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of 2

# Kansas Farmer

CONTINUING MAIL & BREEZE

FEBRUARY 19, 1949



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# NEW SUPER-SURE-GRIP

## saves days on tough jobs like these!



### Plowing Wet Ground

New Super-Sure-Grips kept tractors going under heavy drawbar loads on slick, slippery fields where other tires stalled! Extra traction from Super-Sure-Grip's deeper, wider o-p-e-n c-e-n-t-e-r tread speeds spring plowing.



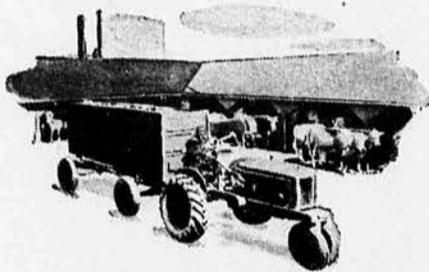
### Manure Spreading

Tractor on other tires couldn't pull fully loaded spreader. With Super-Sure-Grips, it pulled same load fast and easy! Massive, square-shoulder lugs of Super-Sure-Grip extend traction area full width of tire for surer, stronger pull!



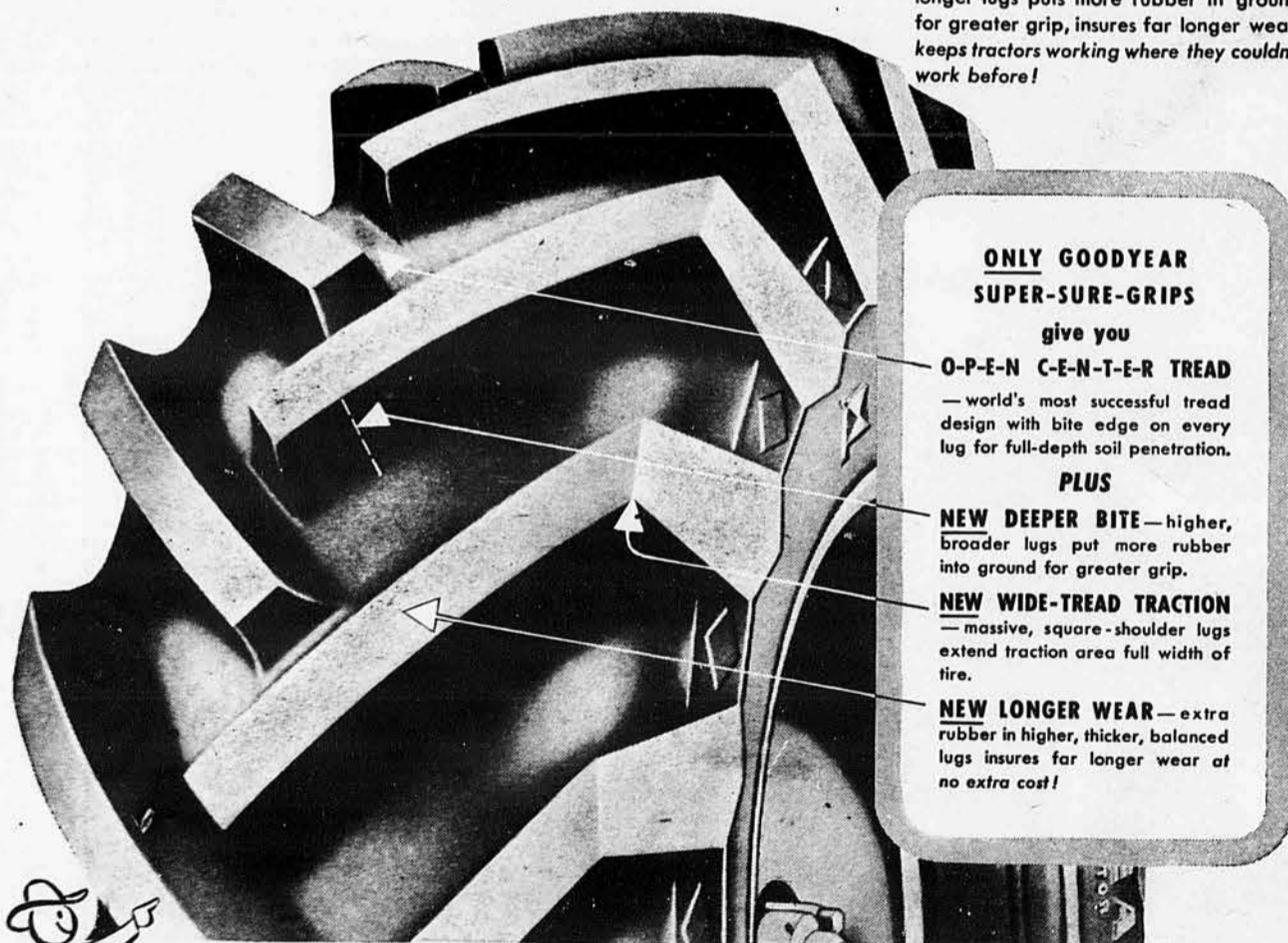
### Turning over Cover Crops

Big tractor hitched to four 18-inch bottom plows couldn't get traction on green cover crop of sweet clover. With Super-Sure-Grips, same tractor on same job pulled sure and steady, even with 4,000 lbs. pull at the drawbar!



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Tractor equipped with Super-Sure-Grips pulled loaded feed wagons through deep snow where other tires slipped to a complete bog-down! Extra rubber in bigger, longer lugs puts more rubber in ground for greater grip, insures far longer wear, keeps tractors working where they couldn't work before!



#### ONLY GOODYEAR SUPER-SURE-GRIPS

give you

#### O-P-E-N C-E-N-T-E-R TREAD

— world's most successful tread design with bite edge on every lug for full-depth soil penetration.

