every Corn Field Fenced Tight with Woven Wire!"

You hear talk like this almost everywhere. In the corn country, farmers with sore backs from picking up corn dropped to the ground by a combination of corn borer and high winds, are determined to let the livestock harvest the millions of bushels the borers and winds put out of reach of the corn pickers.

As a matter of fact, even where the corn doesn't go down—even where there is no corn in the fields—farmers are fully convinced that woven wire fence makes sense because greater use of pasture rotation is more and more becoming a prime factor in good farm management.

According to a leading farm publication, the demand for woven wire fence will continue to crowd production as farmers carry out their fencing plans in 1950. So, if you are among the great majority of farmers who want the biggest value your fence dollar will buy—see your neighborhood Sheffield Fence dealer today. Tell him your requirements so that he can be sure of providing you with the fence that is constructed with longer hinge joints on line wires, particularly on the top and bottom strands, to give greater strength where strain is greatest,



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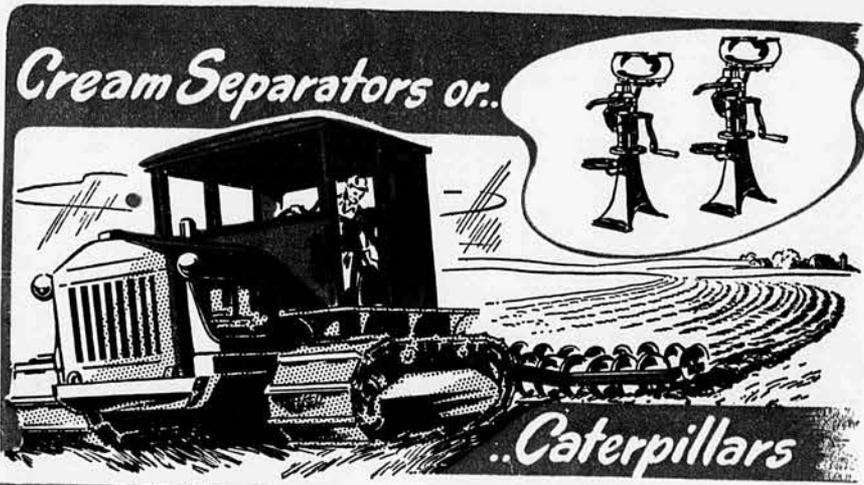
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For Poultry Raisers

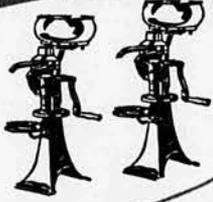
If in need of poultry helps, the 2 bulletins listed here published by Kansas State College Extension Division, will be found very useful:

- Bulletin No. 326—Poultry Diseases.
- Circular No. 244—Poultry Management.

For a copy of one or both of these publications, please address Bulletin Service, Kansas Farmer, Topeka.



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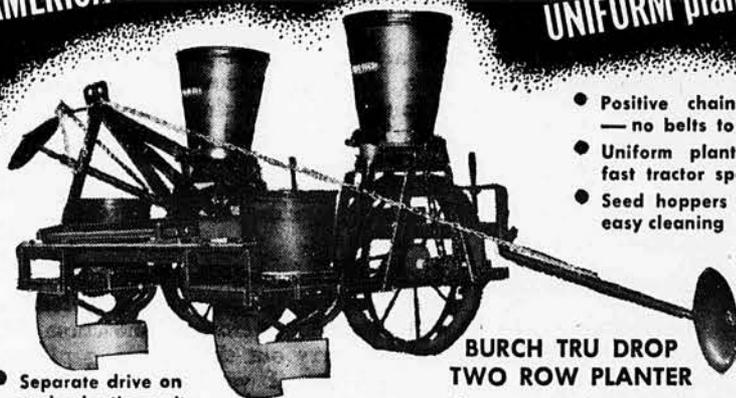
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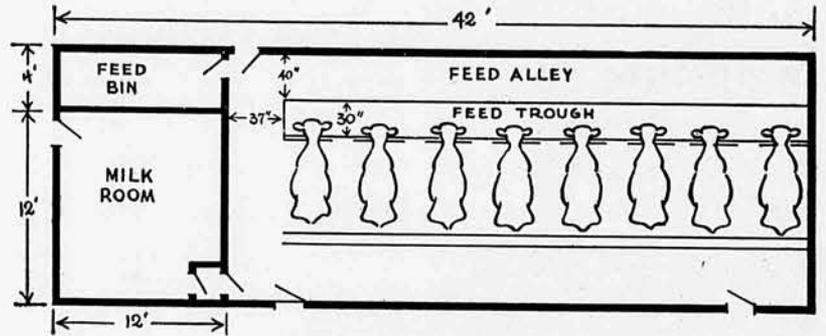
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What a Young Man Can Do Farming for Himself



Note in this drawing of the Ottensmeir milk parlor that there is a straight path from feed room along trough, and that milk room is closest to rear of cows. Feed trough should be 3 inches more in depth to keep cows from tossing grain over into feed alley.

HAROLD OTTENSMEIR, of Jefferson county, is a good example of how a young farmer can make the most of his opportunities by taking full advantage of the services available to returning servicemen.

This young farmer has courage, a willingness to work, and a willingness to seek and accept advice from men in position to know the answers. Here is the story of his achievements in 3 short years.

During the war Harold was in the 8th Air Force and served in the European theater of operations. He was released in 1945 and lost no time beginning his farm career. His first move was to rent some land and farm it with equipment borrowed from his father.

In 1946 he sought advice from the Farm and Home Administration, at Oskaloosa, and arranged for a loan to purchase his present 200-acre farm. However, he could not get possession of the farm until March, 1947.

The only money Harold had when he got out of service was \$800. He sank all he had into some beef cows with calves. These he purchased for \$50 and \$60 each at a sale in Topeka and kept them 2 years. From this original purchase he sold 2 crops of calves, getting \$80 and \$85 apiece, then sold off the original cows for \$140 each.

With this money and another \$2,500 of borrowed capital, Harold purchased 13 purebred dairy cows, a registered bull and all the equipment necessary to operate a milk route in Oskaloosa. This herd of milk cows has been his big money-maker since, netting him about \$300 a month.

Built Grade-A Barn

When Harold got possession of his farm it was not equipped for production of grade-A milk. He again borrowed—this time \$1,000 from the bank—and built a modern grade-A milk barn. It is 18 by 42 feet, has 8 stanchions in a single row, a 12- by 12-foot milk room and a 4- by 12-foot feed room. He did all the work except for 3-foot concrete walls and thereby cut the cost down to the \$1,000 he had borrowed. Has this improvement paid?

Here are the figures. Payments on the loan amount to \$32 a month. The difference in price between grade-A and grade-C milk is about \$60 a month. Had Harold given up his grade-A production and gone over to grade-C when he moved onto his present farm he would have lost \$60 a month income by using the buildings available. Even with the expense of the new barn, he is netting \$28 a month above his payments. The loan will soon be paid off

and his net pay will take another jump. This difference in net profits will be increased as his program develops. Harold is not satisfied with his present cows. Last fall he went to Wisconsin to buy a bunch of good registered Holstein heifers, and a better bull than he had. He wants to get his herd up to 30 cows in milk. He already has applied for membership in a cow-testing association.

A soil-conservation plan for the farm was started last year. Harold's farm has 100 acres of pasture and 100 acres of cropland. First call under the soil-conservation plan is for terraces and a stock-water pond. While those are being provided Harold will be putting in a temporary pasture program. He plans 6 acres of Sudan, and 10 acres of brome-alfalfa. He seeded red clover with his wheat last year and is planning a sweet clover rotation to help build up his soil.

Doing a Remodeling Job

Harold was married a year ago last August, and he and his wife have been giving the old farmhouse a thoro remodeling. Electricity was put in last winter. A water system has been purchased and will be installed this spring. Harold also will have water piped to the milkhouse.

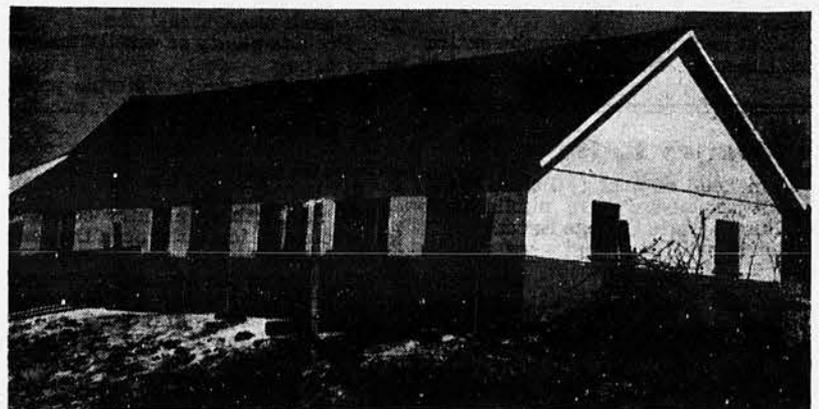
A former small porch has been enclosed and a bathroom installed. When the water system is in, the kitchen will be completely modernized. All of the house has been replastered and redecorated and hardwood floors are purchased ready for installation. The kitchen floor will be covered with in-laid linoleum.

Several old barns on the place will be torn down and the lumber used to rebuild more modern-type structures that will fit into the livestock program.

During his first 3 years on the farm, Harold accumulated 15 head of milk cows, 39 head of other cattle and calves, and 15 feeder pigs. For his second major livestock project he wants to get into the purebred-hog business. He will get his foundation stock from the famous Joe O'Bryan Hampshire Ranch, at Hiattville. The \$2,500 which Harold borrowed for his livestock purchases was to be paid back to FHA over a 5-year period. Harold already has paid off the entire loan and has all his cattle clear now. He also is \$500 ahead on payments on his 100 per cent FHA farm-purchase loan.

Now, let's review Harold's financial progress. Remember, he started with \$800 in 1945. By the end of 1946, his net worth was \$2,060. By the end of

(Continued on Page 19)



Here is a view of the new Harold Ottensmeir grade-A milking parlor. It has a concrete wall up 3 feet, then frame sides and an aluminum roof. See drawing for details of floor arrangement.

Wins Two World Championships On Hampshire Barrow

Willard Guckian's Barrow, Lucky, "Tops" At International Exposition



Willard Guckian and his champion barrow, Lucky. Willard is another of many Wheaties-eating farm and sports champions. Are YOU getting plenty of Wheaties?

CAMDEN, OHIO—Willard Guckian's Hampshire barrow, Lucky, lived up to its name at the 1949 International Live Stock Exposition. Lucky earned two Championships for its owner; was also Reserve Champion Barrow over all breeds exhibited at show!

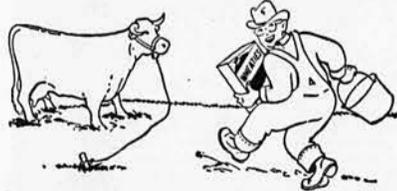
Showing hogs is Willard's favorite hobby. But he doesn't play favorites when it comes to making his 212 acres pay profits. Besides hogs, he's raised hybrid seed corn since 1936; is now building a Milking Shorthorn herd. Their milk goes fine on Willard's Wheaties! Got his first taste of these delicious whole wheat flakes in 1925. Now he eats Wheaties often at breakfast—occasionally at bedtime too!



"So! NOW I know where my Wheaties have been disappearing!"

Since 1884, Willard's family owned the land he now farms. It's a family habit! Another Guckian family habit: eating Wheaties. Three generations in family are Wheaties eaters. Same way in many families. Wheaties are America's favorite whole wheat flakes. Second-helping good at any time of day!

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1947 it had jumped to \$7,097 and by the end of 1948 to \$12,560.

Here is a breakdown of his cash income for the last 2 years—1947 and 1948:

1947—Dairy products, \$2,064.92; other cattle, \$631; wheat, \$639.85; corn, \$1,446.06; oats, \$164.05.

1948—Dairy products, \$3,441.34; cattle, \$998.76; corn, \$965.95; wheat, \$1,063.59.

Rising markets, of course, have played an important part in Harold's rapid success on the farm. However, he has done several things that are important. He sought and followed good advice on borrowing for his farm and livestock purchases; he switched early to the livestock project offering

the highest returns and the least gamble, and he has consistently sought advice from his county Extension office.

Russell Klotz, former Jefferson county agent, explains it this way: "Harold came into the office frequently to ask one or 2 questions about some move he planned to make. He never stayed long but when he found the answer he immediately put them to use. Many farmers waste a lifetime experimenting instead of using the results that already have been obtained at Kansas State College. Harold never makes that mistake. He fully uses the services of the FHA, this office, and the SCS. By doing so he can take proved practices and put them to work with confidence that they will be right."

If You Burn Pastures Do It Late in Spring

IF YOU must burn pastures, burn them late. That advice comes from Kansas State College and is based on experiments conducted there. These experiments indicate that burning blue-stem pastures is a practice that should be reserved for years when there is a large carryover of dead grass. Short grasses in regions of lower rainfall which cure well on the ground and have high nutritive value in fall and winter should not be burned.

In many cases pasture leases carry a requirement that old grass be burned off. When plagued with these restrictions, the best time to burn is after April 20 and not later than the first week in May. And then the lower vegetation or the mulch which covers the ground should be moist at burning time to prevent injury to the crowns of the native grasses.

Pasture plots were burned annually during these experiments in late fall,

early spring, medium spring and late spring. Unburned plots were used to check the effect of time of burning.

These results were noted: Burning decreased the yield of mature vegetation regardless of the time it was done. Plots burned in late spring yielded more mature vegetation than any other time of burning. Late spring burning proved to be effective in reducing the amount and vigor of buckbrush, also.

In early June protein content was highest for the vegetation from the late spring burned plots followed by that obtained from the unburned plots. However, burned plots had lower moisture content of the soil, dried out earlier in late spring and summer and suffered more from drouth than unburned check plots. Late spring burned plots had greater moisture content during the growing season than any of the other burning treatments.

Doubles Crop Yield From Depleted Soil

LEGUME rotation and fertilizer did wonders for depleted land purchased 7 years ago by Lawrence Feltner, Coffey county. The 200-acre tract was eroding badly when he bought it. Terraces were the first improvement. Sufficient native grass was available as outlets for the terraces so he could build them the first year.

He started working with an oats-sweet clover-corn rotation, using about 150 pounds of 45 per cent superphosphate or an 8-32-0 mixture with the oats. When starting this rotation yields were low on the farm. Corn would make about 20 bushels, oats 25 and wheat 10 or 12. And it had to be a good year to do that, Mr. Feltner says. On some of the ground he is around

the second time with clover. Last year on that same ground corn made 65 bushels. He had some Cherokee oats last year that made 48 bushels an acre.

Lime, too, is important, he points out. He started to lime one field but didn't get it all limed before row directions were changed due to terraces that were built. In that way some of the field received 5 tons of lime an acre, some 3 tons and still another portion 2 tons. It made a big difference in the sweet clover stand last year. Markers were not needed to detect the various applications. Where 5 tons had been applied sweet clover grew to about 30 inches. With a 3-ton application it was about 6 inches shorter.

GRANDMA . . . By Charles Kuhn



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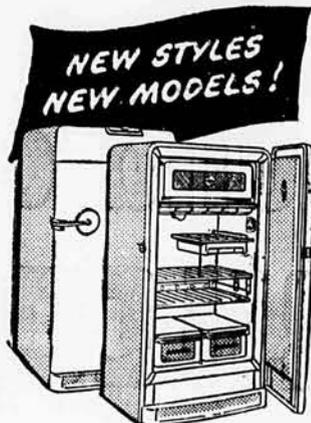
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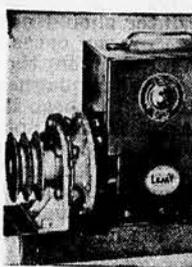
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C. F. Worman Elec. & Pibg. | STAFFORD
Peacock & Soles |
| CANEY
Pendleton Chev. Co. | GREENSBURG
Culp Home & Auto | MEDICINE LODGE
Dickey Appl. Co. | STONINGTON
Quenzer Appl. Co. |
| CAWKER CITY
Riley-Rhoades Ap. Co. | HALSTEAD
Mantel's Dept. St., Inc. | MILTONVALE
Phelps Furn. Store | SYRACUSE
Stewart Furniture Co. |
| CEDAR VALE
Williams Motor Co. | HANOVER
Schwartz Appl. Co. | MINNEAPOLIS
Horner Hardware Co. | TIMKEN
Timken Lumber Co. |
| CHANUTE
Naff & Bolze Hdw. | HARPER
Jess Hamilton | MOLINE
Boyer Tire & Appl. Co. | TRIBUNE
Western Hdw. & Sup. |
| CHAPMAN
Sanborn Lumber Co. | HAYS
The Merchandise Mart | MORGANVILLE
Will F. Taddiken | TURON
Turon Electrical Sup. |
| CHENEY
Cheney Skelgas Service, Inc. | HERINGTON
Fred Lee & Sons | MOUNDRIE
Krehbiel Hdw. & Impl. Co., Inc. | ULYSSES
Durham Electric Co. |
| CHERRYVALE
Clark's Maytag Co. | HERNDON
Reed's | MOUNT HOPE
Johnsmeyer's | VALLEY CENTER
Central Supply |
| CHEYENNE
Blankenship Hardware | HILL CITY
Quenzer Appl. & Hdw. | NASHVILLE
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Schroyer's, Inc. | WASHINGTON
Anderson Hardware |
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Jenkins Appl. Co. | WATERVILLE
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Southwestern Sales Co. | HONIE (Grinnell)
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Have you heard—?

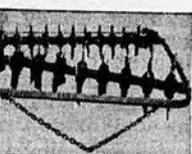
Notes on New Products of Interest to Farmers and the Folks Who Make Them

IN RECENT issues of farm publications there was a full-page ad by Minneapolis-Moline in which attention was called to the fact that M-M is a member of the group of manufacturers of power equipment who provide hydraulic implement control. And down at Kansas City at the Southwest Division office of this company, Manager Frank Langham related a few things about M-M products. For instance, their Model U line of tractors come in two divisions, one of which is engineered to use LP gas as fuel. Frank told us that this LP model was now delivering one third of the sales volume of Model U's.

Something just a little different in arc welders was brought to the attention of this publication recently. Using an airplane generator, the same as used on largeturbo-jet and bomber planes, the lightweight welder does heavy jobs in the 200-300 ampere range, according to the leaflet received. It can be mounted on a jeep, trailer or tractor, is available in models with or without power and uses V-Belt drive thruout. It is manufactured by LeJay Manufacturing Company, of Minneapolis, well-known to farmers in this part of the country.



Perhaps you are familiar with the "Clodbuster," a rotating plow harrow design that Valley Manufacturing Company, Valley, Nebr., claims makes it possible to plow, disk and harrow in one operation. The new tool, says the manufacturer, can be hooked to any 2- or 3-bottom plow and will exert a draft of not more than 240 pounds. It is said to work well in any soil or crop condition and can be turned over and used for more packing action.



A new hand duster that weighs less than 10 pounds and straps to the operator's chest has been announced by the Niagara Chemical Division of Food Machinery and Chemical Corporation, Middleport, N. Y. The device has a swivel mounting for the nozzle so that it can be turned backward or forward, up or down. It is powered by a hand crank and can be used on garden crops and fruit trees up to medium size. It is called Cyclo-Junior.

A Kansas Farmer man was visiting with Joe Searl, manager of the Kansas City branch of the Oliver Corporation, a few days ago. Joe was enthusiastic about a new tractor seat which has become standard equipment on the Oliver line. It is a new design, no steel springs, no shock absorbers, but cushioning by large, cylindrical rubber torsion units. As Joe pointed out, the principal advantage of this system is its capacity to level out the rebound of a bump. Action of the seat is adjustable according to the weight of the operator. Altho there was no opportunity to test the seat under working conditions, a pilot test of sitting conditions was convincing.

For that matter, Ford tractor owners have an improved seat that is made by Knoedler Manufacturers, Inc., of Streator, Ill. This new model is said to permit the operator to instantly shift his seat level while the tractor is on a side slant, and it provides riding qualities much improved over the original Flow-Ting seat marketed by this company.

Horn Manufacturing Company, up at Fort Dodge, Iowa, has announced that they are about to produce a heavy-

duty, 2-way hydraulic cylinder for installation on your tractor. The unit, according to the Horn people, can be used with tractor-drawn equipment for depth control of plows, seeders, cultivators and other equipment and also for tilt control on loader buckets, dump rakes and scoops. The cylinder has adjustable stops to meet the demands of various tools.

Another Horn announcement introduces a new attachment for the well-known line of Horn - Draulic loaders. This is the Horn-Draulic Angle Dozer blade, designed for such duties as snow clearing, scraping, grading, landscaping, terracing, leveling, filling, cleaning, etc. The blade is 18 by 84 inches and made of quarter inch steel.



Armco Steel Corporation is suggesting that it has a new pamphlet titled "Let's Save All Our Crops." The contents tell how money can be made by crop drying and how various crops can be dried in both steel and wood buildings. There is discussion of methods, basic requirements in drying various grains and hay, time and temperature and other information. A copy can be obtained from the company's office in Middletown, Ohio, or from this publication.

On the subject of folders, anyone who has a wireworm problem may get some help from a leaflet on seed treating that has been made available by California Spray-Chemical Corporation. Their product, "Lindane," is said to provide control and the folder presents a discussion of timing, amounts and application. The company's home office is in Richmond, Calif.