#### PLUS

**NEW DEEPER BITE**—higher, broader lugs put more rubber into ground for greater grip.

**NEW WIDE-TREAD TRACTION**—massive, square-shoulder lugs extend traction area full width of tire.

**NEW LONGER WEAR**—extra rubber in higher, thicker, balanced lugs insures far longer wear at no extra cost!



# GOOD YEAR

## Super-Sure-Grip Tractor Tires

Super-Sure-Grip—T.M. The Goodyear Tire & Rubber Company

### Balance Fertilizer For Soil Needs

**B**ALANCE seems to be important in the use of fertilizer. That point was emphasized in Lyon county in 2 fertility test plots, reports R. Warren Rhodes, county agent. And a knowledge of your soils also is important to achieve that balance.

On the Carl Herrick farm a nitrate test plot was established on wheat. The test was located in comparatively poor soil. It was rolling land that had been in small grain and row crop several years without any legume. Mr. Herrick purchased the farm only a few years ago.

Mr. Rhodes made simple phosphate tests of the soil. There was scarcely even a tinge of blue in the test, he says. That indicated available phosphate in the soil was extremely low, almost negligible.

Wheat was top-dressed with ammonium nitrate early in April. The check plot yielded 32.8 bushels and tested 58.3 pounds a bushel. Addition of nitrate reduced yield and test weight as follows: 75 pounds nitrate, 23.2 bushels yield, 57.6 pounds test; 150 pounds nitrate an acre, 18.5 bushels yield, 57.9 pounds test; 225 pounds nitrate, 26.3 bushels, 57.9 pounds.

In contrast, a similar plot was established on the Ralph Shields farm. Soil here was naturally higher in phosphate, and phosphate had been added a year or two before on legumes. Check plot on the Shields farm yielded 29.5 bushels an acre and the test was 59.3 pounds. Nitrate top-dressing helped as follows: 75 pounds nitrate, 40.8 bushels yield, 59.7 pounds test; 150 pounds nitrate, 43.1 bushels, 60.2 pounds test; 225 pounds nitrate, 41.2 bushels and 59.6 pounds test weight.

### Sprays the Fire

Spraying cattle is the main job for the Farm Bureau-owned spray truck in Wilson county. But several times it has doubled as a fire truck, too. About 30,000 head of cattle were sprayed with this truck last year. And Harry Davis, Jr., who operates the truck, says he has helped douse quite a number of grass fires between cattle-spraying runs.

Altho fire fighting was not in mind when the truck was purchased, it does come in handy for that purpose. It has a capacity of 400 gallons of water and 800 pounds of pressure.

Mr. Davis says he doesn't make a business of fighting fires. But the word seems to have gotten around. Recently he was called out of bed at 3 o'clock one Sunday morning to help save a farm home. A smokehouse nearby was burning and threatened the residence. Mr. Davis came to the rescue. He doesn't take all the credit for saving the home, but at least he helped.

A few weeks ago a car caught fire on one of the highways running thru the county. He was called out to help save it. But the truck does the best job with grass fires. Running alongside the burning grass, fire can be doused over a large front in a short time.

### Senator Capper on Radio

Every Sunday afternoon at 3:30 o'clock Senator Arthur Capper discusses national questions over WIBW radio station.

## KANSAS FARMER

Continuing Mail & Breeze  
Topeka, Kansas

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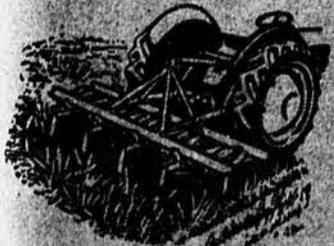
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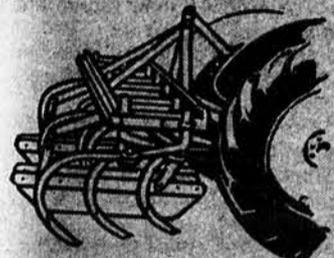
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### A few of the many FERGUSON IMPLEMENTS for Finger Tip Farming



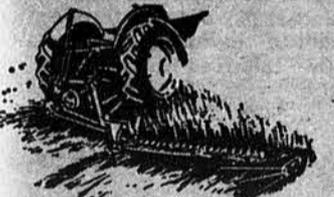
**Tiller**—For fast, economical seedbed preparation. 7' wide; 7 or 9 tines and one-inch spacing adjustments.



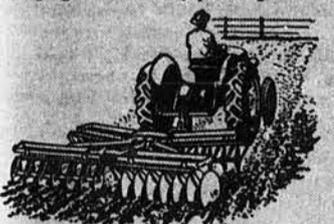
**Row Crop Cultivator (Spring Tine)**. Cultivates two, three or four rows spaced from 42" to 16" apart. Easily converted to 7' field cultivator. One-minute attachment, with Finger Tip Control of working depth.



**Grader and Terracer**. For earth moving and soil conservation work. 72" blade angles to right or left. Tilts 22½ or 45 degrees. Blade 12½" high, 4" removable cutting edge.



**Mower**. 5-minute attachment. 6' or 7' cut with automatic safety release "break back" and Finger Tip Control of cutter bar for backing and clearing. "Live" rubber bushings and Ferguson Linkage gives smooth, quiet operation.



**Tandem Disc Harrow** eliminates ridging, overdiscing headlands and mounding on turns. Gangs regulated by Ferguson Finger Tip Control.

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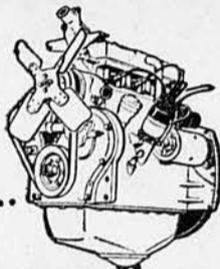
How can a tractor so compact, so easily handled, put forth so much power for the heavy jobs? *Two* reasons!

**First**—is the Ferguson System of Linkage and Hydraulic Control. It takes advantage of natural forces in linking implement to tractor, making them *one* single "self-propelled" unit, and automatically increasing traction for the harder pulling. At the same time, the work of raising, lowering, carrying and controlling depth of the implement is done for you, hydraulically.

**Second**—This power, so fully utilized, is supplied by the "farm-type" overhead-valve engine of Ferguson and Continental Motors design. Engineered and built for low operating cost, with further savings from the longer hours of running on the many different *kinds* of work the new Ferguson can do.

Together, this combination gives you a farm machine with more than enough power, yet easily controlled, flexible for the wide range of farm requirements.

Whether you judge tractor performance by how *easy* it makes your work, the *time saved*, or by how much it lowers your *cost of production*, ask your friendly Ferguson dealer for a demonstration. You'll find the New Ferguson is the modern farm machine for you.

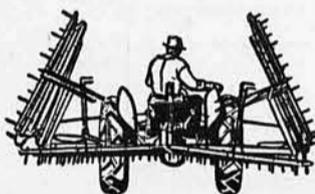


### A MISER ON FUEL

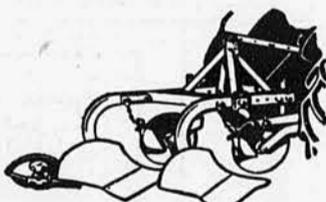
Exceptionally high torque at low engine speeds often lets you use third gear when you would expect to need second. Rugged, heavy-duty construction with drop-forged crankshaft; long-skirted, cam-ground aluminum alloy pistons; "wet" sleeves fully water-jacketed; full pressure lubrication and precision manufacture—an engine built to "take it"!

*It's the FERGUSON SYSTEM that makes the difference!*

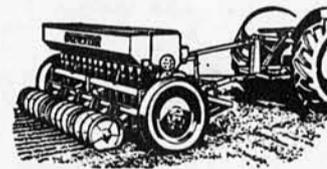
### FERGUSON IMPLEMENTS FOR FINGER TIP FARMING



**Spike Tooth Harrow**. 17', 6" cut and two-minute attachment. Lifted and carried on tractor linkage. Outer sections fold up, latch in place. Stabilizer rods allow fast turns on headlands and easy control of implement.



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# THE NEW FERGUSON TRACTOR

## AND FERGUSON SYSTEM IMPLEMENTS



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# These Milking Parlors Help Produce Grade-A Milk

By Ed Rupp

**W**HAT kind of milking parlor are you going to build? To help you decide, here are drawings and pictures of milking parlors in use by top dairymen in Kansas.

These grade-A parlors are becoming popular in certain dairy regions of the state. Their popularity seems to follow closely on the heels of increased demand for quality milk. Each year more cities are demanding higher-quality milk. But there is more to it than that.

In the last few years of high cattle prices, dairymen have found it wise to sell their old cows and poor producers for meat. High meat prices gave them a chance to hedge against a possible break in milk prices.

The result has been a decrease in the numbers of cows for milk since the peak of 1945. But dairymen now are in better position to produce milk more efficiently with the cows they have. They are in a position to expand herds with efficient producers.

Altho cow numbers are low, the average age of these cows is low, too. And quality of replacement heifers seems to be high.

Couple that picture with the fact that grade-A milk brings from \$1.50 to \$2 a hundred more than ordinary grade-C milk. It adds a rosy hue to the dairy picture in Kansas. And at present numbers, grade-A producers are unable to meet market demands the year around. Each winter some quality milk must be imported. And usually that milk is brought in from dairy states with less favorable winter milk-producing climates than ours.

But from the producing angle alone, these little milking parlors are able to stand on their own feet. Dairymen who have used them cite several advantages over the old type of dairy barn that had a stanchion for each cow on the farm.

In the first place milking parlors are less expensive to build because they are small. Because they are small, less time and labor are required to

keep them clean—up to grade-A standards. Here is another point for the milking parlor: Existing barns usually can be converted at small cost into loafing barns or shelter.

When building your milking parlor it would be wise to meet maximum standards. Don't build just to meet the minimum standards in your area at the time of building. This is important because health authorities are getting more and more strict rather than more lenient. If your parlor just "gets by" now you may have to do it all over again in a few years at great expense.

Most dairymen who are building milking parlors are looking ahead to future regulations more strict than those in force now.

J. H. Foulk and Sons, Montgomery county, looked ahead when they built their milking parlor more than a year ago. Their dairy barn meets all present grade-A requirements but was made flexible so it could be easily changed.

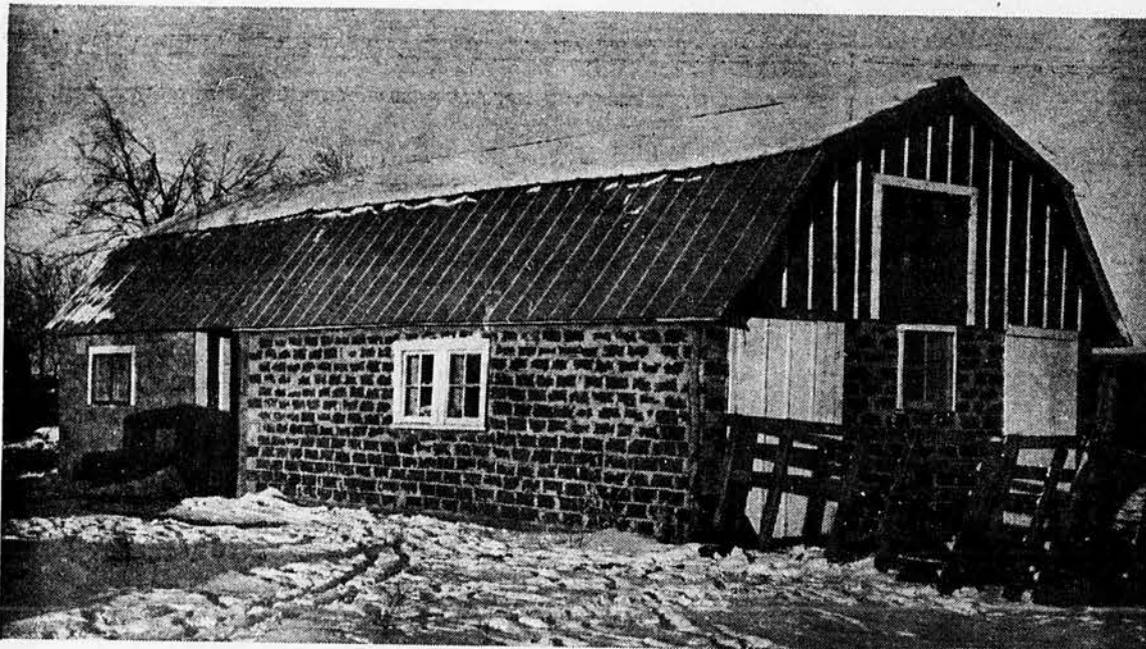
Should specifications for space in front and behind cows in stanchions become more strict, they will be able to meet the requirements. They also provided at least 4 square feet of window for each cow. Should the demand ever be greater, they quite easily can add more windows.