"How to Make Money From Farm Woodlands" is the title of a new 16-page manual that has been prepared by McCulloch Motors Corp., manufacturers of chain saws. The manual gives

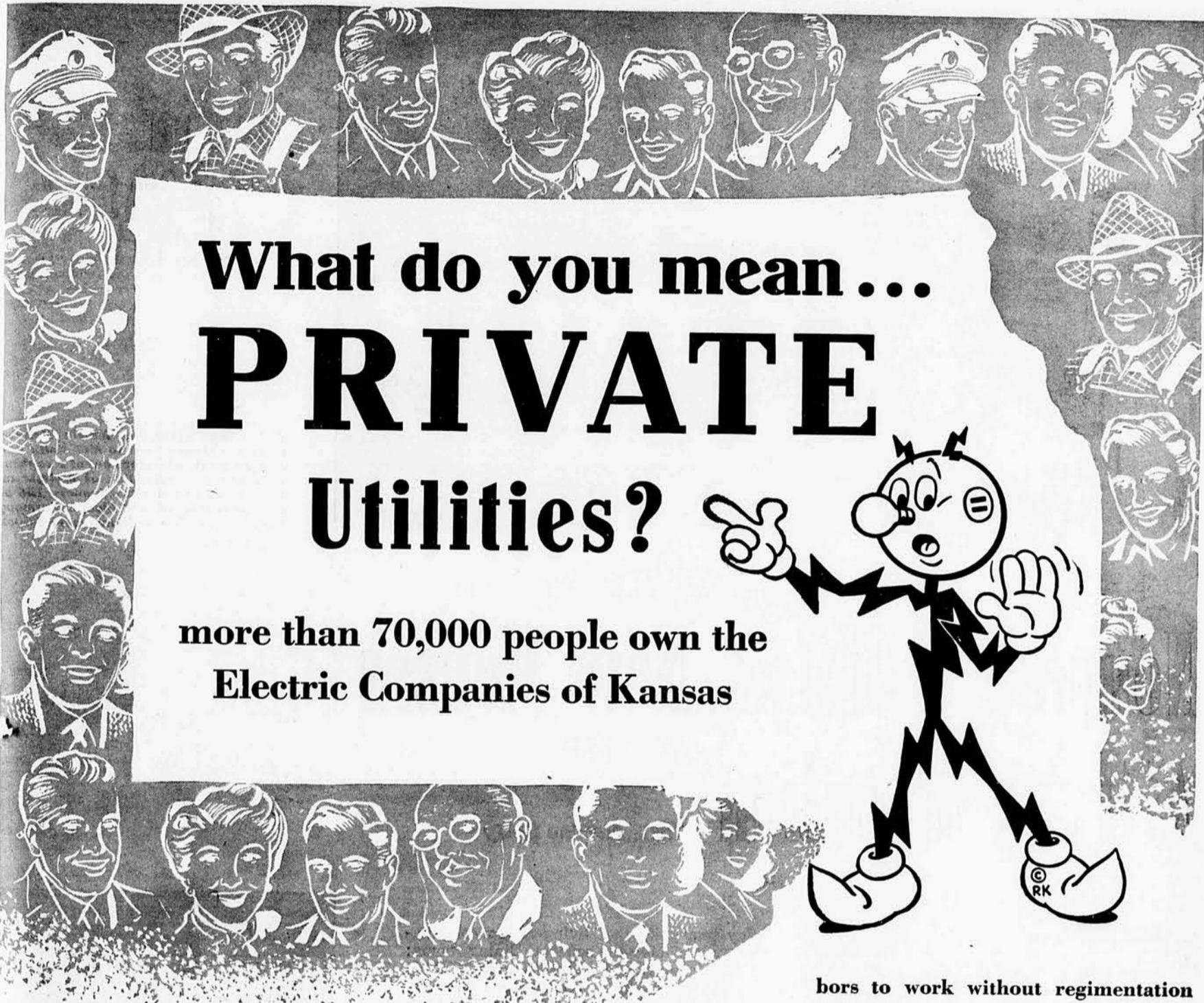


market tips, estimating tables, methods of felling trees, and other valuable aids to help deliver a profit from timber. You can obtain a copy from McCulloch Motors Corp., Los Angeles 45, Calif., or from this department.

There is something new under the sun. The recent announcement by Allis-Chalmers of their 6-row planter and cultivator with rear engine power is about two jumps ahead of the motor-car makers. It's the Model G.

Profit in Large Litters

According to some authorities, says R. B. Cathcart, animal husbandry, Kansas State College, twice as much profit is made from saving 8 pigs per litter as with 6 pigs per litter. An electric brooder in each farrowing pen will help save larger litters. The electric brooder is simple and inexpensive to construct. At one experiment station only about half as many pigs were lost where the brooders were used in comparison with no brooders.



What do you mean... PRIVATE Utilities?

more than 70,000 people own the
Electric Companies of Kansas

MEEETING a typical stockholder of the Electric Companies of Kansas is like getting acquainted with a cross section of your friends and neighbors. For you'll find stockholders in every town and on thousands of Kansas farms.

Most of them are individuals . . . farmers, housewives, retired people . . . just folks of moderate means from

all walks of life, who are putting the Free Enterprise system to work. They have invested a part of their savings in an essential industry and they hope to receive a fair return on their investment.

Only under the American system can we save, invest and profit. And only under the American system are our rights and the rights of our neigh-

bors to work without regimentation protected.

The stockholders of the Electric Companies of Kansas are the people you meet everyday. They believe in and are investing in the future of America and of Kansas under our Free Enterprise system.

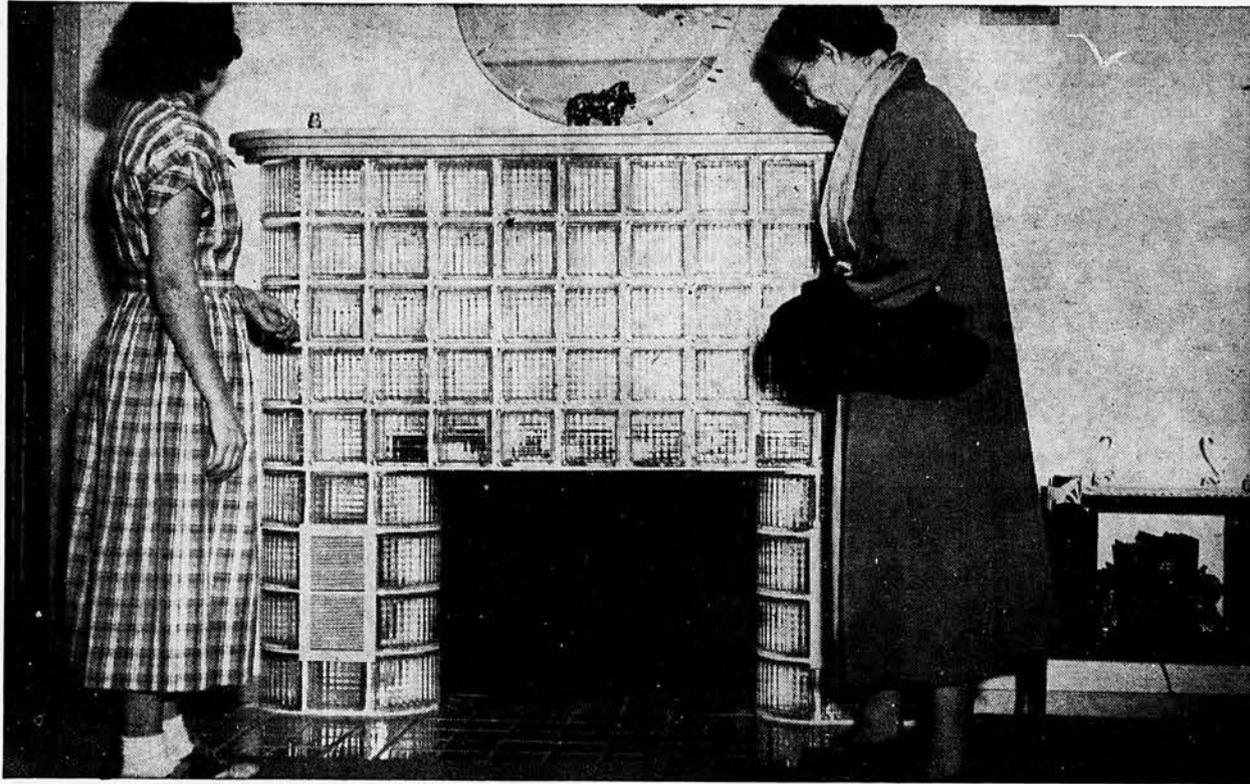


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Does the Job Better!**

Central Kansas Power Company
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This Message
from the
Pioneers of
Rural
Electrification



GLASS WAS USED: Mrs. Melvin Wenger, on the left, points out to Mrs. Keith Van Horn that cold air comes out of a register at either side. Reflection of firelight on glass gives added attractiveness. Tile at base of fireplace is soft blue, in harmony with deeper blue of living-room carpet.

Nemaha County's New Houses Attract Attention

By Eula Mae Kelly

IT SET us to dreaming and ought to set us to doing." This comment from one of the 150 home demonstration unit women who followed the Nemaha county housing tour, voiced the satisfaction of seeing what neighbors are doing in the way of home improvement.

The 10 stops, arranged by Ruth Bishop, home demonstration agent and a committee made up of Mrs. Keith Van Horn, Sabetha, Mrs. Joe Olberding, Seneca, and Mrs. Earl Reed, Sabetha, gave the followers plenty of variety. Old and new, town and country, completed and in-the-process . . . each of the homes provided its flow of ideas to the crowd that jostled thru it.

Predominant impressions gained from the

WORKED OUT DINING AREA (Below): Mrs. Melvin Wenger worked out this attractive dining area. Corner windows overlook a pretty stretch of country and well-chosen draperies add to interest. A matching buffet flanks the table on the left.

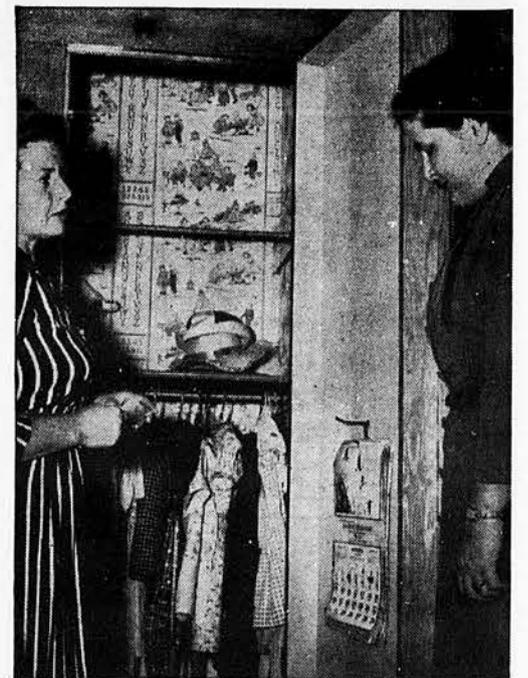
all-day tour were that living-dining combinations are replacing the separate dining rooms; that wide variety of construction materials is going into present-day houses; and that the kitchen usually is the best-planned room in the house.

The Nemaha cavalcade of cars stopped first to look over a grade-A dairy barn at the Leo Olberding farm, 3½ miles west of Seneca. Women seemed as interested as the men in plying Mr. Olberding with questions as to how he razed an old schoolhouse to help construct this spotless 16-cow dairy barn.

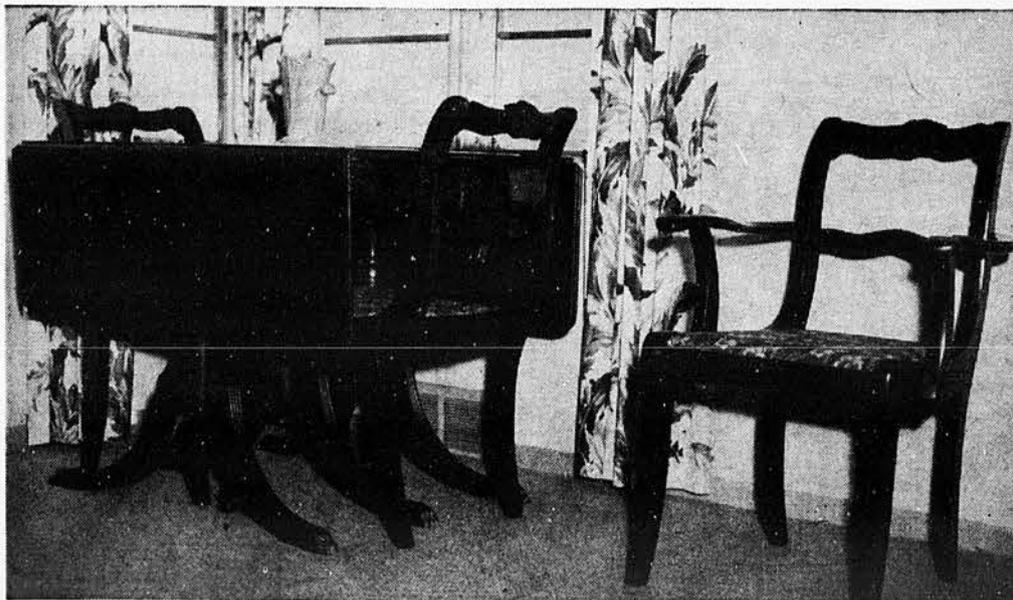
Next stop was at the Joe Olberding farmstead, one mile east, where visitors saw a new 7-room home under construction. Special attention was called to the waterproofing of the basement and outside of the house.

"We have always contended with water at this place," Mrs. Olberding pointed out, "and I wanted to make

[Continued on Page 23]



DISCUSS CLOSET (Above): Mrs. L. G. Walton at left of the Albany home demonstration unit, and Ruth Bishop, home agent, discuss a bedroom closet. Recessed closet door will accommodate formals when small Betty gets to that age. Hook on door makes it possible for her to hang clothes correctly before they go into the closet.



sure no water was going to get into this house. We didn't find any termites in the old house we tore down but we did come upon 2 hives of bees and have several tubs of honey for our trouble!

"We planned 2 bedrooms upstairs, one down, a living room, breakfast room and kitchen, utility room and bath. I seldom have more than 8 men to feed so I'll use the utility room for that . . . the reason it's as big as it is."

Next was the Ben Holthaus remodeled house. Major changes have included a 7-foot extension of the south side of the house, the addition of 2 bathrooms and a utility room, a completely remodeled kitchen, enlargement of the second floor with dormer windows to make 3 bedrooms. The outside is covered with asbestos shingles. New woodwork and insulation were other additions.

U-Shaped Kitchen

Two eye-catching spots in the Holt-haus home were the U-shaped kitchen with its tailored cabinets, and the yellow and blue compartment bath just off the downstairs bedroom. A half-bath upstairs is located at the top of a new staircase.

"We made a utility room and our present kitchen out of the former kitchen," Mrs. Holthaus explained. "The old kitchen was a dark, dreary place with only 2 windows."

An interesting 5-level house afforded the fourth stop of the tour. This was the Archie Ward stucco home located in Seneca. Built 1 1/2 stories high, there is a garage, utility room, and basement on the first level, a playroom on the next, living room, kitchen and dining space on the third level, master bedroom and second bedroom on the fourth level, and finally a child's bedroom and attic storage on the fifth.

"It's our own plan," said Mr. Ward, who is cashier of the Seneca bank, but who was on hand in his work clothing, "I guess it all started when I was sitting it out in Okinawa. We have 2 children, Alan, 11, and Jan, 2. We think we will get a lot of living out of this house."

Here the visitors were able to see insulating materials in the walls and the possibilities of full-length closets between walls. Fireplaces are favorites with the Wards, and their new home has 2, one in the living room and one in the recreation room.

Made a Kitchen

Many more cars joined the procession at the Floyd Althaus farm home near Oneida. This was primarily a "kitchen" stop, where Mrs. Althaus proudly showed results of a full-scale remodeling job that made unusually good use of available space.

"Before we rebuilt, it was like living in 2 separate houses and just as much trouble," said Mrs. Althaus. "The kitchen was built out to the north with a passageway to the rest of the house. Then, too, the back porch was open, and I didn't like that."

They took the old kitchen off its foundation and built on a 15- by 12-foot addition and enclosed the back porch. A partition was taken out to enlarge a bedroom and add a bathroom. The new kitchen is red, green, and white, has abundant cabinet space and modern equipment. "It sure is an improvement over that old kitchen," remarked Mrs. Althaus. "Why, short as I am, I had to climb a stepladder every time I wanted something out of those old cabinets."

At the Joe Locker home, 4 miles east

of Oneida, the original 4-room square house had been given a complete turn and completely remodeled. The Lockers needed more space first of all. The principal changes were the addition of 2 bedrooms and a hall. The back porch was enclosed for a play room and storage place for outdoor clothes. Linoleum covered the floor and the wallpaper was shellacked to give a durable finish, a bench along one wall opened to give storage space for over-shoes and play equipment.

The Lockers have an electric dishwasher, a recessed refrigerator and, in the basement, a water softener and electric water heater. Oil paint over insulated walls was used as a substitute for plaster. All upstairs closets were generous in size of the walk-in type.

Provision for Double Closets

An H-shaped plan provided the interest at the ranch-type home of the L. W. Norries, 1 1/4 miles southwest of Sabetha. There was a patio and a fireplace at the back of the house. In the master bedroom, provision was made for double closets. One end of the basement is a recreation room with a wood-burning fireplace as the center. The other end is enclosed as a fruit cellar.

During the building of the house the family lived in an apartment over the garage which is to be occupied by Mrs. Norrie's mother. With so much interest in providing quarters for farm help, many visitors went thru the garage apartment in search of ideas.

The next stop was at the brick home of the Joe Bockenstettes in Sabetha. Completed in 1948, it is now landscaped. The living room with its chartreuse-green-rose color plan was flooded with light from a picture window. Draperies hung from cornice boards covered with the same floral design. Woodwork was painted the same soft green as the walls.

Sliding Door to Storage

The closet arrangement pleased the crowd the most. A well-planned storage wall had sliding doors and a place for every conceivable piece of masculine attire. A direct clothes chute to the basement opened into this room.

The L. C. Walton home was next on the tour. The reinforced concrete house has a penthouse effect for a second story with a railing around for dancing and sports. A noteworthy feature was a built-in-the-wall light for both the bathroom and hallway. Another was the built-in locker and electric oven in the kitchen and the ridge wood wall in the living room. Mr. Walton explained that the house was heated by a combination of radiant and solar heat. He considers the house fire, lightning and tornado proof.

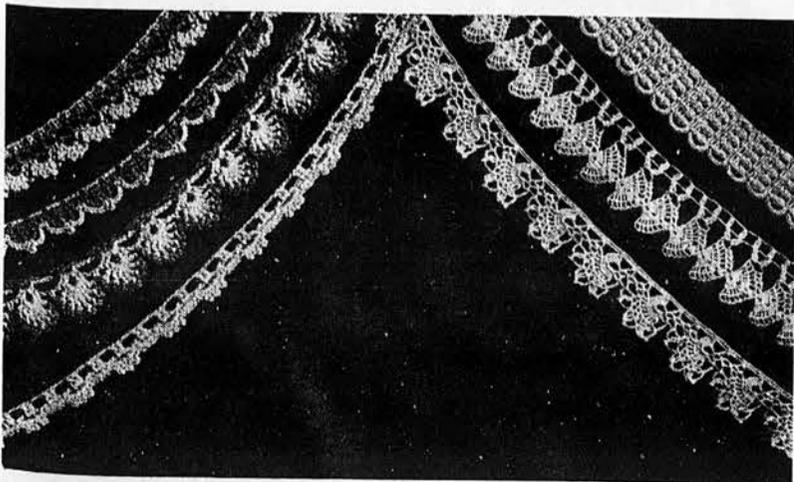
A Glass Fireplace

The final stop was at the Melvin Wenger home, 1/4 mile south of Sabetha, built of hydite blocks. Inside, the 2 features that claimed attention were the Pittsburgh glass fireplace and picture window that framed a stretch of countryside. Mrs. Wenger's kitchen was a triumph in color and efficiency. A grayed-green linoleum combined well with yellow counter tops, natural woodwork and green and white walls.

This new home has an insulating plaster with expanded mica as the aggregate. Two swings hang in the basement for the children.

All in all, the folks who attended the tour were so enthusiastic there was talk of another tour later.

Seven Crocheted Edgings



These will give the right finishing touches to your linens. Send 5 cents for direction sheet C to Farm Service Editor, Missouri Ruralist, Fayette, Mo.



Your best buy in coffee is the one that everyone enjoys most. Rich, satisfying Hills Bros. Coffee is a blend of the finest coffees grown. "Controlled Roasting," an exclusive Hills Bros. process, roasts the blend a little at a time—continuously—for uniform flavor-perfection. It's vacuum-packed for freshness.



Everywhere you go, you'll find people saying "Hills Bros. Coffee."



MARY MARGARET McBRIDE

noted cooking authority, says:

"Use the Best to make the Best"

Nationally recognized food expert and America's No. 1 Lady of the Air, Mary Margaret McBride believes that it takes more than practice to be a prize-winning cook. "You've got to be extra careful about what ingredients you use," she says. "When you bake at home, for instance, use a good, lively yeast if you're aiming for good results. I just know you'll like Fleischmann's. It's a yeast with lots of 'get up and go.'"

No wonder prize-winning cooks prefer Fleischmann's Yeast. Always fast rising, always active—you can count on it every single time. Ask your grocer for Fleischmann's Yeast today.

HELP YOUR UNCLE SAM WITH THE 1950 CENSUS

Fill out the farm questionnaire now in your hands at once and have it ready for the Census Enumerator.

Save His Time and Yours Too!

IT'S EASY WORK NOW!

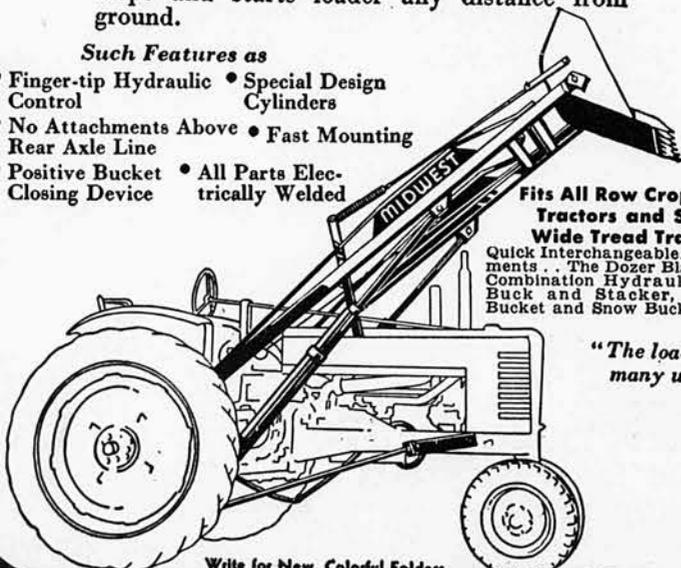
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Designed and built with Fewer Moving Parts

Easy to attach or detach. Hydraulic control stops and starts loader any distance from ground.

Such Features as

- Finger-tip Hydraulic Control
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Fits All Row Crop Type Tractors and Some Wide Tread Tractors
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Sew To Save



9339
SIZES
2-10

4945
SIZES
12-20

9339—For the toddler. A detachable collar; bloomers, bonnet pattern included. Sizes 2 to 10. Size 6 requires 1 1/8 yards; 3/8 yard contrast and 3/4 yard of 35-inch material.

4945—New fly-away jacket and easy construction. Sizes 12 to 20. Size 16 requires 1 7/8 yards of 54-inch material.

9373—This soft-looking frock is slenderizing and easy to make. Sizes 34 to 48. Size 36 requires 3 3/8 yards and 7/8 yard of contrasting 39-inch material.

Easy-Make
Shortie Coat



9373
SIZES
34-48

4963
SIZES
34-50

4963—The favorite shirtfrock to go anywhere. Has long lines, sharp collar and pocket flaps. Sleeves are in one with yokes for easy sewing. Sizes 34 to 50. Size 36 requires 4 7/8 yards of 35-inch material.

9362—New plunging, scalloped neckline with comfortable back closing. Just 2 main pattern parts. Sizes 12 to 20. Size 16 requires 3 1/2 yards and 1/2 yard of 35-inch contrasting material.

4554—A cleverly designed casual for warm weather. The shoulder flange is a smart new detail. Sizes 12 to 20. Size 16 requires 4 1/4 yards of 35-inch material.



9362
SIZES
12-20

4554
SIZES
12-20

Send 25 cents for each pattern to the Fashion Editor, Kansas Farmer, Topeka.

Books On Review

Marmee: The Mother of Little Women

To those of you who read and loved "Little Women," by Louisa May Alcott, we recommend this book about Marmee, the mother of Louisa May. The author, Sandford Salyer, made an extensive study of the Alcott collection of manuscript material in The Houghton Library at Harvard, following a lifelong interest in the family. In this new book he presents an authentic portrait of a remarkable woman, Abba May Alcott.

Bronson Alcott, her husband, was in himself a remarkable and unusual man, a philosopher and educator ahead of his times who, for the early part of his life, was misunderstood and unappreciated. Mr. and Mrs. Alcott reared 4 daughters, among them Louisa May, the most famous and well-known, who wrote many other books in her day and won not only fame but fortune as well in her lifetime. The book tells the story of their mother from her birth to her death, a remarkable woman who was well-educated, cultured, but who was forced to work hard in the early years of her marriage to rear her family. She developed an unusual and enviable home life for her family in spite of hardships and trials which would have defeated and discouraged a weaker character. She was the victim of philosophies promoted before their general acceptance.

Marmee, The Mother of Little Women is published by the University of Oklahoma Press at Norman, Oklahoma. Price \$3.

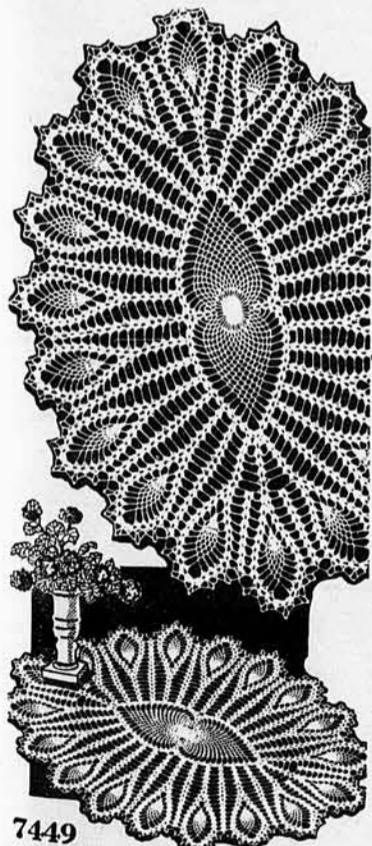
Thirteen Who Fled

This is the first book published since the Bolshevik revolution of November, 1917, in which a representative cross-section of the Russian people tell their own story. Here the Russians speak for themselves.

The 13 who fled their country are not Soviet diplomats who have deserted the service. They are a sampling of the Russian people . . . a teacher, a worker, a Red army officer, a housewife, a student, an engineer, a medium-rank government official. To read about them is to know what life in Russia is really like.

The stories were collected and edited by Louis Fischer, noted author who

Favorite Doilies



7449

Your favorite crochet makes a pair of oval beauties. Large doily, 24 inches in No. 30 cotton thread is right for a between-meal centerpiece. Complete directions for Pattern 7449.

Send 20 cents for pattern to the Needlework Editor, Kansas Farmer, Topeka.

lived in Russia 14 years. He interviewed the 13 Russians in Germany where they had escaped. The 13 were picked out of several hundred Russian political exiles.

"Thirteen Who Fled" is published by Harper and Brothers, New York City. Cost \$3.00. Order thru your local bookstore or direct from the publisher. Your own public library may have the book on its shelves.

Parties for Boys and Girls

While searching for books for Sunday School groups and 4-H Clubs, we found at last what we were looking for, "A Treasury of Parties for Boys and Girls," by Judith and Caroline Horowitz.

It is crammed with drawings, pictures and detailed directions for party-giving. It begins with a birthday party

and ends with a valentine party and includes almost every holiday the year round, with some extras like a pirate party and a picnic party thrown in. It may be ordered thru a book store or by writing to the publisher, Hart Publishing Company, 101 West 55th St., New York 19, N. Y. Cost \$1.50.

Make It and Ride It

Here is a small book for the young boy. It gives complete directions for making a variety of practical things which boys will use and enjoy. Bike trailers, wagons, jeeps and scooters are a few of them. There is a section on racers of different types, including one model which can be entered in the annual Soap Box Derby.

For those interested in making gifts for younger children, doll carriages, hobby horses, kiddie cars and similar playthings are included. Inexpensive materials such as fruit crates are needed and any home or school workshop will provide the necessary tools.

This is a book for everyone who likes to make things. "Make It and

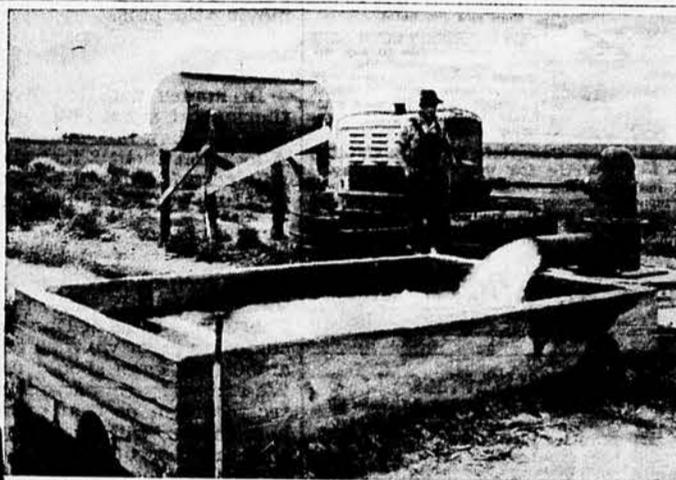
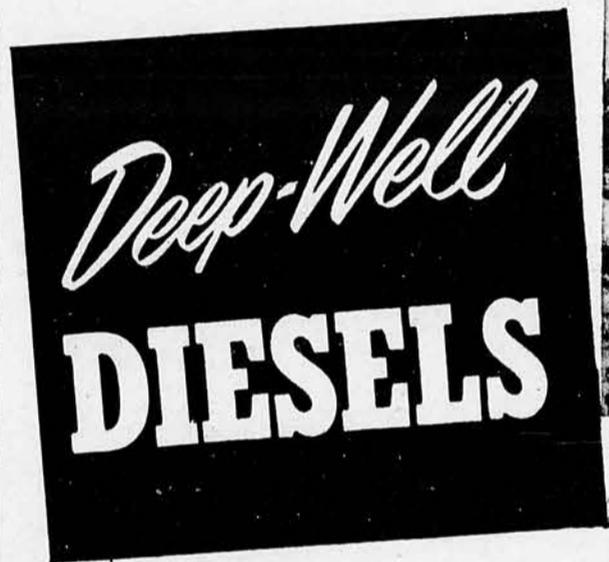
Ride It," by C. J. Maginley is published by Harcourt, Brace and Company, New York City. Cost \$2.

Air the Pillows

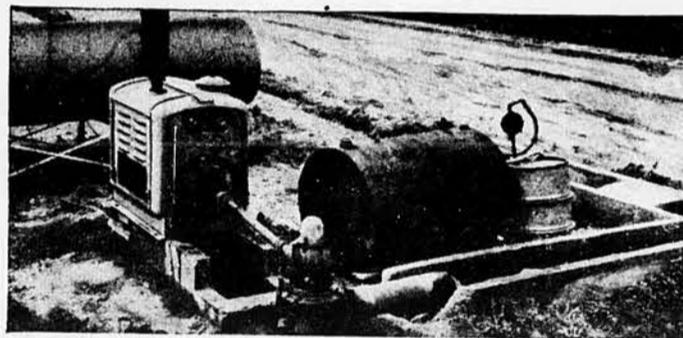
Pillows should be aired once a month under ordinary use. Just put them near an open window. Even well-protected pillows get dusty, so treat them to a day on the line every few months. Hang them by 2 corners in the shade.

Safety Play

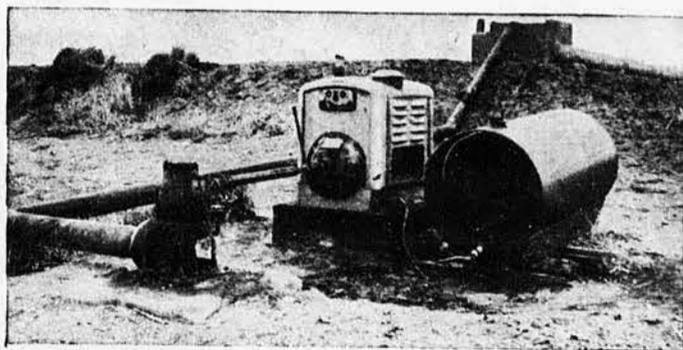
In the interest of farm safety we have the play, "The Strong Soul," a one-act comedy. It has parts for 6 characters, 3 male, 3 female and takes about 20 minutes to present. The stage setting is simple. Seven copies of the play if needed for all characters, may be obtained by writing to Entertainment Editor, Kansas Farmer, Topeka. Price 10c for 7 copies, or 4c for 1 copy.



6-cylinder GM Series 71 Diesel pumps 1500 gallons per minute from 200-ft. well, with 170-ft. lift, on John Fisher's farm near Petersburg, Texas. Owner reports "two years' operation without a minute's trouble."



3-cylinder GM Series 71 Diesel irrigates 180 acres of wheat for R. C. Chaddick, Plainview, Texas. Owner reports "30% higher production—uses only 2 gallons of Diesel fuel to every 4 to 5 gallons of gasoline with former engines."



3-cylinder GM Series 71 Diesel pumping 1400 GPM from 143-ft. well of B. V. Conrady, Marienthal, Kansas—lifting 8 ft. to elevated ditch. Owner reports "the engine starts right off when we need it—hasn't even needed tuning since we bought it in February, 1948."

FARMERS with deep-well irrigation problems want engines that are as tough as a mule but require even less attention. That's what they get in General Motors Diesels. They want the most economical engine, and the GM Diesel gives them lower costs on fuel and maintenance.

Because they are 2-cycle, these engines power the pump with every downstroke of the piston. That way you get "two-engine power" from one engine—big-engine performance from a compact, portable setup.

These are just a few of the extra advantages GM Diesel power brings to farm users. For complete details, see your nearest GM Diesel dealer or drop us a line.

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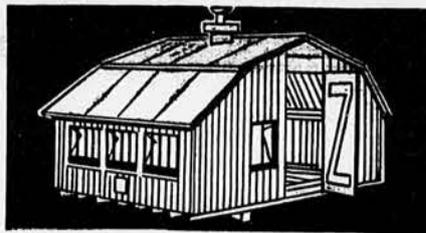
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To Block Crochet

The finishing touch in crochet is blocking. A lacy doily of cotton must be stretched as much as possible by pinning it on a padded surface. Then press using a damp pressing cloth, lift the iron from place to place rather than push it. Remove the cloth and allow the piece to dry completely before removing the pins.

Learn to Live

We must learn to live with new anxieties, new troubles, if we are to keep well and succeed in life.—
Mrs. Lydia A. Lynde.

Dip in Starch

Crocheted pieces that need starching are dipped in a cold starch solution and then stretched and pinned to the correct size and shape. Do not press, but allow to dry completely before removing the pins.

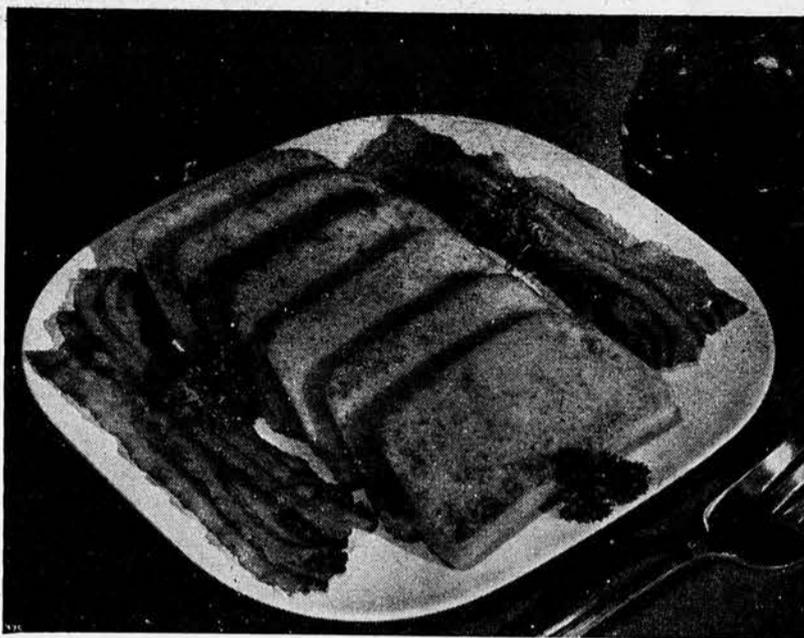
Put Thermostat Low

In homes with small children, the thermostat should be placed lower on the wall than in a household of adults. A location about 2 feet above the floor will assure a more comfortable temperature at the child's level.

Recipe Correction

The recipe for coffee cake made with the Master Mix, and printed in the February 4 issue of Kansas Farmer included an error we wish to correct. The amount of eggs should read, "1 egg." We are sorry this error crept into the recipe and hope that every interested homemaker will make the correction. A member of the Blue Ribbon 4-H Club, Crawford county, demonstrated the making of the Master Mix, winning first prize at the Topeka Free Fair and second at the Kansas State Fair at Hutchinson.

The Recipe Corner



Fried corn meal mush may be varied by the addition of cheese or ground cooked ham.

FOR good spring eating there is nothing better for either breakfast or supper than corn meal mush. This corn meal mush is made with milk and cooked over direct heat for about 10 minutes. No more long double-boiler cooking and stirring. The milk boosts the nutritive value considerably. For variety, grated cheese or ground cooked ham stirred into the mush before chilling makes a satisfying supper dish.

Corn Meal Mush

- 1 cup enriched corn meal
- 2 cups water
- 2 cups milk
- 1 teaspoon salt

Mix corn meal with 1 cup milk. Bring water and other cup of milk to boil. Add salt and the corn meal mixture. Cook until thickened, stirring occasionally. Serve with milk and sugar.

Fried Mush

Pour cooked corn meal into loaf pan. When cold, cut into 1/2-inch slices. Pan-fry slowly on lightly greased skillet until golden brown. Serve with sirup or honey and butter.

until golden brown. Serve with sirup or honey and butter.

For variations stir 2 cups grated American cheese into cooked corn meal before pouring into loaf pan. Or stir 2 cups ground cooked ham and 1 1/2 teaspoons prepared mustard into cooked corn meal before pouring into loaf pan.

Orange Candied Sweet Potatoes

- 8 medium sweet potatoes
- 1 orange, peeled and sliced
- 1 tablespoon grated orange peel
- 3/4 cup orange juice
- 1/4 teaspoon salt
- 1/2 cup brown sugar
- 2 teaspoons cornstarch
- 2 tablespoons melted butter

Boil sweet potatoes until tender. Peel and cut in halves lengthwise. Place in buttered baking dish with orange slices. Mix remaining ingredients and pour over sweet potatoes. Bake about 1 hour in slow oven (300° F.). Baste several times during baking. Honey or white sugar may be substituted for part of brown sugar. Serves 6.

About Teeth . . . Food and Care

AN OHIO STATE UNIVERSITY professor in the College of Dentistry, Dr. Hamilton B. G. Robinson, recently announced there is no reliable clear-cut, scientific evidence to prove that food has any effect on the structure of a fully-formed tooth. But he added that it had a great deal to do with the formation of teeth. Good food will keep the body strong but once the teeth are fully grown, food loses its importance.

Cleanliness of the teeth then begins to be the factor that determines the life of teeth. Small bits of food, particularly sweets, which cling to the surfaces of teeth are converted within a few minutes to an acid which attacks the tooth enamel.

but also gives gum tissues needed massage to stimulate blood circulation.

One method of toothbrushing that is never recommended by dental authorities is the "scrub brush" method in which the brush is scrubbed vigorously across the teeth and gums in any and all directions. This can cause damage to the gum tissues and fails to remove food particles from between the teeth.

As for the dentrifice to use, the American Dental Association approves either powder or paste. A good and inexpensive dentrifice can be made by mixing one third table salt and two thirds baking soda. If preferred, either salt or soda may be used alone.

Theories about older men and women not requiring much food have long been debunked. The fact is that because of lack of teeth or ill-fitting dentures the aged often are forced to acquire bad eating habits. Either they swallow food in unchewed lumps, resort to soft food diets, or just cut down the normal consumption, any one of which will hurry the aging process.

Now that science has added years to life expectancy, it is important that the time be both valuable and enjoyable.

There is no greater pain than an undelivered speech.
—By Mrs. Charles W. Sewell.

Thus it is apparent that toothbrushing should be done before this process can cause damage to the teeth. A good toothbrush should have a flat brushing surface, medium stiff bristles and 2 or 3 rows of bristles with 6 or 7 tufts in each row.

Dentists now generally recommend the roll technic in brushing teeth. This is done by placing the brush with the sides of the bristles touching the gums. The brush then is placed against the gums and is turned and swept down on the upper teeth and is swept up on the lower teeth so the ends of the bristles rub strongly on the teeth. Each area on both the tongue side and cheek side of the teeth should be given 8 such strokes before the brush is moved to the next area. The chewing surfaces should be brushed in addition.

Dental authorities agree this procedure not only cleans teeth effectively

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Now That You Have Electricity

By CHARLES HOWES

THIS is the month of traditional wind, rain and other weather changes. It's a good time to talk about something newfangled that fits these weather problems—a clothes dryer. Several manufacturers of such electrical contrivances are pointing out how it is possible to save weather worries, and the time and effort necessary to string an outside clothesline, carry out basketloads of washing and hang each piece. Or if you maintain that sunshine and wind are the only means of obtaining freshness which you require, there are electric dryers which will automatically remove excess water to any degree you wish, then the outdoors method can be used to finish whatever portion of the wash needs that treatment.

This is meeting month for the Kansas Electrification Advisors. There are 18 members of the group in the state, home economists and agricultural engineers, and the purpose of the meet is to absorb the best information available on ways to use electricity on the farm. First meeting of the group was held in Manhattan last November. This second meeting will be held in Hutchinson March 20 to 24. O. E. Mabrey, manager, Flint Hills Rural Cooperative, is chairman. Speakers include Roy Cannon and Lousian Mamer, of REA in Washington, H. S. Hinrichs, of Kansas Power and Light Company, Ralph Lipper, of Kansas State College, and Norma Edwards, of REA in Hutchinson. "Electric Cookery" will be the main topic.

A rather singular design in electric ranges has come out from Westinghouse. The new device resembles a kneehole desk, has a U-shaped chrome tube leg on the right side with the oven and storage drawer at the left. The kneehole space provides a place for a stool or other item that might be an encumbrance in a small kitchen. They call it the Rancho but it seems to fit requirements for farm and town or large and small kitchens.

By the way, another idea in the electric range field offers a choice of three units: an oven, surface cooking unit and a storage cabinet. Any of these can be purchased or all can be assembled into a range with right-hand oven, left-hand oven, or double oven. One of the oven units might be recessed in a stock cabinet or millwork, the surface cooking unit might be built into the work area of the cupboards, or the storage space might be incorporated into the kitchen plan.

Maybe a word about a solution to the refrigerator frost problem is in order. It is a Westinghouse announcement and involves a 9.6-foot household refrigerator-freezer with fully automatic defrosting. The system defrosts so rapidly that safe temperatures are maintained and ice cream, ice cubes and frozen food do not soften. Upon

returning the operation to normal use, the mechanism also disposes of the water, all with manual controls.

We wrote about the farmer in Thomas county who flies his airplane to the mailbox every morning, a matter of a mile or so. Now comes the report from Colorado of a man who has devised an electric mailbox. He rigged up a cable from a post beside the road to the front door, powered the box with an electric motor, and now he simply pushes a button to bring in the mail.

Perhaps a reminder is in order that automatic switches are available to turn on a closet or cupboard light whenever the door is opened. It also is possible to visualize that the basement door can be rigged in this way, thus affording convenient illumination in much the manner of a refrigerator light.

Perhaps it is not too early to talk about a new window-fan idea that has wide farm use. The fan serves as a ventilator and the unit can be removed and used as a circulating fan. The manufacturer says no tools are required to dismount the mechanism, and that the arrangement can be used as an exhaust fan or intake unit when in the window.