Three sons are taking an active part in the operation of this 240-acre dairy farm. They are Willard, John and Lester. Lester drives a truck on a Coffeyville milk route and contributes only part of his time to the farm work.

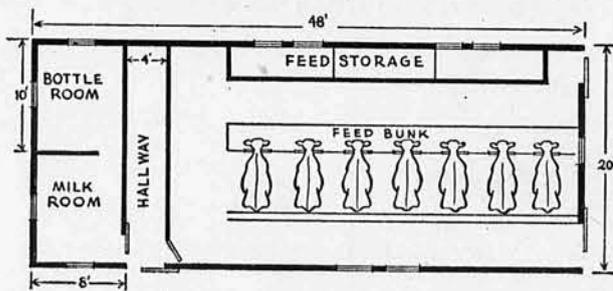
Altho they are milking only about 20 cows now, they built a 9-stanchion milking parlor. They intend to increase the number of cows to about 50 in the next few years. Now they are using only 2 milking-machine units and could get along with fewer stanchions. But, after increasing their herd size, they plan to add 2 more units and then will need all 9 stanchions.

The Foulk milking parlor measures 48 by 18 feet. A milk room is attached to the main part of the structure. Its size is 20 by 20 feet and gives the building a "T" shape. Between the milk-storage area and the milking room is a 4-foot areaway that provides double-door separation and storage space for machinery and tools. A feed-storage room is located at one end of the milking room. A dust-tight door connects this feed room with the areaway in front of the

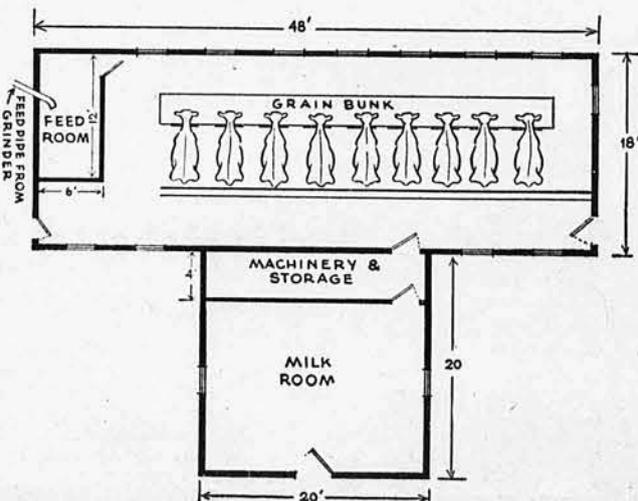
[Continued on Page 34]



Single-row milking parlor (above and right) that is very convenient. It was built last year by E. J. Helton and Sons, Montgomery county. The hallway can be converted into a feed room, if necessary. The exterior will be stuccoed to add attractiveness.



This 9-stanchion milking parlor (2 lower pictures) on the J. H. Foulk farm, Montgomery county, will provide sufficient service for about 50 cows. Note feed pipe at left in drawing. Feed is blown from grinder above loafing area direct to feed-storage room in milking parlor.



# Farm Matters

## AS I SEE THEM

**M**Y INFORMATION from Washington is that the Department of Agriculture has a staff working on plans for a return to farm production controls in 1950. And that acreage allotments and marketing quotas are regarded in Department circles as almost certain for wheat, corn and cotton. Unless, of course, adverse weather conditions should cut production sharply. Production and Marketing Administration state officials are to be called to the national capital soon for consultation.

According to Fred Bailey, editor of the Washington Farm Reporter, top priority will be given to consideration of wheat allotments and quotas, the first on which a decision will be made. The decision does not have to be made until the end of June, when the approximate size of the 1949 winter wheat crop will be known, and the spring crop can be estimated with fair accuracy.

Present estimate of the Bureau of Agricultural Economics, as reported in the February 13 issue of BAE's "Demand and Price Situation," is this:

"The supply and disappearance of wheat for the year ending June 30 (next) are now estimated as follows: Total supply 1,484 million bushels, consisting of July (1948) stocks of 196 million bushels and a crop of 1,288 bushels. Total disappearance, 1,185 million bushels, consisting of about 490 million bushels for food, 95 million bushels for seed, 100 million bushels for feed, and estimated exports of 500 million bushels."

July-December exports totaled 271 million bushels. If exports for the year total 500 million bushels, the carryover July 1, 1949, should be about 300 million bushels, which compares with 235 million bushels for the 1932-41 average, and the record large carryover of 631 million bushels in 1942.

The carryover last July 1 was 196 million bushels. An export of 500 million bushels next marketing year (1949-50) would have to be even more heavily subsidized than this year, the way things are going. Indications are that from now on our Government payments (contributions) to the recovery of Europe will be proportionately larger and larger for military purposes, with less emphasis on food.

In the same publication the BAE paraphrases the President's budget message to note that expenditures for international affairs are scheduled to drop from \$7,200,000,000 to \$6,700,000,000, but—"Additional funds of undetermined amount may be requested for military aid to Western Europe."