Too late for appearance last month was an announcement that the 4-H electric program in Kansas will henceforth be known as the 4-H Farm and Home Electric Program. The state 4-H Club department at Kansas State College has accepted the Westinghouse competition for another year, which consists of awards for boys and girls who have been outstanding in the study and planning of use of electricity in the home and on the farm. The awards consist of medals, all-expense trips to the National 4-H Congress in Chicago, and six \$300 college scholarships. A plaque also is awarded to outstanding county club achievement.

Some families have rather rigid requirements as to cooking breakfast eggs, so a manufacturer has come out with something electrical to prepare eggs under strict standards. An automatic egg cooker gives thermostatic control to preparation of from 1 to 6 eggs—and then, with complete consideration, there is a pin in the cooker lid to prick the eggs and prevent breaking under cooking temperatures.

From Denver, the livestock country is being informed of an electric stock waterer manufactured by Midstate Manufacturing Company. The arrangement does just about everything except air-condition the feed lot, including heating the water to constant temperatures, maintaining a constant level, and using low-wattage heaters for either 110- or 220-volt circuits. Individual specifications are built into tanks for cattle, hogs or sheep.



The advanced household equipment class from Kansas State College took a 2-day turn learning firsthand about use and care of electrical kitchen and home equipment in Kansas City early this month. Members of the class under Tessie Agan, associated professor of household economics, are shown here as they examined action of appliances at the General Electric Supply Corporation model kitchen. Left to right: Elizabeth Mayall, Pauline Richabaugh, Tessie Agan, Edna Daniel of G.E. Supply Corporation, Frances Eubanks, Agnes Bushong, Catherine Moreland, Eleanor Anderson, Ethyl R. Grady. All are from Manhattan except Mrs. Daniel.

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THE new Hoppes positive Feed Fertilizer attachment distributes any type commercial fertilizer in accurate regulated amounts—50 to 500 lbs. per acre. The Hoppes attachment is easily installed on any standard grain drill, distributing fertilizer at the same time seed is planted, placing fertilizer in furrow for maximum benefit and increased crop yields.

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For Better Tomatoes

By WILLIAM G. AMSTEIN, Kansas State College

QUESTIONS on tomato growing head the list every year. Not only in number but in importance as measured in success of farm and town gardens. Questions vary depending on their place of origin in the state. Likewise answers need to be varied to meet wide differences found in growing conditions in Kansas.

Varieties still remain one of the big question marks, not only to home but to commercial gardeners as well. No one variety belongs everywhere. In fact, many gardeners could well afford to use at least 2 varieties. One may give an early yield and the other a later season return.

In Eastern Kansas counties, that is east of U. S. Highway 81 or perhaps U. S. 77, due consideration must be given to use of wilt-resistant varieties. Rutgers, Marglobe, Pritchard, Break O'Day and Pan American all are examples of leaders in wilt resistance. There is some variation in fruiting ability between these varieties as well as resistance to wilt. Break O'Day is the earliest but is subject to foliage losses and the fruit sunburns some years. Rutgers is a main season useful variety. Neither of these has as much true wilt resistance as the more recent introduction, Pan American, but it in turn is often a low-yielding variety. Stokesdale and Valiant are 2 early useful varieties and wilt is not a real problem with them. Our market gardeners have found they are among the best and earliest producers available, they report to us.

Will Lose Foliage

A plant troubled with wilt will show yellowing of lower leaves, followed by complete loss of foliage and death of the plant. Examining the stem of a plant with wilt will show that the tissue between the outer green portion of the stem and the woody tissue has a dark-brown discoloration. Since wilt lives over in the soil, use of wilt-resistant varieties or choosing a new location are about the only choices available.

While wilt resistance often is of first importance in Eastern Kansas, choosing varieties with blossom-drop resistance is as necessary in many Central and Western Kansas counties. Crop insurance varieties of a determinate or semi-determinate habit of growth are needed. On a small or medium-size plant of this type a larger number of flowers will be produced and enough will set to develop a good quantity of fairly useful fruit. It is true more foliage would be desirable to keep the fruit from sunburning. We hope to finally get both values on the same variety or selection.

Sioux, Firesteel, Porter, Victor, Bounty Danmark and similar varieties represent those with ability to fruit under average conditions in Central and Western Kansas counties. To guarantee needed foliage protection, a succatah planting where Sioux and Rutgers for example are alternated close in the row will work well. Later on the Rutgers may produce some fruit. One or 2

varieties of the type such as Sioux are all that are needed in any garden. Individual experience as well as chance to obtain a desirable variety will vary our list some.

Root knot nematodes that cause galls or swollen areas on the root system of the tomato are responsible for many failures. Dry weather usually is given as the cause. But hot weather only serves to make the nematode injury more apparent. Since nematodes develop on the root system many gardeners fail to recognize the trouble since they never check the root system. If in harvesting root crops such as carrots or beets you recall seeing swollen areas or gall-like growths on them, these are a means of determining the presence of nematodes in the garden.

What About Hybrids?

Every mail brings questions on hybrid tomatoes and their place in the list of recommended varieties. Our total experience with hybrid tomatoes covers only 2 or 3 years and each year many new hybrids have been introduced. Check hybrid varieties carefully for maturity time. In Eastern Kansas you may use any of them, but elsewhere short or medium season hybrids should be selected for test planting. In a few years our total experience will give us a better answer on the place of hybrids. These standard varieties I have listed represent 10 to 20 years of testing. Just because a variety does well in a catalog description is no proof of its field performance. We can expect hybrid tomatoes to come into general use as we find out the ones that have a place from their local performances.

Many tomato problems come to our gardens on the seed or plants. Hot-water treatment of tomato seed at 122 degrees F. for 25 minutes will help control many problems. Dry the seed immediately after treatment. Then treat the seed with Semesan, Spergon or some similar material to prevent damping off losses.

If you raise your tomato plants or buy them, choose young, tender plants 6 to 8 weeks old that are not overgrown. Old, tough, oversize plants are a poor choice.

More and more gardeners tell me they follow the practice of direct seeding tomatoes rather than growing and buying plants. Nearly as early maturity is obtained and certain of the disease and handling problems are avoided. In direct seeding, 4 to 6 seeds are placed in each hill. After seedlings are started all but the best plant is taken out. Many plant these seeds 10 days to 2 weeks before the frost-free date. Some use 2 varieties alternating them in each hill.

Beet Increase

A goal of 9,000 acres of sugar beets has been set for the irrigated Arkansas River Valley. This represents an increase of 4,000 acres over 1949 sugar beet acreage.

Kilowatt Kollege Coming

A 10-TON trailer truck loaded down with electrical know-how has started its 1950 tour of Kansas schools and communities. This completely redesigned mobile laboratory of electrical knowledge, sponsored by the Kansas Power and Light Company, goes all out to demonstrate the fundamentals of electricity to students, farmers and townfolks.

A practical feature is the showing of proper wiring methods and wire

sizes. Different types of interior lighting, the ampere reactions of undersize and properly selected motors, and knockdown demonstrations of wiring problems are among the displays. The present tour lasts until May and includes visits to Leavenworth, Hiawatha, Topeka, Manhattan, Abilene, Salina and Hutchinson. The "Kollege" will be open to the public during the evenings. Dates will be published in your local newspaper.



The Kansas Power and Light Company's big traveling display of electrical information which has started its tour of Kansas communities. Much practical information for farmers who now have electricity is crammed into the unit.

Coming Events

March 18—Osborne county 4-H Club day.
 March 18—Osage county 4-H Club day.
 March 18—Cloud county 4-H Club day.
 March 18—Cherokee county 4-H festival, model meetings, demonstrations, promotion talks, Columbus high school.
 March 18—Chase county 4-H Club day, C.C.C. high school building.
 March 18—Neosho county 4-H Club day, Erie.
 March 18—Chautauqua county 4-H festival, Peru.
 March 18—Riley county 4-H spring festival, Randolph.
 March 18—Decatur county spring festival, Oberlin high school.
 March 18—Greenwood county 4-H days, Tonovay high school.
 March 18—Stevens county 4-H Club festival, Hugoton.
 March 18—Doniphan county 4-H day, Troy.
 March 20—Chase county, noxious weed meeting, afternoon, court room, Cottonwood Falls.
 March 20—Neosho county, landscaping architecture school, Erie.
 March 20—Riley county, dairy tour.
 March 20—Barton county 4-H council, Great Bend.
 March 20—Geary county, dairy tour, D.H.I.A. members.
 March 20—Nemaha county beef day.
 March 20—Doniphan county, Fruit Growers meeting, Wathena, (Evening) W. G. Amstein, assisting.
 March 21—Elk county, 4-H Club program; Roger Regnier, assistant state club leader, will assist with program.
 March 21—Decatur county, entomology and pathology meeting, Dell Gates and Claude King representing the college.
 March 21—Lane county-wide men's stag supper and program; Lot Taylor, livestock specialist, and Frank Bieberly, crops specialist, speakers, Healy Methodist church.
 March 21—Shawnee county, Rossville township meeting.
 March 21—Coffey county, home management school, for leaders, Burlington.
 March 21—Shawnee county, marketing meeting, Ray Hoss, leader.

In illness you welcome . . .

Hints About the Heart

Doctor Lerrigo has issued a special letter "Hints About the Heart" that will be sent to subscribers upon request. If you desire a copy be sure to send stamped reply envelope addressed to yourself. Send your request to Editor, Kansas Farmer, Topeka, Kan.

March 21-22—Seward county, 5-state farm forum, Fairgrounds, Liberal.
 March 21—Ottawa county, welding school. Watch for place of meeting.
 March 22—Lincoln county, electric welding school.
 March 22—Pottawatomie county, Union Pacific Railroad Agricultural car all day at St. Marys. L. E. Willoughby, Extension crops and soils specialist and L. E. Compton, secretary, Kansas Crop Improvement Association, will be on program.
 March 22—Barton county 4-H preview, Hoisington.
 March 22—Doniphan county, beef production school, M. B. Powell, specialist, assisting, Troy.
 March 23—Ellsworth county, rural electrification school.
 March 23—Lyon county, dairy tour.
 March 23—Neosho county weed meeting, Erie.
 March 23—Jackson county beef tour, Holton.
 March 24—Nemaha county, Union Pacific Agricultural Car, Seneca.
 March 22—Wabaunsee county, joint an-

Simple Test for Cobalt

Simple, sensitive tests for exceedingly small amounts of cobalt and other minor elements are being developed by research scientists with the U. S. Department of Agriculture. The test for cobalt developed at the Department's Plant, Soil and Nutrition Laboratory by Dr. G. H. Ellis is an example of supersensitivity.

With the method developed by Doctor Ellis the amount of cobalt in a sample can be determined with a colorimeter when there is much less than a millionth of a gram in 5 grams of water. In other words, this test will show the presence of cobalt when there is only one part of the metal in one billion parts of water.

The importance of cobalt in the nutrition of ruminants has been known for some years. More recently cobalt has been found to be an essential the minimal requirement in the building of the molecule of vitamin B₁₂. This vitamin has been found to be highly important in animal growth and in the treatment of pernicious anemia. It is valuable to man indirectly and directly, according to the USDA.

nual dinner meeting of Wabaunsee County Cattlemen's Association and Wabaunsee County Hereford Breeders' Association, Eskridge high school, Dr. A. D. Weber, speaker. Reservation may be made at Farm Bureau office, Alma.

March 24—Greenwood county bindweed meeting, Court House, Eureka.
 March 24—Barton county Angus show, Little River.

March 24—Shawnee county, horticulture trip, W. G. Amstein, leader.
 March 24—Shawnee county, Monmouth township meeting.

March 24—Shawnee county, stag night, livestock program, Garfield Park, 7 o'clock.
 March 24—Elk county, leader training lesson on selection of electrical equipment, Ethel Self, leader.

March 25—Wabaunsee county 4-H festival, Alma.

March 25—Nemaha county, 5-county 4-H Club day, Effingham.

March 25—Pawnee county, sub-district 4-H Club day.

March 25—Lane county, sub-district 4-H Club day, Dighton high school for Lane, Ness, Trego and Hodgeman counties.

March 25—Pottawatomie county 4-H Club day, Onaga high school, 9:30 a. m. to 4 p. m.

March 25—Stevens county, sub-district 4-H Club festival, Johnson.

March 25—Mitchell county 4-H Club day, Beloit high school.

March 25—Ottawa county 4-H meeting, Ottawa Junior high school auditorium.

March 25—Jewell county 4-H Club day, Mankato high school.

March 25—Coffey county 4-H spring festival, Burlington high school.

March 25—Jewell county 4-H Club day, Mankato high school.

March 25—Cheyenne county 4-H Club day, St. Francis.

March 25—Washington county 4-H Club day, Morrowville.

March 25—5-county 4-H day, Effingham.

March 27—Stevens county, Cimarron Valley Hereford Breeders' banquet, Hugoton.

March 28—Lane county, Frank Bieberly and Lot Taylor, college specialists, will conduct a school for 4-H leaders in Lane, Ness, Trego and Hodgeman counties, Court House, Dighton.

March 28—Shawnee county, Soldier-Menoken township meeting.

March 29—Barton county, poultry roundup, City Auditorium, Great Bend.

March 29-30—Jewell county, district Farm and Home Conference, Beloit.

March 29—McPherson county, dairymen's dinner.

March 29-30—Cloud county, district Farm and Home Conference, Beloit.

March 29-30—Mitchell county, North Central Kansas Farm, Home and Industrial Conference, Municipal building, Beloit. Registration 9 a. m.

March 30—McPherson Hereford tour.

March 30—Doniphan county weed control meeting, Troy, (Morning)

March 30-31—Johnson county, nutrition leader training meeting, Olathe.

March 31—Osborne county Shelter Belt management and tree planting demonstration with Extension forester.

March 31—Barton county dairy tour.

April 1—Barton county, 4-H home economics judging school, Great Bend.

April 1—Geary county, sub-district 4-H festival, Emporia; for Lyon, Chase, Morris, Riley and Geary counties.

April 1—Lincoln county 4-H Club day.

April 1-5—Lyon county 4-H Club days, Emporia.

April 1—Jewell county 4-H Club council, County Agent's office.

April 1—Greenwood county 4-H carnival, Memorial Hall, Eureka.

April 1—Pottawatomie county, sub-district 4-H Club day, Wamego high school, Pottawatomie, Shawnee and Wabaunsee counties co-operating.

April 1—Osborne county annual Cattlemen's Association meeting, Osborne.

April 3—Kearny county, farm structure and electricity meeting, Lakin.

April 3—Osage county meeting on remodeling in home.

April 3—Coffey county annual meeting, Sheep and Wool Growers Association, Burlington.

ACCURATE SEEDING AT UNIFORM DEPTH

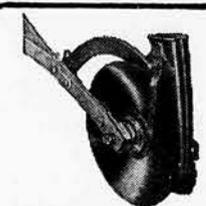


WITH MM Moline Monitor DOUBLE-RUN DRILLS

MM double run feeds will handle every variety of seed in even, continuous streams without bunching or skipping. Clogging is cut to a minimum even when dirty or trashy seed is used. Owners of MM Double-Run Feed Drills report that they get larger and healthier yields because Moline-Monitor Drills plant the seed accurately and properly. Tube holders are arranged so that operator can see the seed being delivered to the spouts at all times.

SINGLE OR DOUBLE DISC OPENER HELPS ASSURE BETTER YIELDS

MM disc openers cut through trash and do a better job of uniformly covering the seed. MM disc bearings are famous for their long life and light running. MM delivery of the seed ahead of the disc bearing assures better covering. These features make MM Double-Run Drills the preferred drills for more uniform seeding.



Famous MM Single Disc Opener With Combination Opened and Closed Delivery.



Double-Run Feed Detail Shows How Grain Is Delivered Uniformly, Regardless of Quantity Being Sown Per Acre.

See Your Neighborly Neighborhood MM Dealer for Complete Facts on MM Modern Machines, Visionlined Tractors and Power Units.



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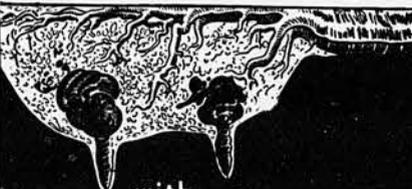
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Longest possible service with the least possible worry and trouble are the big features you will enjoy in your McPHERSON TONGUE-LOCK DIAMOND TOP CONCRETE STAVE SILO. You also have our 37 years of experience to assure you of a better silo.

Contract now for a McPherson silo for future delivery.

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FREE FOLDER For important information on feeding salt and trace minerals, write Morton Salt Co., P. O. Box 781, Chicago 90, Illinois.

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EASY ROLL TRACTOR WIRE WINDER

ONLY ONE REEL REQUIRED JUST DRIVE TRACTOR FORWARD ROLLS, UNROLLS ANY TYPE WIRE

WIRE WINDER MFG. CO. MENDOTA, ILLINOIS

WELL, UNCLE MORT SAID HE WAS A MONKEY'S UNCLE WHEN HE READ THE CIRCULAR ON THAT NEW COMFORT-FIELD SPRAYER THAT MAKES WEED-KILLING SO EASY.

Write COMFORT Equipment Division 1919 P. Baltimore, Kansas City, Mo.

SILO Be Thrifty in '50

Order your "Interlock White Top" NOW. Liberal Discount for early orders and early erection. Terms to suit your income.

Clip and mail this coupon today

Please send descriptive literature on the following:

Silos Grain & Industrial Storage
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 INTERLOCKING STAVE SILO COMPANY
 720 N. Santa Fe Wichita, Kansas

ONE STANDS OUT...



Clayton Yeutter, Eustis, Nebraska, 1949 Gold Medal Showman (Beef) Nebraska State Fair! In 1948, Clayton was awarded 3 trips to National 4-H Club Congress... was a member of State Championship Livestock judging team and top Beef Showman at the Nebraska State Fair. He was one of 4 delegates from Nebraska to 1949 4-H Club Camp, Washington, D. C. Since 1944, Clayton has been winning with his livestock entries in County, State Fair and Ak-Sar-Ben Shows in Nebraska!

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HI-V-I motor oil's low-pour cold test means that tractor, truck and car engines are lubricated right for instant starts at zero and below temperatures!

HI-V-I is a rugged oil... it won't thin out or break down at extreme temperatures. Vital engine parts are completely covered with a rich, cleansing film of oil that removes carbon, tar and gum

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SAVE--Buy Direct

ONLY \$119⁹⁵

16' model, less motor. Chassis with tires \$40 extra



American Standard Sectional Midget elevator 16' through 36'. 4' and 8' sections—8" in width, flared to 12" across top. 16-gauge steel, double seal ball bearings, No. 55 steel chain, riveted curved paddles.

Angle iron chassis requires 10 minutes to attach or detach. Balanced for handling. Motor mount on side, top, or bottom, optional. Two other sectional models, available in 12" and 18½" widths. Endless belt models available for handling of bags, root crops, etc. Power optional.

Sold at low factory-to-you price. Mail card TODAY for FREE literature. Our 61 years' experience building superior farm equipment guarantees you EXTRA value at lowest cost.

HERE'S A TIP: Many farmers share in the purchase and benefits of a "Midget." How about this in your area?

American Planter Co., Burr Oak 5, Mich.

What Happened to Soil

(Continued from Page 5)



WASTELAND: These ditches were cutting back into the cultivated field. Under proper management damage was stopped and some day this spot will be farmed over.

becoming more difficult to till and crusting to a much greater extent following heavy rains.

Need for additional plant nutrients in order to produce satisfactory crops has gradually increased during the last 50 years. Results of field experiments begun in 1910 show that fertilizers, lime and manure all have given greater increases in yield during the last 20 years than they did during the first 20 years beginning in 1910.

What Happened: Favorable

Changes which affected soil favorably during the first half of the present century increased markedly during the latter half of the period. Interest in soil conservation has been aroused both in the mind of the average farmer and the general public. This has been the result of the activities of many agencies both public and private, such as the Soil Conservation Service, technical assistance program to Soil Conservation Districts, Extension Service education program, the Production and Marketing Administration incentive payments, and many corporations which have prepared special educational material. Despite the change in attitude toward conservation, the end of the first half century finds only a relatively few farms with an adequate soil-conservation program.

Use of commercial fertilizers has increased from nearly nothing at the beginning of the century to more than 100,000 tons in 1949. Its use is moving westward. Lime has come up from almost no use to an annual use of about 1,000,000 tons, thanks largely to government incentive payments.

Summer Fallowing Spreads

Use of summer fallow, an excellent practice on the nearly level hard lands of Western Kansas, is now practiced on between 2 and 3 million acres annually. Its use during days of horse power was small.

Sweet clover has come into its own as a soil-improvement crop. It is no longer considered a weed. It takes its place alongside standard crops and does not depend solely on its value for soil improvement. Recognition of its value for pasture, as a silage crop, and as a profitable seed crop has stimulated its use.

Development of farm machinery has had marked effect on the soil. Machines adapted to different uses has had a

favorable effect. Stubble-mulch tillage tools, rod weeders, and terracing equipment are a few examples. Power machinery permits timely work on large areas. Straw on the surface can be managed without burning.

Terracing for soil and moisture conservation is coming into its own. At the turn of the century the terrace as used today was unknown to most farm operators. Today it is known to all farmers and used by many.

Soil testing, a product of the first half of the present century, and pioneered by states to the east of Kansas, came into its own during the last few years of the first half of the century. The State Soil Testing Laboratory came into existence in April, 1949. However, some soil testing by less-refined methods had been done by Kansas State College for many years. Some county soil-testing laboratories have been established. These laboratories have been especially helpful in directing attention to fertility problems on individual farms. Soil tests still leave much to be desired so far as accuracy is concerned, yet they are contributing an important part in the over-all soils program of the state.

A Look Ahead

It is expected the soils of Kansas will continue to decline in fertility, but not as rapidly as they have in the past. Erosion will continue to take a terrific toll of the remaining surface soil. Use of fertilizer probably will continue upward. Value of barnyard manure will be appreciated more in the future than it is today.