The extent to which American agriculture, industry, labor and business generally are becoming dependent upon Government payments for their living is indicated by the following: If Congress appropriates to cover the President's budget, Federal cash payments for the calendar year 1949 will total some \$44,300,000,000, compared to \$17,750,000,000 the first half of 1948 and \$19,350,000,000 the second half.

"The increase in Federal expenditures expected this year," comments the BAE, "would be an important force in the domestic economy. It would be large enough to offset a moderate decline in private spending and still maintain activity close to present levels. In some industries, such as metals, the impact of the growing defense program may cause prices to rise further."

"Expenditures for the European Recovery Pro-

gram and other foreign aid are expected to be larger in the calendar year 1949 than last year. This is likely to maintain an important outlet for increased supplies of export farm products."

What that signifies is just this: Government thinking in Washington is that the present "inflation prosperity" can be maintained only by (1) increased Government payments to individuals in the United States; (2) increased Government payments for military defense of the United States; and (3) increased U. S. Government payments for foreign aid and especially for military expansions by foreign governments, particularly to the governments of Western Europe.

In other words, Administration thinking is that prosperity for America must be based on a continuing war economy. That is the kind of thinking in government that trapped the people of Germany, Italy, and Japan, and which resulted in catching the people of much of the rest of the world in the same trap.

In my judgment it is not a healthy way to promote prosperity.

### Health Action Coming

**I** AM glad to see so much interest in rural health. Specifically, interest in better health services for farm folks. Doctors, nurses and hospitals are seriously lacking. I don't need to tell any farm family that. But perhaps you might be interested in a few facts on the subject.

Kansas, by the way, is no exception. We are no worse than the other states. But a goal for us to reach could well be to beat other states; at least show improvement over our present rural health set-up.

From various good sources, I learn that Kansas has 30 per cent fewer doctors now than we had back in 1906. In that year our population was put at 1,544,968 and we had 2,732 physicians. But in 1948, we had only 1,900 physicians to care for a population of 1,900,000. That is about a 25 per cent increase in population, but a 30 per cent decrease in the number of doctors to take care of us.

Here is a further disquieting fact, brought to light by the Kansas Medical Society. Back in 1906, some 50 per cent of our physicians were practicing in communities of 1,500 or less—rural communities—while in 1942 only 28 per cent of the doctors were in these rural communities. And, unless I miss my guess, there are still fewer doctors serving small towns and farming areas in 1949 than there were in 1942.

I realize it is easier for doctors to cover more territory now than they could 45 years ago. I also know farm people, with their motorcars, can travel longer distances to see a doctor. But even that wouldn't make up for the serious loss of doctors in rural communities.

I am told the Kansas Medical Society has requests on file for physicians from more than 70 Kansas communities. Now, we either are not producing enough medical doctors in our Kansas schools, or too many we do produce are entering practice away from smaller communities—perhaps even out of this state. Apparently what must be done is to in-

terest more doctors in the possibilities in rural communities.

Now, something probably can be done in many rural areas, similar to action taken by one Kansas community I have in mind. That community simply got together on the problem and made such an attractive offer they got their doctor.

That is a very healthy way to get the job done, too. It is the kind of rugged individualism that built this country—something this country needs to keep it from becoming very, very sick.

Whether enough communities can do that to correct a serious situation remains to be seen. There is a difference of opinion. But apparently the problem is working up to a point where rural communities must decide whether they will go ahead on their own, or whether Government will enter the picture. Let me offer this as evidence:

The first few days this month, a national conference on rural health was held in Chicago. That in itself indicates the seriousness of the rural health problem. At that time, one speaker said: "If a satisfactory program for rural health facilities is not worked out by the people themselves, it is a fairly safe assumption that one will be developed by an act of Congress to be administered by the Federal Government. To me, this is a socialized medical care of the worst sort. If medical service can be made available only by act of the national Congress, it is my opinion that we have made the first step toward completely controlled social and economic life, and will have given up the right to take free action in this country."

A Farm Bureau spokesman expressed opposition to a national compulsory health insurance program. Said he: "We favor voluntary plans providing medical, health, dental and hospital insurance. We urge that facilities of medical schools be expanded and every effort be made otherwise to train more physicians, surgeons, dentists, nurses, technicians and general practitioners and public health doctors . . . national compulsory health insurance programs in England, Austria and Germany have in no way solved the health problem."

A National Grange spokesman said his organization recommends: "That the principle of contributory health insurance be the basic method of financing medical care for the large majority of American people, accompanied by such use of tax funds as may be required to: (a) provide services which are public responsibilities; (b) supplement health insurance as necessary to provide adequate services for the whole population."

A Farmers Union spokesman urged a Department of Human Resources in Government. "Such a department would have Cabinet standing, with a Secretary of Human Resources, exactly as we have a Secretary of Agriculture . . . the Farmers Union favors scholarships or Federal aid to medical colleges so there may be more medical colleges, more hospitals."

All of this indicates the keen, active interest in solving the rural health problem. I suggest you talk it over with your neighbors and see what you want done and how you wish to accomplish it. The final answer is pretty largely up to you and your neighbors and your farm organizations. I would like to hear what you think about this.

*Arthur Capper*  
Topeka.

## Having Trouble Over Farm Price Supports

By CLIF STRATTON

Kansas Farmer's National Affairs Editor

**I**T WILL be pretty late this session of Congress before any major legislation is enacted.

The Truman-Brannan Administration (Charles Brannan is Secretary of Agriculture) is having trouble working out a satisfactory substitute for the Aiken-Hope act, which becomes effective next January 1, unless Congress decides otherwise.

Farm organizations are as little certain of just what they want in the way of Government supports and Government controls as the Administration.

And farm markets and prices for the near future do not present any clearer picture than the Administration and

the farm organization leadership can see.