Need for soil conservation will be met only in part, but to an increasing extent as farmers become aware of need for conservation of the land. Thus, in the future we may expect to see greater use of grasses and legumes in the cropping system and more terraced fields along with contour farming and strip-cropping. Retirement of marginal lands to permanent cover should come about gradually. There is need for increased attention to the conservation of Kansas soils. Fortunately, the people of Kansas are conscious of this and farmers are doing more and more about soil losses.

Only with a productive soil can we expect to see good herds of livestock, good farm homes, good schools, roads and other public services, and desirable economic and social conditions.

Please Be Careful

A LITTLE boy, only 2 years old, was riding in the driver's seat of a spreader, fell off, and a wheel ran over him. He died next day. Families should take warning and never allow children to ride as passengers on any type of farm machinery.

A middle-aged farmer was operating a tractor, and failed to stop in time to avoid a steep embankment caused by the wash of floodwaters from a nearby creek. The machine turned over—crushing the driver underneath. He was killed instantly.

A farmer, 44 years old, was found in a field where he had been burning stubble. He was lying face down, his clothing burned away. He had been working alone so details of the tragedy are unknown.

—Kansas State Board of Health.

KILL Corn Borers
By
PACKING Ground Firmly
After Plowing Stalks
Under

New

WESTERN SPROCKET Packer & Mulcher

It pulverizes, mulches and firms soil. It does not uncover corn stalks, therefore smother corn borer millers in the ground. Saves time, labor and horsepower preparing ideal seedbed. Leaves surface mulch without grooves, which greatly helps to prevent washing. This seedbed conserves moisture, saves seed because more of the seeds grow; and helps to increase yields of all crops. Great also for rolling in clover and grass seed and breaking crust on winter wheat in spring. Find out why it does the work so much better, easier and faster. Be sure you get the genuine WESTERN. Write for catalog and freight-paid prices direct to you.

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All Year Automatic Hog Waterer—Built Without Floats or Heating Units

Delivered price—\$5.95. See your dealer or order direct. Money back if not satisfied.

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Build Your Own SPRAY RIG with New LOW-COST

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GUNK DEGREASER
Cleans Tractors Right on the Farm Safely Economically Ask Your Tractor Dealer
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TODAY'S BIGGEST BARGAIN

MODEL H POST HOLE DIGGER
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DON'T BUY ANY FIELD SPRAYER UNTIL YOU GET COMPLETE DETAILS ON THE NEW COMFORT MODEL
Write COMFORT Equipment Division 1919 P Baltimore, Kansas City, Mo.

LOOK! TWO TRACTORS IN ONE
with the **HANDEE AXLE CONVERTOR**
Simple to change from row crop to standard tread and back again. See **\$149.50** dealer or write to **HANDEE FARM EQUIPMENT CORP. BETTENDORF, IOWA**

SAVE 50% ON THIS SAVAGE
ELECTRO-HYDRAULIC TRUCK BED HOIST
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Little Ads Bring Big Results
in Kansas Farmer—Classified Department. Only 10c a word, per issue—12 words minimum.

Marketing Viewpoint

By H. M. Riley, Livestock; John H. McCoy, Feed Grains; Paul L. Kelley, Dairy Products; Joe W. Koudele, Poultry and Eggs.

I have heard a change in grades for beef has been recommended. Please explain how this would work.—H. H.

You are probably referring to a recent proposal by the Production and Marketing Administration, of the U. S. Department of Agriculture, which suggests the division of the present "Commercial" beef grade into 2 grades. One of these grades would be called "Regular" and would include young animals, principally steers and heifers; while the older more mature animals, such as cows, would still be in the "Commercial" grade. Bear in mind these grades apply to beef carcasses, and in terms of the live animal a "Medium" grade steer or heifer kills out a "Commercial" grade carcass under our present system of grading. Due to the wide range in age groups now included in the "Commercial" grade, there is an extremely wide range in carcass value within the grade. Separating the relatively more valuable young animals out and calling them "Regulars" would make the grade terminology more meaningful in trade channels. It should be pointed out, however, that only one-sixth of the federally-inspected beef slaughter is actually graded according to government grades. One of the most important advantages of the proposed change would be to make government market news reports on wholesale beef trading more useful in comparing carcass values with live animal prices at the various markets.

What are prospects for oats prices? —B. M.

Oats prices are expected to remain relatively steady or possibly make slight advances from the current period to mid-spring. From a longer range viewpoint there appears to be a good probability that oats prices will decline. Ordinarily oats prices weaken seasonally during the latter part of spring as pastures become more available and grain feeding demands taper off. In addition, it is likely acreage of oats will be increased this spring as a result of acres diverted from corn. Influence of this on oats prices will depend upon crop progress, but at this time it is likely to be a price-weakening influence.

What will be the price spread between grade-A and manufacturing milk this spring?—G. G.

Spread in prices will narrow this spring due to a decline in grade-A milk prices. Manufacturing milk prices are expected to remain about steady, due to the government's price-support program. Grade-A milk prices are anticipated to be substantially lower this spring than a year ago.

How do prices received by Kansas farmers for eggs and chickens compare at present with those in other states?—C. E.

According to the federal-state agricultural statistician, for the month of February, 1950, the following table shows how the mid-month average prices received by Kansas farmers compares with that in other states in the west north central region (Minn., Ia., Mo., N. Dak., S. Dak., and Nebr.) as well as the United States average price.

	Eggs (cents per doz.)	Chickens (cents per lb.)
Kansas	27.2	15.2
W. N. Central States	25.9	17.1
U. S. Average	29.6	21.8

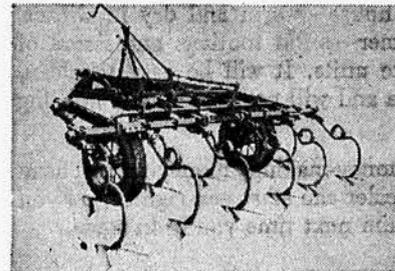
Milk Only After Calving

The practice of "parturum milking" or milking a cow before freshening is not recommended. It was thought this practice might make it possible to eliminate many cases of congested udders at calving time, and also to prevent many cases of milk fever. But experiments at Kansas State College and elsewhere, according to Dr. F. C. Fountaine, dairy husbandry, show it does not help congested udders nor prevent milk fever. In addition, he points out, it removes the colostrum which is necessary for the newborn calf.

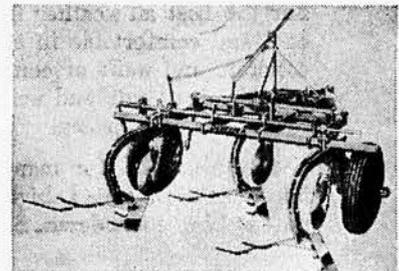
FIELD TESTS PROVE ADVANTAGES OF STUBBLE MULCH METHOD OF SEED BED PREPARATION FOR PLANTING AND SEEDING

Dempster Combination Carrier with its many attachments is designed for the stubble mulch method of farming

Future production of our soil will depend almost entirely upon the treatment we give it. Saving the top soil, storing and conserving moisture where it falls are important. The Dempster combination carrier when equipped with 30" flat sweeps penetrates the ground at the desired depth, leaving residue on top, increasing water-holding capacity in the seed bed, checks evaporation and lessens soil blowing or washing. Ask your Soil Conservation Supervisor about the stubble mulch method.



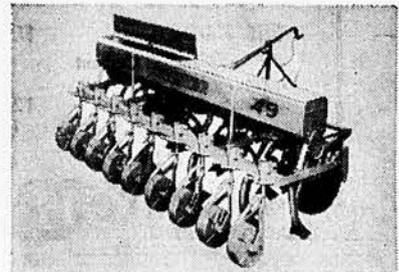
FIELD CULTIVATOR Spring Tooth Attachment can be supplied in either 8', 10', or 12' size . . . may be equipped with either regular 16" sweeps or 2" x 10" double point shovels.



TILLAGE ATTACHMENT consisting of three 30" friction trip sweeps, shaker bars and rolling coulters. Also can supply in five sweep. This attachment has ample clearance for handling heavy stubble.



WHERE SEED BEDS are prepared leaving residue on top, the No. 120 Drill Attachment places seed below the mulch and presses it firmly, leaving ground in condition to hold moisture with little danger of soil blowing.



NO. 120 9' 12" spacing Deep Furrow Drill attached to No. 100 Carrier equipped with press wheels. Double hitch can be supplied for pulling two units.

Other attachments available for the No. 100 Combination Carrier include two and four-row listers, deep chisel attachment, stalk cutter attachment and a two and four-row knifing attachment for cultivating lister crops. See your Dempster Dealer.

DEMPSTER MILL MFG. CO. BEATRICE, NEBRASKA

TRACTOR-DRIVEN WELDER
To be mounted on tractor and driven from belt pulley. 250 amp. D. C. continuous-duty type, fan-cooled welder equipped with dial amperage adjustment, 0-300 ammeter, low heat tap. Furnished with mounting bracket to fit your particular make tractor, combine, jeep or engine. . . . Complete with highest quality accessories, helmet, triple-V pulley, belts, two 20-ft. cables, electrode holder, ground clamp, 10 lbs. of 1/8" to 1/4" electrodes. \$147.50 complete. 10-day trial, 1-year guarantee. Dealer inquiries invited.
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LOW COST HEARING DEVICE
No Tubes. No Batteries. No Upkeep. Just a simple ear plug made of a non-toxic plastic. Many satisfied users. **BEAUDRY, 4337-Q 30th Avenue South, Minneapolis 6, Minn.**

Your Benevolences
should include something for crippled children, and the Capper Foundation, Topeka, Kansas, will see that your contribution is used where it will do the most good in the treatment of handicapped boys and girls.

IMPROVED AUTOMATIC Jayhawk ONE MAN HAY TOOL
SWEEPS . . . LOADS WAGONS . . . STACKS
Easier, Faster, Cheaper Than Any Other Way

"We Put Up 20 Acres of Alfalfa in Half a Day", writes Dakota farmer. "Best I Have Ever Had Any Experience With", says Missouri owner.

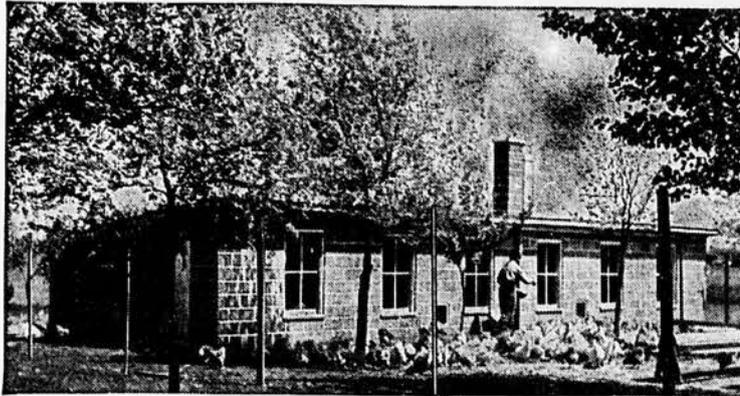
Jayhawk handles hay, straw, heavy feed any other forage crop . . . feeds livestock, fills barns, sheds . . . builds stacks 25 feet high. Works with any tractor, truck, jeep . . . attaches, detaches in 2 minutes . . . operates in wind and on rough ground. Low in cost, high in investment value . . . "Paid for itself the first year", says Montana farmer. Full details in **FREE LITERATURE**. Write today.

Choice of Hydraulic or Mechanical Operation

Jayhawk sweeps from swath, windrow, bunch, makes short turns in corners.

THE WYATT MFG. CO., INC. JAYHAWK FARM IMPLEMENTS SINCE 1903 636 5th STREET SALINA, KANSAS

Increase egg production with all-weather housing



Popular type of concrete block poultry house, 20' x 40', large enough to house comfortably 250 hens. Photo by Portland Cement Association.

Good poultry housing pays. The Missouri Poultry Experiment Station says, "No class of livestock on the farm will more quickly repay the owner for a good home than will a hen."

For the best all-weather hen house—warm and dry in winter, cool and comfortable in summer—build footings and floors of concrete and walls of concrete units. It will be easy to clean, will keep out rats and weasels and will cost practically nothing for repairs and upkeep.

Concrete is ideal for many money-making, money-saving farm improvements. Your Lehigh Dealer can start you right, show you how to keep costs down. See him next time you're in town.

3 men and a boy can build a poultry house like this which requires . . .

<p>FOR FLOOR</p> <p>69 sacks Lehigh Cement 7 cu. yds. sand 8 cu. yds. gravel</p>	<p>FOR WALLS</p> <p>12 sacks Lehigh Mortar Cement 1 1/2 cu. yds. mortar sand 1273 8 x 8 x 16-in. regular concrete blocks 118 8 x 8 x 16-in. corner return concrete blocks 50 8 x 8 x 8-in. corner return concrete blocks</p>
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NOW—let your idle funds be earning a LIBERAL dividend. We've been paying at least 8% on savings for 20 years.

United Offers You —
SECURITY - AVAILABILITY

UNITED BUILDING AND LOAN ASSOCIATION

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Write Dept. 14 for Information
217 E. WILLIAM — WICHITA 2, KANS.

KOSCH FRONT MOUNTED MOWER

You've always wanted a Front Mounted Mower and now it's here. Never before has mowing and mowing been so fast and easy.

All points of wear are Standard III parts including bar sickle and pitman. A thousand satisfied users will tell you the KOSCH FRONT MOUNTED MOWER is the Best. Learn why it's Best for you. Available for Farmall, John Deere, Allis Chalmers, Co-op and other make tractors. Get all the facts. Specify make and model of tractor. Write for FREE literature today.

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ROTATING PLOW HARROW

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PLOW! DISC! HARROW!

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VALLEY MANUFACTURING CO.
Producers of Modern Farm Tools, Valley, Nebraska

Make Poor Acres Productive

FLEX-O-SEAL PRESSURE TIGHT PORTABLE IRRIGATION PIPE

Wastelands yield profitable crops or add valuable acres to pastureland when irrigated with FLEX-O-SEAL Portable Irrigation Pipe. This light-weight, easy-to-assemble pipe can be used on level or rolling land without elbows or tees. Available in Aluminum or Galvanized 3, 4, 6 or 8-inch diameters. Write for FREE folder "Your Best CROP Insurance" and name of nearest dealer.

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FLEX-O-SEAL

Farmers Get the Blame

(Continued from Page 7)

are necessary against needs in case World War III should break loose.

There is the further consideration that for a decade now the United States has been blessed with a series of unusually good crop years. Historically, these cannot be expected to continue indefinitely. There has been considerable dust blowing in the Great Plains area already this year.

A combination of 2 or 3 drouth or near-drouth years in the Wheat Belt and heavy demands for wheat in the face of a possible war emergency, might result in large wheat and feed-grain surpluses being regarded as a God-send—and the support prices that brought about the surpluses as also Heaven-sent.

But with perishables—potatoes, particularly; butter, eggs—the case is different. The consuming public, reading about destruction of potatoes bought at support prices from producers; of dried eggs filling the Atchison cave and a number of other storage facilities, is tending to blame the entire farm program, and farmers, for high prices. And not many big-city newspapers, knowing the explosive potentials in the potato, butter and egg programs, are taking pains to keep the farm program—and the farmers—from being the goats; also for high taxes and the recurring federal deficits.

The Senate recently passed a bill continuing the 60 per cent support-price program for potatoes for the 1950 crop; also permitting larger plantings of wheat, cotton and peanuts than were contemplated under the Agricultural Act of 1949. All of these now are in surplus.

Debates in the Senate, and the procrastinating hearings before the House Agricultural Committee, seem to indicate pretty plainly that this Congress is just going to let things drift until after the November elections. Members of Congress have no serious intention of writing a serious revision of the present really stop-gap farm program.

For better or for worse, the country has the high support-price programs, mounting surpluses, and heavy government buying of surpluses, for some time to come. Also, with rising city resentment against the farm program and against farmers.

This resentment is balanced by growing farm resentment against (1) the government controls that are going to be applied to try to hold down surpluses and surplus buying and storing by government, and (2) against the further round of wage increases in prospect following John L. Lewis' highly successful bulldozing of the Government, the coal operators, and the public in the recently-settled strike.

Senate and House committees have approved resolutions increasing the lending (and borrowing) authority of the Commodity Credit Corporation another 2 billion dollars.

CCC's presently authorized borrowing (and lending) authority is 4 1/2 billion dollars. Presumably Congress will approve the committee recommendations, and increase it to 6 1/2 billion (\$6,750,000,000).

Secretary of Agriculture Brannan informs the Congress that \$4,300,000,000 will be tied up in loans and purchases by this spring.

Thru January 31, CCC had tied up \$1,800,000,000 on 1949 crops—630 million dollars lent on wheat, 398 million dollars on cotton, 725 million dollars on corn, and about 200 million dollars used to buy dried eggs, butter and milk.

Total CCC holdings as of January 31 amounted to \$3,900,000,000. Included are \$1,011,000,000 worth of wheat, \$1,012,000,000 worth of cotton, corn worth another 880 million—at support prices. That runs to \$2,903,000,000. Linseed oil, dried eggs, wool, butter, tobacco, dried milk, small grains, account for another billion.

The additional 2 billion dollars, it is figured, will enable CCC to take care of 1950 crops. If this is a poor crop year, and if farmers plant no more than their acreage allotment and yields are not too good, CCC by a year from now might have only \$5,300,000,000 "invested."

But if 1950 harvests are heavy, the foregoing estimate could be increased by one billion dollars for corn, cotton and wheat alone. What with weather and foreign uncertainties, forecasts on cost of price supports thru 1950 harvested crops are not really too reliable.

The corn borer may be of assistance (?) to the government in holding down government funds for holding corn prices up toward support levels. Not without significance is the recent announcement that Department of Agriculture's corn-borer campaign headquarters is being moved from Ohio to Iowa. The corn borer seems to be making advances westward in the United States with monotonous regularity.

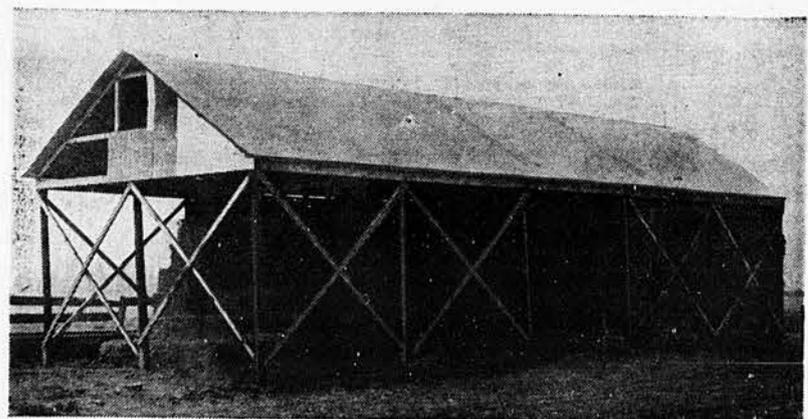
Farmers apparently don't have to plan on a depression in the immediate future. The Administration plans to do all the government spending necessary to hold all prices fairly high, at least until after the November elections. Sometime after that, perhaps the deluge. Also, with John L. Lewis' successful strike for higher wage rates for his coal miners, organized labor is going hard after another round of wage increases this year.

Farm income, nevertheless, is due for another drop—perhaps 10 per cent—this year. For 1949, realized net income was 22 per cent below 1947.

Washington gives the impression that the livestock picture is somewhat brighter than for farmers as a whole. Providing wages remain high or go up, and employment remains high.

Oleomargarine has won a 60-odd-year fight against dairy interests. Taxes against colored margarine are to be abolished this year, June 30. The conference-agreed bill takes care of that. But the margarine boys are not at all pleased with several provisions of the bill. For one thing, it requires that in hotels and restaurants and other public eating places margarine served must be in little triangular patties. And on packaged margarine, the fact it is margarine must be stated in letters as large as any other lettering on the package.

Keeps Hay Fresh



THIS pole-type shelter holds 70 tons of hay, protects it from weather, keeps it fresh all winter. It measures 50 by 20 feet, hay can be stacked 12 feet high in it. Elmer Beyer, Coffey county, built it on his farm last summer. He says he had it in mind 10 years ago but didn't get around to building it. Doesn't know now why he didn't build it sooner. Cattle can be fed from a rack on one side of the shelter, or hay can be fed out on the adjoining field.

Wonderful Results Raising Baby Chicks

Mrs. Rhoades' letter will be of utmost interest to poultry raisers. Read her experience: "Dear Sir: I think I must be one of the very first to use Walko Tablets. Some 35 years ago when I started raising chicks I saw Walko Tablets advertised as an aid in preventing the spread of disease through contaminated drinking water. I tried a package for my baby chicks with happiest results. I have depended upon Walko Tablets ever since." Mrs. Ethel Rhoades, Shenandoah, Iowa.

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Buy a package of Walko Tablets today at your druggist or poultry supply dealer. Use them in the drinking water to aid in preventing the spread of disease through contaminated water. Satisfy yourself as have thousands of others who depend upon Walko Tablets year after year in raising their baby chicks. You buy Walko Tablets at our risk. We guarantee to refund your money promptly if you are not entirely satisfied with results. The Waterloo Savings Bank, the oldest and strongest bank in Waterloo, Iowa, stands back of our guarantee. Sent direct postpaid if your dealer cannot supply you. Price 60c, \$1.20, \$2.50 and \$4.00.

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WRITE for full details and prices. Ask about famous Hastings Grain Bin. HASTINGS EQUITY GRAIN BIN CO. Dept. KF-3 Hastings, Nebr.

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The modern "Rapidigger" for Ford, Ferguson tractors. No gears, drive-shaft. Revolutionary invention. \$125.00. Write for information.

RAPIDIGGER, 2218 Dudley, Lincoln, Nebr.

Everybody's Hospital

(Continued from Page 6)

Farmers, professional men, business men, and laborers are represented on the board. The medical board consists of the 6 Beloit doctors and 12 from other communities.

Mrs. Alma Stuiwe Reiter, superintendent of the hospital, is a former 4-H Club girl who knows what farming people want. She encourages use of the reception room at the nurses' home for all kinds of community meetings. By bringing groups into the hospital atmosphere, greater interest is stimulated.