Washington forecasters, in and out of government, seem afflicted with double vision. Dancing before their economic eyes are visions of inflation and deflation; continuing "boom" thru increased Government spending, impending mild "bust" from dammed up economic forces threatening to overflow.

Farmers are going thru the painful process of feeling the squeeze down toward present support price levels from

the above-parity prices and incomes of war and immediate postwar years.

In terms of net national farm income: \$17.6 billion in 1947; down to \$17.2 billion in 1948 (drop in last 5 months of year); probable 1949 net income, between \$15.5 and \$16 billion.

Grain prices took their first licking starting 13 months ago; livestock prices are taking theirs during the winter months; fats and oils ditto, grains a second one. Some relief for fats and oils prices is expected by Department

of Agriculture and Congress thru lifting, or at least tilting measurably, the export controls that plugged up surpluses in the United States while the rest of the world is crying for more fats and oils.

Summary picture on farm prices overall from the Bureau of Agricultural Economics looks like this:

The index of prices received (1909-14 base period equals 100)—307 per cent of base period January 15, 1948; 268 December 15, 1948; again 268 January 15, 1949; record high, 307 in January, 1948.

Index of prices paid, including inter-

(Continued on Page 36)

"Speedy Sprayer is the best investment in farm machinery I ever made," says

**HOWARD TRIGG**  
Baltic, South Dakota



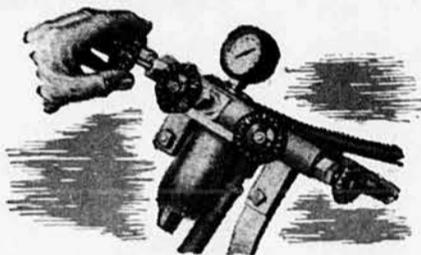
Available with 24 or 30 foot booms

## AMAZING TROUBLE-FREE ACTION



Available in Trailer Model

**EXCLUSIVE FINGERTIP CONTROL SAVES TIME AND MONEY**



"I'm not a lazy man," explains Mr. Trigg, "but the new SPEEDY fingertip control manifold saves me valuable time. By a turn of easy-to-reach handles, I can control all sections of the spray booms without leaving the tractor seat."

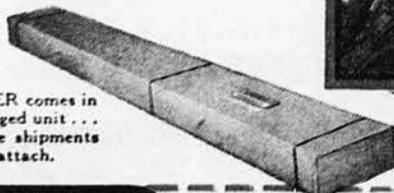
Easy to clean filter screen is built into the manifold. Pressure gauge assures accurate, controlled spraying at all times. Self-regulating pressure unit assures constant penetrating spray.

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The new SPEEDY SPRAYER fits all tractors by simply attaching two adjustable frame mounts, then merely inserting and tightening four bolts.

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Corn Exchange Bldg., Minneapolis 15, Minnesota  
Please send me full descriptive literature.

Name.....

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City..... State.....

## What Dairymen Asked

### Questions Answered During Agricultural Week

**W**OULD you like answers to some of your dairy problems? Most dairymen would. That is why the question and answer period at the annual dairy meeting during Agriculture Week, in Manhattan, is one of the favorite programs of the week.

Here are some of the questions dairymen asked during the 1949 meeting, with the answers as given by members of the Kansas State College dairy husbandry staff.

**Question: Is grass silage practical?**

**ANSWER:** Yes, if you use it as a planned crop like you do sorghum silage. It is not too practical if put up as a catch-crop because of storage conflict with other feeds.

**Q: What are the relative merits of alfalfa and sweet clover silage?**

**A:** Alfalfa gives the most consistently good silage.

**Q: What causes sweet clover disease when feeding sweet clover silage?**

**A:** Sweet clover disease is due to feeding spoiled silage.

**Q: Is it good practice to feed hormones to dairy cows to increase milk production?**

**A:** It is possible to increase production during the latter part of the lactation by feeding hormones, but hormones speed up all body processes and may cause eventual harm. It is illegal to feed hormones to cows on official testing.

**Q: Can you get as much milk production by once-a-day grain feeding as by twice-a-day?**

**A:** Yes. The main object is to get the most total consumption by whatever method works best in your herd.

**Q: Is there danger of artificially bred heifers producing non-breeders after several generations?**

**A:** No.

**Q: Will artificial breeding cause a cow to become a shy breeder later?**

**A:** No.

**Q: Will artificial breeding discourage the proved bull program?**

**A:** So far it has tended to increase interest.

**Q: What are the relative feeding values of the 1st, 2nd and 3rd cuttings of alfalfa hay?**

**A:** Third cutting is best, followed by 2nd, then 1st.

**Q: Will mature lespedeza pasture or hay cause cows to lose production?**

**A:** Yes. Most danger is period when plant is forming seed.

**Q: Is it profitable now to plan on feeding out wealers?**

**A:** Wealers have been losing money in college tests. Best to get rid of calves as soon as possible.

**Q: What are the relative feeding values of alfalfa and a combination of brome-alfalfa?**

**A:** Straight alfalfa has the highest feeding value, but brome-alfalfa may stimulate appetites due to the change.

**Q: What causes winter off-flavors in milk not due to feed?**

**A:** Such flavors often are caused by exposed iron or copper parts in the milk equipment, or by chlorine solutions left on the equipment from one milking to the next. Equipment should be freshly washed with chlorine solution just before milking.

**Q: If a cow has a surplus of colostrum is it all right to give it to older calves?**

**A:** Yes.

**Q: Do young dairy calves lose their efficiency in digesting whole grains?**

**A:** Calves eat better if started on whole grains but should be switched over to ground grain at 4 months.

**Q: Should alfalfa hay be carried over into second year or has it lost its feeding value?**

**A:** Alfalfa hay loses most of its carotene within 6 months. It also may become less palatable, but should be carried over as every dairyman should have a feed reserve if he plans to stay in the business.

**Q: How should you pick young sires?**

**A:** From a tested herd. From a proved sire, if possible, then from the best cow he bred. Too many buyers look only at the production record of the dam.