One method of obtaining money for the hospital has been the annual drive under guidance of J. S. Morrell, superintendent of schools and president of the hospital board. A banquet is held each year the last evening of the drive. Women members of the board of directors, wives of medical staff members, and those on the hospital staff assume responsibility for serving the dinner. Every person giving \$5, or food in that amount, is entitled to a banquet ticket. An average crowd for this banquet is 1,000 persons.

Different organized groups take turns getting a banquet speaker. The bankers, the teachers association, the Farmer Union, the county's 4-H Clubs, and many other groups have taken their turn to make the annual banquet program one of the educational and important social events of the year. Seniors in Beloit high school solicit every house in town, for instance, during the ticket-selling drive. Back in 1946, the 4-H Clubs of the county sponsored the banquet speaker and donated 140 pies for dessert.

These annual drives and banquets generally net the hospital \$5,000 to

Bride's Blue Book

This popular leaflet has been revised and brought up-to-date for the bride-to-be and her mother, planning the wedding. Information on announcement of the engagement, invitations, wedding dress, the trousseau, showers, parties, wedding reception, and many other things of interest, will be found in the leaflet. Please address Entertainment Editor, Kansas Farmer, Topeka, for your copy and enclose 5c for handling charge.

\$6,000 and, this past year, many gifts other than money were donated. A \$13,000 X-ray machine was given by Earl Sams, a former Beloit boy now living in New York City; an oxygen tent was the gift of Mrs. John Parks, a local resident, and George Eresch, a Beloit banker who also has farm interests, donated a steer. This year the area had a \$20,000 drive, with half of the money going for improved care for infants.

Farmers from over a large area help support the hospital and, in turn, many patients in the hospital are farmers who become ill or who are victims of farm accidents. Only recently a farmer's leg, mangled in a farm accident, was saved because of facilities at the hospital.

There are 15 Home Demonstration Units and 651 men members of the Mitchell County Farm Bureau. All contribute in some way. Some donate (Continued on Page 35)



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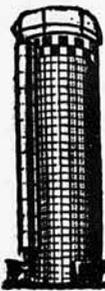
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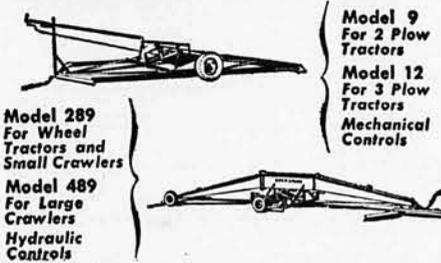
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New and Used Tractor Parts. Write for big free 1950 catalog; tremendous savings. Satisfaction guaranteed. Central Tractor Parts Co., Des Moines 3, Ia.

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McCormick Field Cultivator. 12 foot, excellent condition, \$135. Carlyle Grage, Hugoton, Kan.

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Three Beautiful, New Print Sacks \$1.00 plus 15c postage. Satisfaction guaranteed. Economy Sales, Rock Springs 8, Ga.

Everybody's Hospital

(Continued from Page 33)

money and several of the womens' units include the hospital in their year's program of club work.

Last year one Home Demonstration Unit hemmed linen towels, one made cotton swabs, while others made crisp new curtains for the hospital. Dressed chickens and large quantities of other foods are given each year by farmers for the annual benefit banquet.

Members of various 4-H Club groups in the county have received their physical examinations at the hospital and, in turn, have given books, magazines and scrapbooks to the hospital for use by patients.

But everybody helps. One housewife has, for several years, supplied all necessary baby dresses for the maternity ward. The American Legion Auxiliary provides wheel chairs for patients. The Civic Club has provided money for toasters and coffee makers. Many womens' clubs of the community remember patients at holiday time with gifts of fruits and of potted plants. Boy and Girl Scouts provide letter openers and scrapbooks and volunteer their services to wash hospital windows.

Another source of income for the community hospital is the Economy Shop. The reputation of this project is becoming widespread. Farmers and townfolks alike give to the shop any used but still wearable clothing or small salable articles. These are, in turn, sold for cash and the proceeds used to buy new equipment for the hospital.

Brings Good Income

This Economy Shop has been in operation 12 years and receipts for this period total \$10,359.15. Last year alone \$2,000 was realized from clothing and other articles that otherwise might have been wasted or destroyed. In the last 12 years shop receipts have been used to purchase for the hospital the following: anesthetic machine, \$489; secretary and love seat, \$127.35; rug and mirror, \$37.50; curtains, shades and awnings, \$705.93; chairs, \$852.07; bedroom furniture, \$850.33; trees for lawn, \$55.62; china for nurses' home, \$30; deep freeze, \$715; staff dining-room furniture, \$559.76; linens, \$5,687.70. These are substantial contributions to hospital upkeep in anybody's community.

Alice Smith, who had several years of experience as a social worker in Chicago before making Beloit her home, donates her time and talents to operate the Economy Shop. The shop is kept open every Saturday from 8 A. M. to 5 P. M. Space for the shop is donated by the city.

Her biggest job, says Miss Smith, is to estimate the value of clothing and articles and to mark a fair selling price on everything given to the project. Very few things are marked higher than \$6.

Customers come from far and near to take advantage of the many bargains. Some of the things are purchased by local people who, in turn, send them to relatives or friends in foreign lands.

All Clubs Help

Most organized clubs in Mitchell county make helping the Economy Shop one of their projects each year. For instance, the YWCA is sponsoring the giving of chinaware to the shop; the Minerva Club is making sure there is no shortage of costume jewelry and pocketbooks, while Lion and Rotary clubs are seeing to it that men's clothing is always available for sale.

Nothing is wasted in the Economy Shop program. Silk dresses, blouses and ties that are out of style are sold to a woman in Arkansas for rug-making. Many boxes of unsold clothes have been shipped for overseas relief. Thrifty mothers of the community often buy garments for the excellent material so they can make them over into little coats and dresses.

The slogan for the entire community is: "If you haven't worn it or used it for a year, give it to the Economy Shop."

That, in a nutshell, is how one area of Kansas has solved the hospital problem.

Perhaps the experience of Beloit and surrounding communities, as outlined in this story, will help point the way for your community in your struggle to solve the same problem.



Farm Service Bulletin

1 SMART IDEA—COMBINE 3 JOBS IN 1! Combining several field jobs into a single operation saves time and money. USDA agricultural engineers accomplish a three-way weed control job in cotton with a single tractor equipped with a shovel cultivator, a flame cultivator, and a complete spray system.

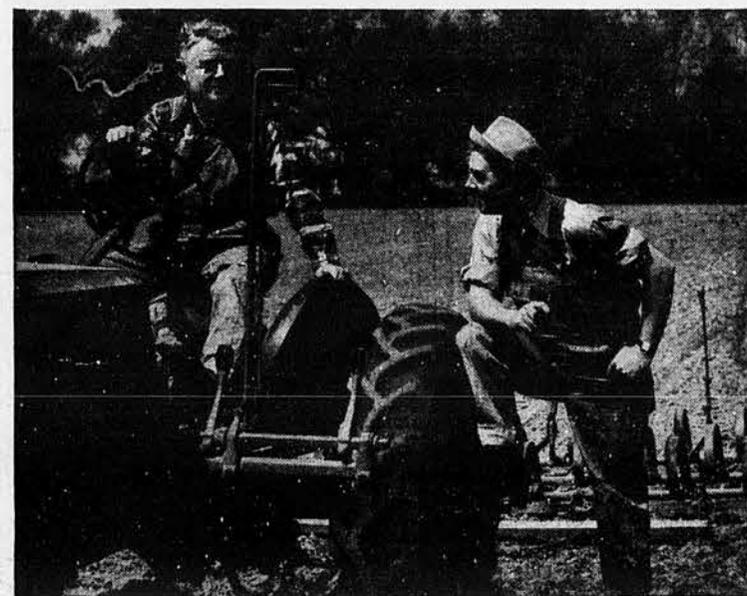
2 INCREASE HOG PRODUCTION—By raising pigs on clean pasture, the USDA cuts losses from internal parasites. However, if pigs are infested, the USDA suggests treatment by feeding them a mixture of one pound of sodium fluoride with 100 pounds of dry feed.



3 NEW SNAP BEAN VARIETY—Called TOP-CROP, this All-American Gold Medal Winner is excellent for canning, freezing, market garden, and home garden use. This superior early variety, developed by the USDA, is widely adapted, matures uniformly, and yields abundantly.



4 NEW PREMIUM MOTOR OIL—Developed by the new "heart cut" process, Cities Service Premium Koolmotor Oil gives you a cleaner engine, more economy, longer engine life. Buy from your Cities Service Farm Representative.



CITIES

SERVICE

QUALITY PETROLEUM PRODUCTS

Accessories for the farm

5 SELF-CLEANING TRACTOR TIRES—The new design tread of this Cities Service LOADMASTER tractor tire expels dirt and mud as the tire turns. It's smoother-rolling, longer lasting and gives greater traction. Buy from your Cities Service Farm Representative.



Kansas Certified
HYBRIDS
YIELD
MORE
CORN

Developed specifically for Kansas conditions . . . Grown and processed by Kansas farmers to meet rigid certification requirements. For maximum production on reduced acreages you can't afford to plant less than the best. For descriptive directory of certified seed write . . .

THE KANSAS CROP IMPROVEMENT ASSN.
Manhattan, Kansas

Kansas Certified Nemaha Oats
Bagged and sealed \$2.25 bushel. 37 and up test weight. Write for quotations on large quantities.
LAMBERT & DICKERSON
Hiawatha, Kansas

Kansas Grown Certified Hybrid Seed Corn.
We have K1585, K1784, K1839. Flats \$7.00. Medium Rounds \$6.00. Large Rounds \$5.00. Freight postpaid on three bushel or more. Spergon DDT treated. John L. Wingert and Sons, Dunlap, Kan.

Certified U.S. 13, K1784, K1646, Kansas Red Clover. Harold Staadt Seed Farm, Ottawa, Kan.

Buffalo Alfalfa Registered Seed. Ninety cents per pound. Earl Collins, Florence, Kan.

Certified Cherokee Oats. Germination 97%. Purity 99.50%. Price \$6.50 per three-bushel sack. Registered Buffalo Alfalfa 90 cents per pound. Earl Collins, Florence, Kan.

Pure, Certified Seed of high germination and purity of the early Midland milo, the new Ella sweet sorgho, and Norkan. Fort Hays Experiment Station, Hays, Kan.

Certified Atlas Sorgho. 800 bags, germination 89%. \$5.00 per 100 lbs. in quantities only. George Wierenga, Cawker City, Kan.

For Sale: Certified Wichita Wheat and Early Sumac Cane. Leonard C. Brown, St. Francis, Kan.

Certified Midland Milo. 90% germination. \$5.00 cwt. FOB Nickerson, Kan. Dale E. Leichter.



IN THE FIELD
MIKE WILSON
Topeka, Kansas
Livestock Editor

A TOTAL of \$255 in cash premiums has been offered for the first annual Kansas Barrow Show and Swine Day. Date for the show is Tuesday, March 21. It will be held in the 4-H livestock building at the Kansas Free Fair grounds, Topeka.

The show has been divided into 2 divisions, one for adults, another for juniors. All junior exhibitors must be actively enrolled Vocational Agriculture students or 4-H Club members between the ages of 10 and 21 inclusive.

Superintendent of the show is John O. Miller, agricultural commissioner of the Topeka Chamber of Commerce. March 18 was deadline for receipt of applications.

Both adult and junior divisions have been divided into 3 classes. Seven awards, ranging for \$15 to \$3, will be paid in the single barrow classes, both junior and senior. Exhibitors in both divisions are limited to a maximum of 2 barrows in the single barrow class.

In the pen of 3 class, both senior and junior divisions, 3 premiums will be paid; \$25 for first place, \$15 for second and \$10 for third. Third class will be pen of 3 sired by same sire. It will be open to both junior and senior exhibitors. Four premiums of \$25, \$15, \$10 and \$5 will be paid. Barrows shown in single classes may also be shown in pen classes. But exhibitors will be limited to one pen in each of the 2 pen of 3 classes.

Grand champion barrow and grand champion pen trophies will be presented at the close of judging. Winners in the senior and junior divisions will compete for those trophies.

Judging of the barrow show will begin at 8:30 in the morning in the adult division and one hour later in the junior division. Judges will be Paul Zillman, Kansas-Nebraska Chain Stores Council, Kansas City; Carl Elling, Extension livestock specialist, Kansas State College; and Dean Whitmore, John Morrell and Co., Topeka.

After judging is completed, from 10:15 in the morning until 3 in the afternoon, a special swine day program has been arranged. It will include a live hog-type demonstration by John H. Dohogne, manager of agricultural service, John Morrell and Co., Ottumwa, Iowa. A discussion of swine production practices by Mr. Elling. Both of these will be in the morning.

In the afternoon, R. L. Rawlins, farm management specialist, Kansas State College, will discuss need for sound swine programs. Ray M. Hoss, Extension marketing specialist, Kansas State College, will review the market outlook for hogs. The program will be completed with a pork carcass demonstration by Mr. Dohogne.

In addition to the regular show premiums, several registered breeders and the various breed associations are offering special awards and premiums in case winning barrows represent their breeds.

And a special award will be made by Lloyd D. Cole, Shawnee county Chester White breeder. Mr. Cole is offering a spring weanling registered Chester White boar or gilt pig to the owner of the champion barrow in the junior division, providing the winner agrees to use it as a project and show it at either the 1950 Kansas Free Fair at Topeka or the Kansas State Fair at Hutchinson. If the owner of the champion barrow does not want to accept the offer, it will be offered to the next in line winner.

Market hogs entered in the show may be purebred, crossbred or grade.

Hundreds of breeders and farmers and people interested in good livestock attended the C. E. REED AND NEIGHBORS PRODUCTION SALE of Aberdeen-Angus cattle at the Reed farm, 3 miles west of Wichita, March 8. Twenty-three bulls averaged \$532; 28 females averaged \$347. The top bull of the sale was Beefmaker 170th, from the Reed consignment, and sold to William Davis & Son, of Goodland, at \$1,150. Elbina of Wichita 12th, also from the Reed consignment, was the top female in the sale, going to Red Oak Stock Farm, Rocky Comfort, Mo., at \$600. A \$600 top was also reached on a female entry from the Lloyd Ericson herd, of Marquette. Red Oak Stock Farm was also purchaser of this heifer. The 51 head sold made a general average of \$430 per head.

SEEDS
Hardy Recleaned Tested
Kansas Alfalfa Seed, \$23.70
Grimm, \$25.80; Certified Buffalo Alfalfa, \$47.40; Sweet Clover, \$12.90; Brome, \$7.15; Korean Lespedeza, \$3.95; all per bushel, truck Concordia, bags free.
Carries return guarantee. Samples, prices other seeds on request.
JACK BOWMAN, Box 615, Concordia

Certified Hybrid Seed Corn only \$5.00 bushel freight paid. Results of 39 years producing high yielding seed corn. Dried and processed in second largest seed corn plant in the world with best machinery we can buy. Send for new catalogue of all kinds field and garden seeds at low prices. Kelly Seed Co., Peoria, Ill., or San Jose, Ill.

Hybrid Watermelon Seed. Grow 50-100 pound watermelons without sandy ground. Full instructions, 500 watermelon and 200 cantaloupe seeds, \$1.00. Free catalog. Airline Farm, Rossville, Kan.

PLANTS AND NURSERY STOCK
Strawberry Plants—Certified Dunlap Blakemore and Aroma 100—\$1.00; 500—\$4.50; 1,000—\$8.50; 5,000—\$40.00. Giant Robinson and Premier 100—\$1.25; 500—\$5.50; 1,000—\$10.50. Everbearing Strawberries—Large thrifty plants will bear this year. Streamliner, Mastodon and Gem 25—\$1.00; 100—\$2.50; 200—\$4.50; 500—\$10.00. 12 large Rhubarb \$1.00; 100—\$6.00. 25 2-year asparagus \$1.00; 100—\$3.00. Special Offer—6 Rhubarb, 25 asparagus and 100 Blakemore strawberries \$2.00. Everything postpaid. Labels true to name, full count and satisfaction guaranteed. Catalog free. Ideal Fruit Farm, Stilwell, Okla.

Better Nursery Stock for Less Money. Best varieties. Hardy Cherry, Apple, Pear, Plum, Peach and Nectarine trees in dwarf, standard and giant sizes. Giant Blueberries. One year and bearing-age Raspberries, Blackberries and Boysenberries. Grape plants, 1 yr., 2 yr. and bearing age. Nut trees. Certified Strawberry plants, Asparagus, Rhubarb, Currants, Gooseberries, Everbearing Roses, Shrubs, Evergreens, Ornamental trees, Perennials, Climbing Vines, Hedging, Glads, Dahlias, Iris. Catalog free. Zilkte Nurseries, Baroda, Mich.

Frostproof Cabbage and Onion Plants—Large, stalky, well rooted, hand selected. Cabbage—Jersey Wakefield, Charleston Wakefield, Flat Dutch, Copenhagen Market, 200—75c; 300—\$1.00; 500—\$1.25; 1,000—\$2.25. Onions—Crystal Wax Bermuda, Yellow Bermuda, Sweet Spanish, 300—75c; 500—\$1.00; 1,000—\$2.00—\$3.00. All postpaid. Satisfaction guaranteed. Cuiver Plant Farms, Mt. Pleasant, Tex.

Strawberry Plants—Hardy northern grown, double insolated Dunlap, Beaver, Blakemore 200—\$2.00; 500—\$4.50; 1,000—\$8.50. Streamliner, Gem, Giant Robinson 200—\$2.50; 500—\$5.75; 1,000—\$11.00. Giant Gem, Streamliner, Minnesota 1186 Everbearing 100—\$2.25; 500—\$10.00. Fresh plants, prompt shipment. Everything postpaid. Iowa Nursery, Farmington, Ia.

Send No Money—Pay on Arrival—Certified Peppers, Frostproof Cabbage, Onions, Tomatoes, Cauliflower, 200—\$1.00; 500—\$1.50; 700—\$2.00; 1,000—\$2.50; 9,000—\$10.00. Leading varieties, mixed anyway wanted, mospacked. Texas Plant Farms, Dept. K, Jacksonville, Tex.

Home Orchard Collection—6 apple, 6 peach, 1 cherry, 1 pear, 1 plum and 5 grapes, Best varieties, adapted to your section, all 2-year best grade trees, well branched, 4 to 5 feet high \$7.95 postpaid to your mailbox. Planting directions and price list free. Ideal Fruit Farm, Stilwell, Okla.

Quick Bearing Fruit and nut trees, shade trees, grape vines, berry plants, everbearing rose bushes and flowering shrubs at money saving prices. State and federal inspected. Satisfaction guaranteed. Write today for free colored catalog. East's Nursery, Amity, Ark.

Cabbage, Bermuda Onion Plants, \$1.50—1,000. Tomato, Potato Plants, \$2.50—1,000. Pepper, Eggplant Plants, \$3.50—1,000. Leading varieties. Prompt shipment. Dorris Plant Co., Valdosta, Ga.

FARMS—KANSAS
Good Dairy Farm, 240 Acres, 2 miles town, good buildings, \$75 an acre. T. B. Godsey, Emporia, Kan.

FARMS—MISCELLANEOUS
Own a Farm in the agricultural center of the United States. Write for new 1950 catalog describing many productive farms. Sutter Farm Company, Realtors, 1016 Baltimore, Kansas City, Mo.

Strout's Farm Catalog Free! Big Golden Anniversary issue, 124 pages, 2,830 bargains, 32 states, Coast-to-Coast. Strout Realty, 20 West 9th St., Kansas City 6, Mo.

Free Spring Catalog, farm bargains, many equipped, illustrate several states! United Farm Agency, 428-KF, BMA Bldg., Kansas City 8, Mo.

OF INTEREST TO ALL
PRICES ARE DOWN!
On Nationally known Winona Memorials. Manufactured since 1866. Guaranteed workmanship. Write for Free catalog.
Winona Monument Co., Box 565, Winona, Minn.

False Teeth Repaired, 1 day service. Reasonable prices. No impressions required. State briefly nature of breakage for free information, prices and mailing carton. Dental Products Laboratory, Dept. KA-1, 3709 Roosevelt Rd., Chicago 24, Ill.

Read Capper's Weekly and receive a gift. It's the most interesting and informative weekly newspaper you have ever seen. Write Capper's Weekly for details. Circulation Department K, Topeka, Kansas.

Save Chicken Feed! Don't feed the sparrows high priced chicken-feed. My homemade trap guaranteed to catch them by the dozens. Easy to make. Plans 10c and stamp. Sparrowman, 1715 Lane, Topeka, Kan.

Fish Bait—Over 20 recipes and suggestions only 10c and stamp. Many favorable reports received. K. F. Fisherman, 1715 Lane, Topeka, Kan.

Wonder Arch Supports eases aching feet. Thirty days free trial. Earles Company, Flint, Mich.

Seventy-seven head of Herefords were sold at the ANNUAL MARSHALL COUNTY SALE, at Marysville, Monday, March 6th. Fifty-four bulls were sold for an average of \$350. Twenty-three females averaged \$298. The sale's top was Domino WHR 25th, consigned by Harold Stump, of Blue Rapids, and sold to George Miller, Jr., of Milford, at \$600. A top of \$550 was paid on females. This was the bid of William Hollway, of Morrowville. This was a heifer called Lady Domino 60th, also from the Stump herd. The 77 head sold made an average of \$334 per head. This figure was very satisfactory as the majority were very young. Many of them were 1949 calves. They were presented in good thrifty breeding condition. The sale was managed by Elmer E. Peterson, of Marysville, who has managed this sale since its origin. Elmer had everything in fine shape and the sale was a great success.

LOOK! COMPARE OUR PRICES

White Varieties		Yellow Varieties
\$10.30 Large and Medium Flats		\$8.80
9.30 Small Flats		7.80
6.60 Large and Small Rounds		5.50
7.90 Medium Rounds		6.60
Silo Blend	Not sold by kernal size	5.00

VARIETIES NOW AVAILABLE

YELLOW	WHITE
Early No. 40	Late K2234, K2299
Medium Nos. 35, 13, 44 44a, K1784	Pick up at your local Tomson dealer or order direct from us.
Late Nos. K1585, 32	WE PAY THE FREIGHT.

They've Done It Again

In the 1949 Kansas Corn Performance and Co-operative Tests, Kansas-grown hybrid seed corn has averaged 4.2 bushels per acre more than other hybrids entered in the one or more tests in each of six districts covering the growing section of the state. This again puts a heavy emphasis on the necessity of planting a seed corn ADAPTED to this area. Tomson Hybrids are Kansas grown and have been produced for the past twelve years.

A SPECIAL INVITATION

To you who have never planted Tomson Hybrids, we offer a special invitation to join the thousands of leading farmers who year after year use our seed. We believe if you plant Tomson Hybrids in 1950, you will become a regular customer.

TOMSON HYBRID SEED CORN
WAKARUSA, KANSAS

The Kansas State Fair grounds was the scene of one of the good **HEREFORD HOG** sales the past season in Kansas. Sale manager Milt Haag had all presale arrangements taken care of in his usual fine manner. Fifty-seven head of registered Hereford hogs were sold in this sale. Thirty-one head of the offering were purchased by Kansas breeders. The top boar of this sale was sold at \$137.50 to Howard Grover, owner of H & G Farms, Colby. A few boars were sold at very good prices. The top bred gilt in the sale was sold for \$720. That price was paid by W. A. Ward, Jr., of Marietta, Ga. The gilts in the sale averaged \$98 a head. The general average was \$82 on all gilts, boars and open gilts. The offering was considered one of the finest set of hogs of this breed to be sold at auction in Kansas for some time.

Dual-Purpose CATTLE

NATIONAL DEDICATION CONGRESS SALE OF MILKING SHORTHORNS

SPRINGFIELD, MO.
APRIL 25



Plan now to attend the greatest "double header" event in the history of the American Milking Shorthorn Society. First, the big sale. You will see some of the best cattle of the breed, selections to be made by same methods as for a National Show. Second, Dedication. The Sale will fittingly dedicate our beautiful new building in Springfield which has been erected to enable members of the Society to promote their chosen breed. This National All-Female Dedication Congress Sale will be held at the Fairgrounds, Springfield, Missouri, April 25. Come on! Come all! You'll enjoy seeing your friends; attending the Parade, Banquet, Meetings, etc. Sale consists of ALL-FEMALES. Cows, not more than 7 years old at last birthday; Heifers, not less than 18 months old and bred. All animals accepted for sale required to pass inspection of committee appointed by State of District Ass'n. Each State or District Ass'n limited to ten (10) head. Free Catalog.

American Milking Shorthorn Society
4122 S. Union Ave., Dept. KF-5 Chicago, Illinois

FLOYD O. REVERT

Complete Dispersal Reg. Milking Shorthorns
Tues., April 11—1 P. M.

At farm 5 miles east of Forgan, Okla., on U. S. Highway 64 (sign) then 3 miles north. 50 Reg. Cows, Bred and Open Heifers, Bulls including sire, Wachusett Fredason 2d RM pedigree. For catalogs write

ROY PAULI, Sale Manager
Box 157 Broken Arrow, Okla.
Roy Pauli, Auctioneer

Dairy CATTLE

Holsteins Sunnymede Farm "BURKE'S"

Senior Sire
PABST BURKE LAD STAR
Sire: Wisconsin Admiral Burke Lad
Dam: Ollie Lady Star Nettie
Junior Sire
PABST ROBURKE ADMIRAL
Sire Pabst Roamer
Dam, Pabst Burke Senorita
Daughter of "Burke"
Sons of Pabst Burke Lad Star available
C. L. E. Edwards, R. 9, Topeka, Kan.

BULL CALVES FOR SALE

We bred and developed the first and only Holstein cow in Kansas to produce 1,000 pounds of fat in 365 consecutive days. Young bulls with high-production dams or granddams.
H. A. DRESSLER, LERO, KAN.

AYRSHIRES

MOST PROFITABLE COWS
Big Milkers Hardly Rustlers
Good Grazers Perfect Udders
Write for Booklets and List of Breeders near you with Stock for sale
Ayrshire Breeders Association
260 Center St., Brandon, Vt.

REGISTERED GUERNSEY BULL

FOR SALE — 2½ years old.
C. A. BELLMAN, Belle Plaine, Kan.

REGISTERED GUERNSEYS

Since 1908 High Production. Correct Type. Popular Bloodlines.
Ransom Farm, Homewood (Franklin Co.), Kan.

REG. BROWN SWISS BULL

Zimmerdale's Phillip, sired by Bradenhurst Exhibitor. Dam produced 618 lbs. fat. Five young bulls from dams producing over 400 lbs. fat and sired by Zimmerdale's Phillip.
LLOYD SPESARD, Arlington, Kansas

BERT POWELL

AUCTIONEER
LIVESTOCK AND REAL ESTATE
1629 Pias Avenue Topeka, Kan.

DONDALE FARM GUERNSEYS AT AUCTION



We will sell under cover at the farm 40 miles northwest of St. Joseph, Mo., or 10 miles south of Maryville, Mo., on highway 71, then 5 miles west on blacktop road. (Turn at sign.)
30 REGISTERED GUERNSEYS SELL
13 MATURE COWS, 3 to 6 YEARS; 6 BRED HEIFERS; 7 OPEN HEIFERS; 4 BULLS, 3 YEARLINGS, 1 5 MOS. OLD

Production—Bloodlines: Herd has been in D.H.I.A. for 14 years. Herd average past 3 years was 376 pounds butterfat and 7,703 pounds of milk. Among the many good cows we are selling is May Ellen Of Dondale that made 9,980 pounds of milk and 528 pounds butterfat on 2 X milking as a junior 4-year-old in H.I.R. The full bred to him. The other bull featured in this sale is Fritzy Val Romancer. We sell cows and heifers bred to him and calves sired by him. We must reduce this Herd: We have bred all the cattle in this sale but 3 head. We have size, type and production in this sales offering. Health—Herd Tb. and Bang's free.
Write for catalog of sale to **FRED SHAMBERGER & SONS, Graham, Missouri**
Telephone is 10-59 Graham

Route 1 Lunch at Noon
Aucts.: Bert Powell, Topeka; L. E. Taylor, Maryville Donald Bowman with this publication

The **KANSAS O I C SWINE BREEDERS' SHOW AND SALE** held at Salina, February 22, brought out an audience of about 300 buyers and visitors. Twenty-eight head were sold for a total of \$2,002.36. The grand champion boar consigned by Vernon Zimmerman, of Inman, sold to L. E. Gatz & Sons, of Newton, for \$120. The reserve champion boar consigned by Sylvester Martin, Mt. Hope, sold to Homer Pfug-horff, of Ellsworth, for \$91. The grand champion bred gilt consigned by Vernon Zimmerman, of Inman, sold to J. C. Murdick, of Tescott, for \$120. The reserve champion bred gilt was consigned by Otto Delf, of Inman, and sold to Tom Tucker, of Salina, for \$76. This offering was well fitted and the weather was ideal.

Milking Shorthorn District Shows

April 17—Northwest District show at Colby starts at 1:00 P. M. Judge, Leo Breeden, Great Bend.
April 18—Southwest District show at Garden City, 10:30 A. M. Judge, E. L. Wolf, Quinter.
April 19—North Central District show at Herington, 12:30 P. M. Judge, John S. Hoffman, Ensign.
April 20—South Central District show at Hutchinson, 12:30 P. M. Judge, Gordon Janssen, Bushton.
April 21—Northeast District show at Horton, 10:00 A. M. Judge, Walter Clarke, Great Bend.
April 22—Southeast District show at Garnett, 10:30 A. M. Judge, E. L. Wolf, Quinter.

Trend of the Markets

Please remember that prices quoted here are Kansas City tops for best quality offered.

	Week Ago	Month Ago	Year Ago
Steers, Fed	\$28.90	\$28.50	\$26.00
Hogs	17.50	17.50	21.75
Lambs	27.00	26.50	29.00
Hens, 4 to 5 lbs.	.25	.21	.37
Eggs, Standards	.30	.30	.40½
Butterfat, No. 1	.61	.55	.56
Wheat, No. 2, Hard	2.30	2.24½	2.28
Corn, No. 2, Yellow	1.30½	1.28½	1.35½
Oats, No. 2, White	.83	.82	.79
Barley, No. 2	1.19	1.12	1.25
Alfalfa, No. 1	27.00	27.00	30.00
Prairie, No. 1	14.00	14.00	18.00

HOGS

EXCELLENT DUROC GILTS

Sired by or bred to Super-Spotlight, Perfect Trend and Lo-Thickmaster. Many bred to Best's King, 1st Prize Jr. Spring Kansas State and Reserve Jr., some to Crusader Ace. These are suitable for herd improvement, Club Projects. High class feeders. Offer wonderful serviceable boars, fall pigs. Registered, immuned. Guaranteed to please. Prices reasonable. Write, phone, come.
G. M. SHEPHERD, Lyons, Kansas

HAVEN HOLLOW FARM DUROCS

Fall Boars and Gilts by Model Promoter and Star King. These are top quality. Registered, immune and guaranteed.
G. F. GERMANN & SON, Manhattan, Kansas

DUROC CHAMPION BRED GILTS

Bred to champion bred boars by Royal Fleetime 1st and He'll Do's Model, for last half of March and April 1st farrowing. Also splendid September pigs. One very outstanding serviceable boar.
B. M. HOOK & SON, Silver Lake, Kansas

Reg. Spotted Polands

Fall boars. Extra good. New bloodlines.
SUNNYBROOK FARM, RICHLAND, KANSAS
H. E. HOLLIDAY

POLAND CHINA BRED GILTS

for March and April farrow.
Bauer Bros., Gladstone, Neb.

ETHYLEDAL FARM

Improved for type and bigger litters. Best of breeding. Choice fall boars and fall gilts ready to go.
PRODUCTION HAMPSHIRE DALE SCHEEL
Emporia, Kan., Rt. 2

AUCTIONEERS

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

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

A GOOD PLACE TO BUY REGISTERED ANGUS CATTLE

is in the 10TH ANNUAL SPRING SALE of the

MID-KANSAS ABERDEEN-ANGUS BREEDERS' ASSN.

Show and Sale Will Be Held at State Fair Grounds

Hutchinson, Kansas

on Tuesday, April 11

(SHOW 9 A. M.—SALE 1 P. M.)



80 Lots Selling — 23 Bulls and 57 Females

The oldest association of this breed in Kansas presents its biggest and best sales offering. 30 consignors make this sale possible. Watch Kansas Farmer, issue April 1 for more information about this sale.

For sale catalog write to **H. L. FICKEN, Sales Manager, Bison, Kan.**

Pres., Fred Schultis, Great Bend, Kan.; Sec., Phil Sterling, Canton, Kan.

Auctioneer: **Roy Johnston**

Mike Wilson with Kansas Farmer

REG. MILKING SHORTHORN SALE

Ted Schnuelle & Sons Complete Dispersion

SELLING

Wednesday, April 5, 1950

AT FAIRGROUNDS

Fairbury, Nebraska

SALE STARTING AT 1:00 P. M.



35—QUALITY MILKING SHORTHORNS—35

30 FEMALES — 5 HERD-HEADING BULLS

Many of these cattle have won top place at the state shows during the last several years. This herd was founded 19 years ago, during which time only R. M. bulls have been used. Also selling is our 2-year-old herd sire Elm Grove Duke, son of Elm Grove Pansy (356 lbs. B.F.). He is closely related to Elm Grove Star who has been so successfully used thruout Kansas, now in his ninth herd. C. B. Callaway, Fairbury, Nebr., is also selling 5 head of select cattle in this sale. His herd is one of the oldest and best in the state of Nebraska.

Auct.: **Gus Heidebrecht, Inman; Ringmen: Joe Hunter & Marvin Spitsnogle**

Catalog will be forwarded promptly on request to

TED SCHNUELLE, (Phone 2531) Jansen, Nebr.

NEBRASKA-KANSAS SHORTHORN AND

POLLED SHORTHORN BREEDERS' AUCTION

at the Superior Sales Company Pavilion

Superior, Nebraska — Tuesday, April 11, 1950

1:00 P. M. C.S.T.

15 Shorthorn Bulls 8 Shorthorn Females
30 Polled Shorthorn Bulls 22 Polled Shorthorn Females
Aval yourself of some of these good Shorthorns and Polled Shorthorns and benefit from the qualities in which they excel. You'll find that this offering has not been highly fitted and that you will have the opportunity to purchase top-going cattle at conservative prices.
Strong herd bulls, bulls for commercial breeder, farmer and rancher, 2-year-olds, yearlings and a few outstanding bull calves. The females include cows with calves at foot, bred and open heifers. Remember, Shorthorns are best in every weigh, for beef and milk they can't be beat.

Think of it, 45 Bulls and 30 Females have been entered and will be on hand for your approval and bidding.

Here you will find bulls and females that can mean extra profits for your cattle operations in 1950 and for years to come.

Every animal is Tb. and Bang's tested.

Consignors: J. Dee Shank, Superior, Nebr.; Ernest Retzlaff & Sons, Walton, Nebr.; Henry F. Fausch, Hastings, Nebr.; Elvin E. Britt & Sons, Abilene, Kan.; Alfred Uhrenholdt, Egin, Nebr.; Frank Langer, Webber, Kan.; Martin Corliss, Hebron, Nebr.; J. P. Kenner, Hebron, Nebr.; Hudson Bros., Hubbell, Nebr.; Edward L. Burger, Wilber, Nebr.; C. E. Steward, Panama, Nebr.; Warren Roe, Nora, Nebr.; Carl Dageforde, Hebron, Nebr.; Gerald Schiermeyer, Superior, Nebr.; Verne Heather, Palmyra, Nebr.; Glen McClure, Blue Hill, Nebr.; Blaine Lyne, Superior, Nebr.; Reuben S. Koertner, Biaden, Nebr.; Dale H. Bruning, Bruning, Nebr.; Alvin E. Ten Hulzen, Firth, Nebr.; F. T. Brown & Son, Stamford, Nebr.; Carl Retzlaff, Walton, Nebr.; Reuben Corliss, Hebron, Nebr.; Clyde W. Miller, Mahaska, Kan.; Ernest H. Nemeier, Holbrook, Nebr.; Vern V. Albrecht, Smith Center, Kan.; E. M. Simpkins, DeWitt, Nebr.; and C. E. Norton, Scottsbluff, Nebr.

You can receive a copy of the sale catalog by addressing—

MERVIN F. AEGERTER, Sale Manager, Seward, Nebraska

Warren L. Roe, Nora, Nebr.; J. Dee Shank, Superior, Nebr.; Gerald Schiermeyer, Superior, Nebr.

Auctioneer: **J. E. Halsey, Des Moines, Ia.** Clerk: **George Whitney**

Assisted in the ring by **Col. Alfred Kottmeyer, Superior, Nebr.**

5TH ANNUAL KANSAS-OKLAHOMA SHORTHORN SALE

52 HEAD OF SHORTHORN AND POLLED SHORTHORNS

SELL ON

Thursday, April 6, 1950 — Buffalo, Oklahoma

AT HARPER COUNTY FAIR GROUNDS

Sale Starts at 1:00 P. M.

22 BULLS — 30 FEMALES

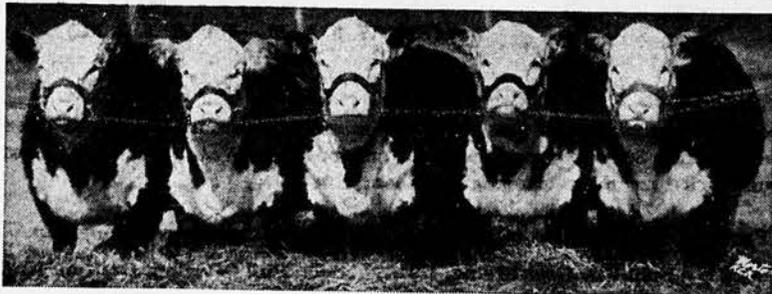
NAME	ADDRESS	CONSIGNORS	No. Head	Male	Female
W. F. CAMPBELL	Helena, Okla.	.....	1		1
C. C. CUMMINS	Kingsdown, Kan.	.....	1	1	4
M. E. GIBBONS & SONS	Deer Creek, Okla.	.....	1	1	1
JOE GERDZILIK	White Deer, Texas	.....	1		1
FRED A. KRULL	Texhoma, Okla.	.....	1		1
J. O. LITTLE	Woodward, Okla.	.....	1		1
LOVE & LOVE	Partree, Kan.	.....	1		1
I. V. MARTIN	Alva, Okla.	.....	1		1
E. O. MCCOY	Deer Creek, Okla.	.....	1		1
JOHN A. MORGAN	Hutchinson, Kan.	.....	1		1
CLARENCE RAISTIN	Mulleeville, Kan.	.....	1		1
GORDON L. RICHMOND	Mooreland, Okla.	.....	2		1
W. A. ROSENBERGER	Greensburg, Kan.	.....	2		1
CALVIN RUTLEDGE & SON	Woodward, Okla.	.....	4		1
ROY RUTLEDGE	Woodward, Okla.	.....	4		1
R. H. SQUIRES	Deer Creek, Okla.	.....	1		1
WALTER SHUMAN & SON	Buffalo, Okla.	.....	1		1
W. W. WAUGH, Jr.	Rosston, Okla.	.....	1		1

Auctioneer: **C. D. Swaffer, Tulsa, Oklahoma**
For catalogs and reservations write, **CARL DOWNING, Secretary, Buffalo, Oklahoma**

D. A. CRAMER DISPERSION
JOHN C. SELL - FRED C. DUEY & SONS
Chester, Nebraska

POLLED HEREFORD SALE

Saturday, April 15, at Deshler, Nebr.



75 HEAD SELL - 20 Bulls - 55 Females

Real Plato Dom 63 (He Sells) Herd Sires Adv. Choice Dom 11 (He Sells)

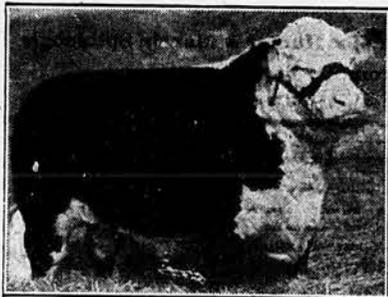
EXCELLENT FOUNDATION HEREFORDS

Complete dispersion of the D. A. Cramer herd consisting of top polled and horned cows from Lull & Diehl, CK Ranch, F. L. Robinson, Orvil and Kenneth Kuhlmann, Ravenstein and Mousel herds. Bulls of breeding age, Bred and Open Heifers and Bred Cows, some with calves at side. Along with breeding from the 2 above herd sires will be Advanced Domino 38th, Aster Domino 4th and WHR Leskan 2d.

For information or catalogs write

D. A. Cramer - Fred C. Duey & Sons
John C. Sell
Chester, Nebraska

MOLZ & SON PRODUCTION SALE



Monday, April 3, 1950
Kiowa, Kansas

AT THE SALES PAVILION

54 HEAD POLLED HEREFORDS
34 Females, 19 Bred Heifers mated to CRR Leskan 4th, 19 Open Heifers.
20 Bulls, 9 Bulls 2 years old by sale day or shortly thereafter, 11 Yearlings.

Herd bulls represented MP Domino 78th, Advance Domino M and CRR Leskan 4th a grandson of WHR Leskan 2nd. These cattle are not fat but are selling to a good advantage to the buyer. They are the good useful kind that have been raised out in the open. Plan now to be with us on sale day.

Write for catalog: ARTHUR J. MOLZ & SON, Kiowa, Kan.



Bigger and Better are the words that best describe the 14th Semi-Annual Consignment Sale of the

NORTH CENTRAL MISSOURI HEREFORD ASSOCIATION

Which will again be held at Modern Fraley Sale Pavilion—12 O'clock Noon
Chillicothe, Missouri - Tuesday, April 4

109 HEAD SELL

62 Bulls—Including 1 3-year-old herd sire and the balance mostly ready for service.
47 Females—Cows and Calves; Bred and Open Heifers. Many popular bloodlines represented in the consignments from 35 herds of this area. Write today for catalog to:

LORS ASHLOCK, Secretary, Chillicothe, Missouri
Auctioneer: Freddie Chandler Don Bowman for this paper



ATTENTION! KANSAS HEREFORD BREEDERS
ST. JOSEPH, MISSOURI, Is the Place!

FRIDAY, MARCH 31, Is the Date!
THE PONY EXPRESS REG. HEREFORD
CONSIGNMENT SALE Is the Event!

To be held at Purebred Livestock Sale Pavilion in So. St. Joseph, Mo.

60 HEAD OF REGISTERED HEREFORDS SELL AT AUCTION
A quality offering consigned by 20 good breeders from 3 states in this area. You will find some exceptionally good females in this sale, as well as herd bulls, yearling bulls and bull calves.

Attention: We can still handle a few more consignments. Mail your entries at once to—
DONALD J. BOWMAN, Sales Manager, Hamilton, Mo.
Aucts.; Cols. Chandler, Wood, Dawson and Merrigan Write for catalog.

Public Sales of Livestock

Aberdeen-Angus Cattle
March 28—U. S. Center Aberdeen-Angus Association, Leonard Patman, Secretary, Smith Center, Kan.
April 5—Southeast Kansas Aberdeen-Angus Breeders' Association, Clarence Ericson, Sale Manager, Savonburg, Kan.
April 11—Mid-Kansas Breeders Sale, Hutchinson, Kan.
April 14—South Central Nebraska Angus Breeders Association, Hebron, Neb. Harold Logan, Sale Manager, Diller, Neb.
April 18—Northeast Kansas Aberdeen-Angus Breeders' Association, Hiawatha, Kan. Harry Dandiker, Secretary, Hiawatha, Kan.
May 9—Sunflower Farms, Swartz Brothers, Everest, Kan.
May 10—Krotz Stock Farms, Odell, Nebr. Sale at Marysville, Kan.
November 9—Kansas State Angus Association, Hutchinson, Kan., State Fairgrounds.
Don Good, Secretary, Kansas State College, Manhattan, Kan.

Guernsey Cattle
March 30—Fred Shamberger, Graham, Mo.
April 24—Missouri Breeders' Association, Columbia, Mo. H. A. Herman, Secretary, University of Missouri, Columbia, Mo.