**Q: Should we be feeding cows trace minerals?**

**A:** There are no known deficiencies of trace minerals in Kansas soils at this time. No.

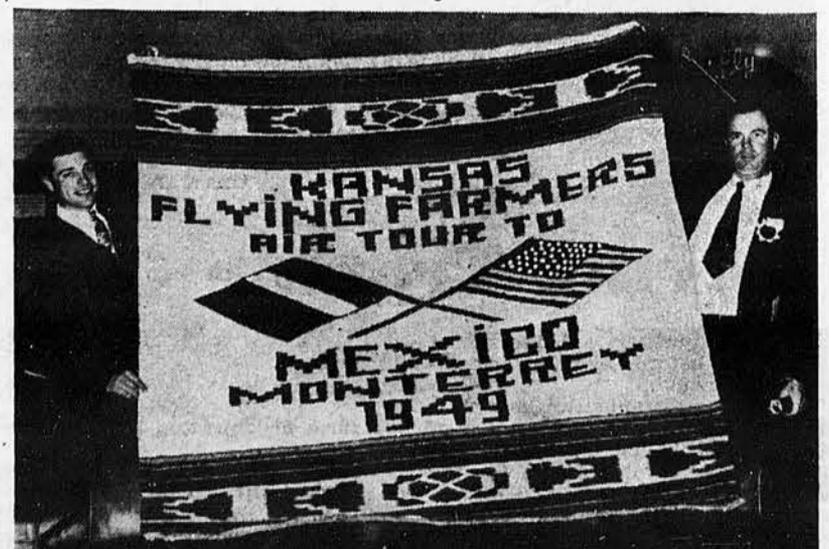
**Q: Does yeast help assimilate calcium?**

**A:** No.

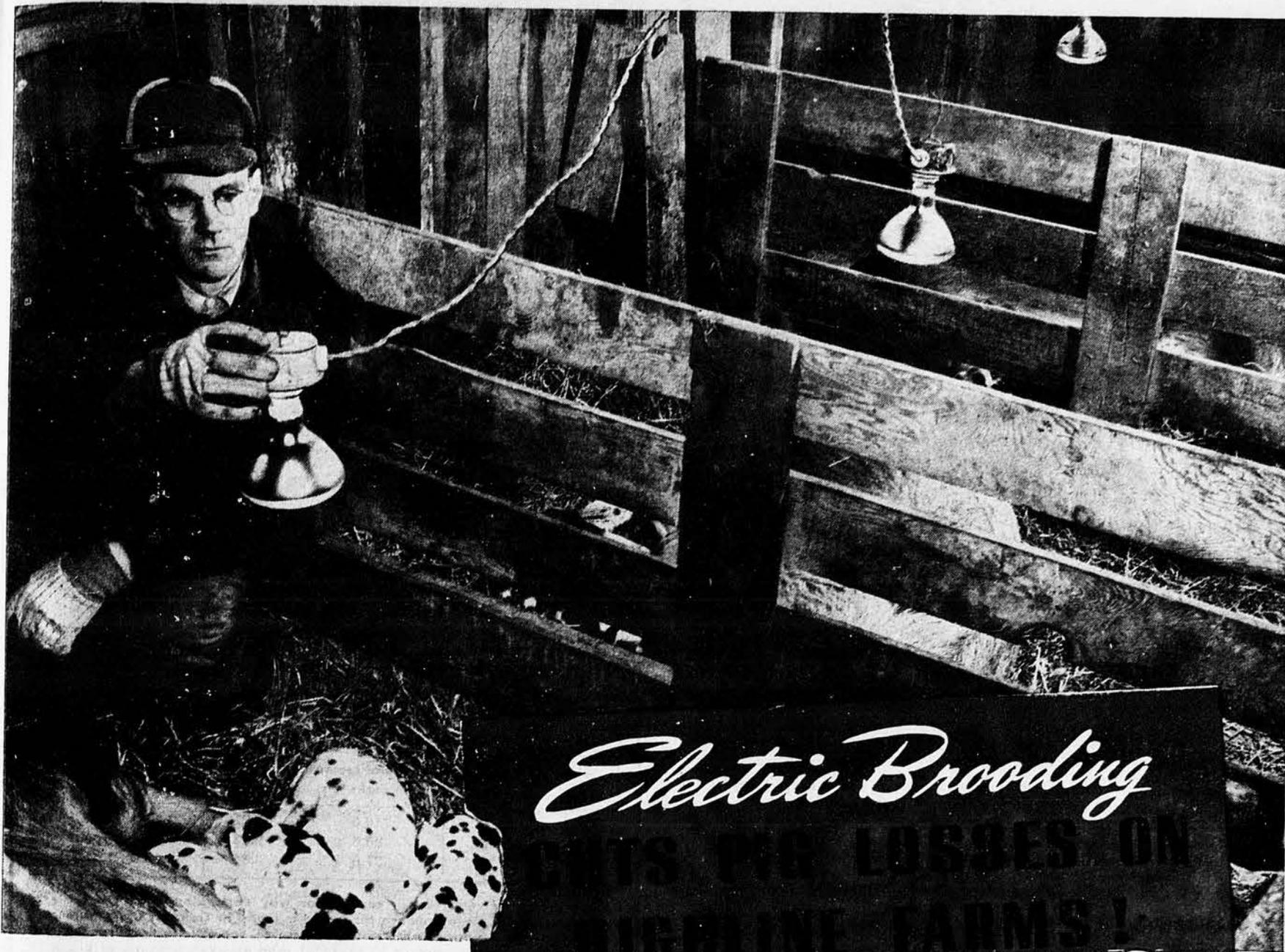
**Q: How high should Sudan grass be before turning in the cows and what is the danger of poisoning?**

**A:** There is no evidence in Kansas that certified Sudan has ever caused prussic acid. Sudan grass should be allowed to get 6 or 8 inches high and then see that cows keep up with it. Sweet Sudan is the most palatable variety but does not have as high a yield as some others.