Hereford Cattle
March 18—Davidale Farms, Boonville, Mo.
March 22—C. M. Sheehy, Richards, Mo. (Sale, Nevada, Mo.)
March 31—The "Pony Express" Reg. Consignment Sale, South St. Joseph, Mo. Donald J. Bowman, Sales Manager, St. Joseph, Mo.
April 3—Arthur Molz & Son, Kiowa, Kan. (Polled Herefords)
April 4—North Central Missouri Association, Chillicothe, Mo. Lora Ashlock, Secretary, Chillicothe, Mo.
April 4—North Central Missouri Association, Chillicothe, Mo. Lora Ashlock, Secretary, Chillicothe, Mo.
April 19—Sutor Hereford Farms, Zurich, Kan.
April 21—Calnon Brothers complete dispersion, McDonald, Kan.
April 21—Fritz Kerbs, Otis, Kan.
April 22—Fritz Kerbs, Otis, Kan. Vic Roth, Sale Manager, Hays, Kan.
April 24—Paul Gladys Molz, Kiowa, Kan. (Polled Herefords)
December 8—South Central Sale, Newton, Kan. Phil H. Adrian, Moundridge, Kan.

Holstein Cattle
April 17—Central Kansas Breeders Spring Consignment Sale, Hutchinson, Kan. T. H. McVay, Manager, Nickerson, Kan.
October 23—Central Kansas Holstein Breeders Sale, Hutchinson, Kan. T. Hobart McVay, Sale Manager, Nickerson, Kan.
November 2—Kansas State Holstein Sale, Herington, Kan. Raymond Bolman Eina, Kan., Chairman of State Sale Committee.

Shorthorn Cattle
April 6—Kansas-Oklahoma Shorthorn Sale, Buffalo, Okla. Carl Downing, County Agent and Secretary, Buffalo, Okla.
April 11—Nebraska-Kansas Shorthorn and Polled Shorthorn Breeders' Sale, Superior, Nebr. Mervin F. Aegerter, Sale Manager, Seward, Nebr.
April 12—Mid-Kansas Shorthorn Breeders Sale, Salina, Kan.
April 18—Alvin T. Warrington, Leoti, Kan., and Donald Pepon, Deerfield, Kan. Sale at Leoti, Kan.

Polled Shorthorn Cattle
April 6—Kansas and Oklahoma Sale, Buffalo, Okla.
April 15—D. A. Cramer Dispersion, John C. Sell, Fred C. Duey & Sons, Chester, Nebr. Sale at Deshler, Nebr.

Milking Shorthorn Cattle
April 5—Ted Schueller & Sons, Jansen, Nebr. Complete dispersion.
April 11—Floyd O. Evert, Forgan, Okla. Roy Paul, Sale Manager, Broken Arrow, Okla.
April 25—National Sale, Springfield, Mo. W. J. Hardy, Secretary, American Milking Shorthorn Society, 4122 South Union Ave., Chicago, Ill.

Hampshire Hogs
April 17—O'Bryan Ranch, Hiattville, Kan.
Duroc Hogs
March 22—C. M. Sheehy, Richards, Mo. (Sale, Nevada, Mo.)
Hampshire Sheep
June 5—North American Hampshire Sale, Oskaloosa, Ia. North American Sheep Breeders, Managers, Oskaloosa, Ia.
Suffolk Sheep
June 5—North American Suffolk Sale, Oskaloosa, Ia. North American Sheep Breeders, Managers, Oskaloosa, Ia.
Sheep—All Breeds
June 23-24—Midwest Stud Ram Show and Sale, Sedalia, Mo. Rollo E. Singleton, Manager, Jefferson City, Mo., care of State Dept. of Agriculture.

PENNEY & JAMES Angus sale, Hamilton, Mo., held on March 6, averaged \$1,757 on 59 lots. Thirteen bulls averaged \$2,467 with 46 females averaging \$1,558. Top bull at \$4,200 went to McHaffey Livestock, Inc., Tendoy, Ida. Marycrest Farm, Maloy, Ia., bought the high-selling female at \$3,600. Both were sired by Eileenmere 487th, Mark Eddy, Wichita, purchased a bull at \$2,000. Roy Johnston and Ray Sims were the auctioneers.

Polled Herefords
A tried sire. Also serviceable-age bulls from our old stand-by bloodlines that has been so reliable and produced so many show winners for us.
Jesse Riffel & Sons
Enterprise, Kansas

Polled Herefords
FOR SALE
Registered Bulls and Heifers 3 to 12 months old.
GEORGE L. RIFFEL & SON, Hope, Kansas

Yearling Polled Hereford Bulls
Sired by Defeo Mischief, Worthmore and Harmon breeding, good individuals, well developed and priced reasonable.
GOERNANT BROTHERS, Ames, Kan.

REG. ABERDEN-ANGUS BULLS
FOR SALE
Serviceable age. From popular families.
JOE JAUERNIG, Route 4, Burlington, Kan.

Beef CATTLE

SEE OUR
POLLED SHORTHORNS
at the
OKLAHOMA-KANSAS SHORTHORN BREEDERS SALE
Buffalo, Okla., April 6
and the
MID-KANSAS SHORTHORN BREEDERS SHOW AND SALE
Salina, Kan., April 12

We are consigning a bull of serviceable age and a bred heifer to each sale. The bulls are by Dale Craftsman x a grandson of Gloster Dale x and Collynie Fascinator x. The heifers were sired by Kiowa Coronet 10 x, sire of the 1949 Kansas Polled Shorthorn Sale Grand Champion heifer, and bred to Oakwood Senator x son of Alpine Sensation x.
Due to the failing health of one member of our firm we are forced to reduce the size of our herd. We are offering 20 head of cows, bred, and open heifers for sale at reasonable prices.

LOVE & LOVE
Partridge, Kansas

Reg. Yearling Shorthorn Bull
For Sale—Red Prince 2506056. He is 21 months old. Color red. Sired by Divide Onward and on the sire side go back to Prince Peter and Brownald Goldspur. His dam is Alice 19th and her sire was Supreme Gift by Browdale Gift. Her dam is a daughter of Proud Nobleman. This bull is a sure breeder as he settled all of the females bred to him the first service. This bull was bred by Julius Olson and was the top-selling bull in one of the North Central Kansas Shorthorn sales. He was a prize winner at 3 fairs. Inquire of RUSSELL KIMBOL, Concordia, Kansas

REGISTERED SHORTHORNS
Bull calves to serviceable ages, also a few choice heifers. Good dark color, best of type and breeding. Sired by the show and breeding bull, Prince William 20th.
GLENN E. LACY & SON, Miltonvale, Kansas

REG. SHORTHORNS FOR SALE
17-month-old Bull, 2 5/8-months-old Bulls.
LEON JOHNSON, Jamestown, Kan.
(5 miles north) Phone 1105 Jamestown

WE WILL PRESENT
Three serviceable age Polled Shorthorn bulls in the Kansas-Nebraska Breeders' Sale, at Superior, Nebr. April 11. Also have a few good ones available at private treaty at the farms.
THE MILLER STOCK FARM, Mahaska, Kan.

In building our new Hereford herd we have selected as herd sire
BHR Helmsman A 7th
5072202 from the Bianchi herd.

He is one of the good sons of WHR Helmsman 87th that has been so important in building the good Bianchi herd. The 87th is possibly the youngest bull in history to be a Register of Merit sire. Our bull stood first in a class of 38 head at the Roundup Sale in Kansas City, Mo., where we purchased him. We have selected as foundation females those that have stood first in their classes at the Roundup and were also the top-selling females. We have purchased the tops in other sales such as the sale of Elmer Johnsons and the John Rhoades Dispersal. We are proud of this group of females. We think as they are mated to this good sire they will produce the kind of Herefords that we are all striving to breed.

Visitors Always Welcome
GLENN I. GIBBS
Manchester, Kansas

HEREFORD and DUROC AUCTION

at the Welty Brothers Sales Pavilion
Nevada, Mo. - March 22
Selling - 10 Duroc Bred Gilts, 10 Duroc Fall Boars, 20 Duroc Open Fall Gilts, 20 Reg. Hereford Bulls of service age, 10 Reg. Bred Heifers.

Write for sale catalog to
C. M. SHEEHY & SON
Richards, Missouri
Auctioneers—Welty Brothers, Nevada, Mo.

SPENCER HEREFORDS

Sires in service CK Royal 3rd, MH Royal Tredway 93rd. We have sons and daughters now of these 2 great bulls in our herd that look like real prospects. The 93rd was top-selling bull at the Flint Hills sale in 1945. Our cow herd is mostly of descendants of Advance Standway cows from the Gordon and Hamilton herd.

Watch for our Dispersion Sale this fall.
JOHN SPENCER
Wetmore, Kansas

HERD SIRE FOR SALE
EVER PRINCE 32nd 1020601
Sired by the great Ever Prince of Luncheon and out of a daughter of Revolution 95th. He is 3 years old. We are retaining his daughters in our herd, therefore making it necessary for us to dispose of him. Here is an opportunity for someone to get a real herd bull. For details write or call CHESTER I. BARE, of Bare Angus Ranch, Protection, Kan.

**You'll Like the Quality and the Bloodlines in the
WARRINGTON--PEPOON
SHORTHORN PRODUCTION SALE**

Tuesday, April 18 at Leoti, Kansas

In the Leoti Livestock Sale Pavilion at 1:00 P. M. (M.T.)

(Leoti is located on U. S. Highway No. 96, midway between Tribune and Scott City, it is on the main line of the Missouri Pacific Railroad between Kansas City and Colorado Springs).



SELLING

- 18 Bulls**
- 12 Cows and Calves**
- 19 Bred Cows and Heifers**
- 5 Open Heifers**

ALVIN T. WARRINGTON, LEOTI, KANSAS, SELLS:

15 Bulls, all strong yearlings and 2-year-olds ready for heavy service and sired by Sni-A-Bar Bondsman, 2320610, by Edellyn Campeon Mercury. 12 Cows, good ages and splendidly bred individuals with husky calves at foot by Sni-A-Bar Bondsman. 11 Bred Cows and Heifers, many of which are mated to Campeon Upright, 2453962, outstanding son of the \$63,000 Perth champion, Pittodrie Upright and out of an own daughter of Edellyn Campeon Mercury. This gives prospective buyers some potent line breeding in the blood of Edellyn Campeon Mercury. 3 Open Heifers, daughters of Sni-A-Bar Bondsman, out of dams by A L Cupbearer and Calrossie Superb.

DONALD PEPOON, DEERFIELD, KANSAS, SELLS:

3 Bulls, sons of Goldspur Sultan; 2 Open Heifers by Sultan's Pride and 7 Bred Cows, daughters of Double Minstrel and Sultan's Pride and all mated to Dale Harvester, grandson of the Ohio junior champion, Maxwalton Harvester.

All the cattle sell Tb. and Bang's tested and can go into any state. This is one of the last opportunities of the spring sale season to buy well bred, well developed Shorthorns at auction in this area. These cattle are all heavy boned, thick, rugged, good doing individuals, the bulls are ready for heavy service in purebred and commercial herds and most of the females are the close to profit kind.

For the catalog and other details, address:

MERVIN F. AEGERTER, Sale Manager, Seward, Nebraska

Auctioneer: Bert Powell, Topeka, Kan. Mike Wilson for Kansas Farmer

**MID-KANSAS SHORTHORN BREEDERS
SHOW AND SALE**

Wednesday, April 12, 1950 - Salina, Kan.
SALINE COUNTY FAIRGROUNDS

SHOW AT 9:00 A. M. - SALE AT 1:00 P. M.

Auctioneers: Bert Powell and C. D. Swaffar Mike Wilson with Kansas Farmer
Carl Retzlaff, Walton, Nebr., Judge

SELLING 74 HEAD - 51 Top Bulls, 20 Beautiful Females

(Shorthorn and Polled Shorthorn)

The best lot of registered Shorthorns ever offered at these reliable sales. Strong herd bulls, bulls for commercial breeder, farmer and rancher, two year olds, yearlings and a few outstanding bull calves. The females include cows with calves at foot, bred and open heifers. Consigned from the strongest herds in Kansas featuring the most popular bloodlines of the breed. Remember, Shorthorns are best in every weigh, for beef and milk they can't be beat. Think of it, 51 Bulls and 20 Females have been entered and will be on hand for your approval and bidding.

CONSIGNORS

	Bulls	Females
Milton Nagely, Rt. 3, Abilene	1	0
Henry Dietz, Wakeeney	3	0
Arthur Nelson, New Cambria	2	2
N. E. Bert, Detroit	0	1
E. C. Lacy, Miltonvale	3	2
Glen E. Lacy & Son, Miltonvale	1	0
Walter A. Hunt, Arkansas City	1	0
Kansas State College, Manhattan	2	0
R. M. Collier & Son, Alta Vista	2	2
Will T. Molyneaux, Palmer	1	1
R. C. Hotchkiss, Leon	3	1
J. W. Mies & Sons, Colwich and Goddard	1	1
W. A. Young, Jr., Clearwater	2	2
Arthur R. Walts, Cassoday	1	1
Love & Love, Partridge, (Polled Shorthorn)	1	1
Mr. and Mrs. Webster G. Olson, Clements	1	3
McElrath Bros., Kingman	2	1
D. A. Reusser, Wellington	4	2
Lundstrom Bros., Lindborg	1	1
Adam Dietz, Galatia	1	1
Clarence Garten, Rt. 4, Abilene	1	1
Tindell Bros., Burlingame	1	3
Marlin M. Wedel, Rt. 2, McPherson	1	1
M. V. Harshman & Son, Clements	2	1
George J. Wetts, Andale	1	1
Tomson Bros., Wakarusa	3	4
Clarence Shirk, Sedgwick	1	1
Guy Chapin, Kinsley	1	1
R. L. Boch, Larned	1	1
Emerson S. Good, Barnard	2	1
Ralph L. Bayles, Garrison	1	1
Ed Visser, Riley	1	1



Here you will find bulls and females that mean extra profits for your cattle operations in 1950 and for years to come.

Every animal is Tb. and Bang's tested. Learn more about this fine offering by writing today for the catalog.

Address - **MERVIN F. AEGERTER, Sale Manager, Seward, Nebraska**

Sponsored by

MID-KANSAS SHORTHORN BREEDERS' ASSOCIATION

President, Arthur Nelson, New Cambria Vice President, Milton Nagely, Abilene
Secretary-Treasurer, Grant Seim, New Cambria John C. Sauerwein, Salina Ch. of Com.
Sale Committee: J. H. Bowser, Abilene; Earl Stoffer, Abilene; Carl E. Peterson, Assaria

**PLAN TO ATTEND THE
U. S. CENTER ANGUS BREEDERS'
5TH ANNUAL SHOW and SALE**

MARCH 28, 1950

AT

SMITH CENTER, KANSAS
Show at 9 A. M. - Sale at 1 P. M.



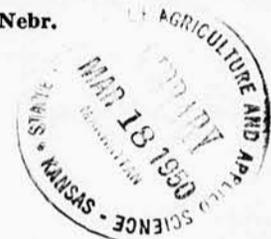
**Selling 68 Head of Registered Angus
12 BULLS—56 FEMALES**

Sale will be held in a heated Sale Pavilion.

Sale Headquarters ERDMAN HOTEL, Smith Center

CONSIGNORS:

- BIG OAK STOCK FARM, Julius Deters, Cawker City
- BILLINGS ANGUS FARM, Alton
- A. O. BUSCHOW & SONS, Blue Hill, Nebr.
- G. W. CALDWELL, Harlan
- J. F. CALDWELL, Harlan
- HERMAN CUSTER, Riverton, Nebr.
- HARRY R. DANNENBERG, Gaylord
- VERNON HILL, Logan
- T. W. JACKSON, Phillipsburg
- C. A. KALBFLEISCH, Harlan
- FRANK KRAL, Bladen, Nebr.
- E. H. KREFT, Natoma
- ELMORE D. NELSON
- ALVIN J. OTTE, Cawker City
- LEONARD PATMAN, Smith Center
- MAX D. REMUS, Cawker City
- SUND BROTHERS, Boswick, Nebr.
- JULIUS TILLMAN, Smith Center
- JOE S. VAGUE, Bloomington



Bids mailed to the Secretary, Auctioneer or Fieldmen will be conscientiously handled. For your sale catalog write

LEONARD PATMAN, Secretary, Smith Center, Kansas

Judge of the show: John Tolan, Springfield, Ill.

Auct.: Ham James, Newton, Ill. Mike Wilson for Kansas Farmer

FIFTH ANNUAL SPRING SHOW and SALE

Southeastern Kansas Aberdeen-Angus Breeders

SHOW AT 9:00 A. M. - SALE AT 1:00 P. M.

Phil Ljungdahl, Sunbeam Farms, Judge

**Selling 69 Head of
Selected Registered Aberdeen-Angus
33 BULLS - 36 FEMALES**



The sale offering has a selected lot of well bred, good type, and good conditioned Aberdeen-Angus cattle. Including herd bull prospects and top quality foundation females from the best herds in eastern Kansas. Come expecting to find good offerings—You'll not be disappointed.

Wednesday, April 5, 1950 - Iola, Kan.

FAIR GROUNDS

Consignors:

- ROBERT A. FINNEY
Winsted Stock Farm, Humboldt
- CLARENCE C. ERICSON & SON
Double X Bar Ranch, Savonburg
- CLIFFORD C. GOODRICH
Elmdale Stock Farm, Columbus
- A. J. GORGES
Gorges Angus Farm, Fall River
- L. F. GORGES
Creek Valley Farms, Fall River
- PECKMAN BROTHERS
Paola
- PERKINS & SON
Mulberry
- JOE JAUERNIG
Burlington
- M. R. WREN
Miltona Farm, Williamsburg
- A. B. GILFILLAN
Redfield
- FRANCIS I. PERRIER
Dalebanks Farm, Eureka
- RUSSELL SIMMONS
Rolling Acres Farm, Severy
- SIMMON-STEWART-SIMMON
Triple S Angus Ranch, Rosalia
- DODSON BROTHERS
Wichita
- RAY F. KOONTZ
Sunrise Valley Farms, Ottawa
- HUDELSON BROTHERS
Pomona
- W. C. KEITH & SONS
Burlington
- R. J. MORGAN & SONS
Pleasant Valley Farm, Greeley
- CHARLES W. WATSON
Westphalia
- FRED OPLONIK
Girard

"Breeding as Good As Can be Found Anywhere"

Dinner and business meeting at Iola, Tuesday evening, April 4, for all interested. Send dinner reservations to the sale manager, as soon as possible, please.

SOUTHEASTERN KAN. ABERDEEN-ANGUS ASSN.

For catalogs write CLARENCE C. ERICSON, Sale Manager, Savonburg, Kan.
Ray Sims, Auctioneer "Mike" Wilson for the Kansas Farmer

Mid-Kansas Aberdeen-Angus Annual Field Day

FRIDAY, MARCH 24TH

STARTING AT 9:30 A. M.

DEER HILL ANGUS FARM

3 miles south, 1 mile west of

LITTLE RIVER, KANSAS

DON GOOD, Judge

We invite you to this popular event. See the kind of cattle that are making Mid-Kansas herds better every year. Join in the judging contests, visit with fellow breeders. This is a big day for Kansas Aberdeen-Angus.

MID-KANSAS ABERDEEN-ANGUS BREEDERS' ASSOCIATION

Fred Schultis, Great Bend, President

Phil Sterling, Canton, Secretary

Your Best Buy Today Is U. S. Savings Bonds

**FOR SALE
REGISTERED POLLED
HEREFORD HEIFERS**

12 months to 25 months old. Sired by A.F. Beau Rollo 4th and from cows with popular bloodlines. GRAND VIEW STOCK FARM, Polled Herefords since 1908.
O. J. SHIELDS, Lost Springs, Kansas

**AMERICA'S FASTEST GROWING
BEEF BREED**

Proof of the profit-making ability of Angus cattle is the rapid growth of this modern breed. In 1949 the Angus breed was the only major beef breed showing increases in both registration and transfers of purebred cattle. For information write Dept. KF, AMERICAN ABERDEEN-ANGUS BREEDERS' ASSOCIATION, Chicago 9, Illinois





WAYNE KING, "THE WALTZ KING," is one of America's most popular entertainers. He is also one of Standard Oil's best salesmen—and one of the reasons why our employees' jobs are stable and well-paid. His weekly Standard Oil television show is a delight to see and hear.

MORE THAN SWEET MUSIC COMES FROM THIS HORN

What happens when Wayne King sells you on trying Standard Oil products?

All down the line, there's work for people to do. The Standard Oil agent delivers the products to your farm and the service station where you trade. Our refinery men send more products to the agent's bulk plant. Our pipeline men pump more crude oil to the refinery. Our drillers bring more oil to the surface.

Working together as an integrated team, the 46,700 employees of Standard Oil and its subsidiary companies are able to make

more products, make them better and make them more readily available, than would otherwise be possible. The more we sell, the more people we need to make more products. Our present employees become more secure in their jobs, and new jobs open up.

Good products *plus* good salesmanship are an unbeatable combination that helps make our country great and the American standard of living the highest in the world. *Everyone has a chance to earn more by producing more.*

STANDARD OIL COMPANY (INDIANA)



ARCHIE DAILEY is a member of one of our drilling crews. Our cost of finding crude oil has gone up 389 per cent in the last ten years. Yet because of the progress of the oil industry, you now pay only 45 per cent more for gasoline than you paid in 1940.



W. F. MICHAEL works at our Drumright, Oklahoma, pipeline pumping station. He helps keep crude oil flowing from the wells to our refineries, along a Standard Oil network to which many miles of new pipelines were added in 1949.



CHARLES QUINN is a catalytic cracker stillman at Standard Oil's Sugar Creek, Missouri, refinery. Like each of our 46,700 employees, he is backed by a big investment in tools and equipment. This was made possible by the investment of our 96,800 owners.



J. H. SCHAEFFER, agent, runs our Chesterfield, Missouri, bulk plant. He delivers the finished products of our refineries to farms, to industry and to the independent service stations where they are sold to you and millions of other Standard Oil customers.