## Memento From Monterrey



Raymond Stewart, left, Kansas Flying Farmer director from Fulton, and Hugh White, Kingsdown, display the Mexican wool blanket presented to the Kansans by the Monterrey Flying Club when the fliers flew down to Mexico in January. The memento will be displayed by the flying farmers at their convention in Dodge City in May. In return the fliers presented 3 Birger Sandzen lithographs to their Monterrey hosts. Making the trip were 143 Kansans in 67 light planes.

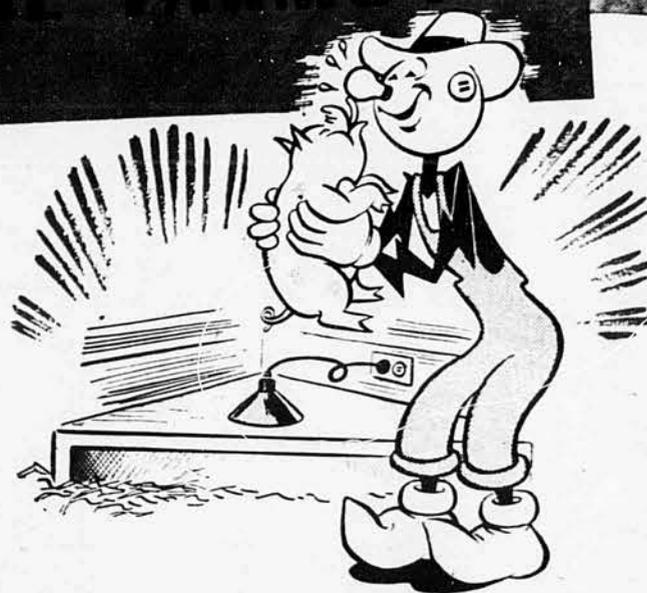


## Electric Brooding

Again Reddy Kilowatt, your dependable electric servant, hops out in front to take over another of the Kansas farmer's "chores." Heat from an R-40 Infrared Heat Lamp reduces chilling, keeps the pigs from crowding, and reduces losses through crushing by the sow. Reddy will take over the job with a simple brooder that you can build easily yourself in the corner of any farrowing pen. Successful Kansas hog raisers have already proved that electric brooders, built around an R-40 Heat Lamp, reduce baby pig losses as much as 50%.

**WRITE FOR FREE LITERATURE ON ELECTRIC PIG BROODERS**

By the time this message reaches you, it will not be long until the "spring pig crop" will be one of the added chores about the farm. If you want added information on electric pig brooders as compiled from the latest information available, drop a post card to Kansas Electric Headquarters, 912 Kansas Ave., Topeka, Kan.



**CAUTION:** Some safety precautions must be observed in using the R-40 Infrared Heat Lamp. Because of its higher heat intensity it must be at least 24 inches from the floor and should be protected so that the sow cannot reach the cord. Consult your Utility Company on the proper use of these Lamps.

# ELECTRICITY— Does the Job Better!

- |                                   |                                      |
|-----------------------------------|--------------------------------------|
| Central Kansas Power Company      | The Inland Utilities Company         |
| Kansas City Power & Light Company | Eastern Kansas Utilities, Inc.       |
| The Kansas Electric Power Company | The Kansas Power and Light Company   |
|                                   | Western Light & Telephone Company    |
|                                   | Kansas Gas and Electric Company      |
|                                   | The Empire District Electric Company |

This Message from the Pioneers of Rural Electrification

## Do You Need A Septic Tank?



Here is a reusable septic-tank form, with box on end to form notch for inlet and outlet pipe. Capacity of the tank is 500 gallons.

**I**F YOU and some of your neighbors are planning on installing septic tanks this year, here is a plan for making a reusable form.

The form is made of lumber and consists of 2 end and 2 side panels. These are assembled and bolted before being lowered into the hole. After the concrete hardens, the bolts are removed and the form is dismantled.

Beveled corners in the side panels make removal of the forms easier. Field tests show that if the crossbraces in the middle of the form are cut about 1/2-inch longer than the ends so the sides will bow slightly, removal of end panels is easier.

Tests also show that 2-inch lumber is more practical for end panels than 1-inch. Adjustable uprights permit the form to be raised or lowered to fit holes of various depths.

Here are some tips on maintaining the forms: Keep bolts and nails tight. Clean and oil panels immediately after removal and just before using. A trick that helps the panels to slip apart readily during removal is to grease corner areas heavily where the panels come together.

The following table for estimating materials will be helpful.

Recommended mix: 1 sack cement, 2 3/4 cubic feet of sand and 4 cubic feet of gravel or crushed rock (up to 1 1/2 inches size).

Water to add at mixer for each sack batch:

When sand is damp . . . 6 1/4 U. S. gallons

When sand is wet . . . 5 1/2 U. S. gallons

When sand is very wet . . . 4 3/4 U. S. gallons

See table at right center on this page for proper quantities of cement, sand and gravel for 100 linear feet of footings of different sizes.

The Horned Dorset, a striking and handsome animal, has merit as well as good looks. Both ram and ewe are horned. Primarily a mutton sheep, the Dorset is an excellent medium-wool producer. On some large estates, flocks of sheep termed officially "Dorset Horn" prove ornamental as well as useful as lawns are grazed. Horns of the Dorset ram are spiral and massive. The ewe's horns are shorter, finer and not so spiral.

Originating in the county of Dorset in Southern England, with records going back as far as 1750, the breed has

been kept pure all these years. Dorsets were brought to the United States about 1800, and at once became popular in the Eastern States where flocks still are maintained. However, in the Corn Belt the Dorset Horn never has been popular for crossbreeding and comparatively few shepherds in Missouri have been willing to go to the trouble of handling a double crop of lambs.

This can be said: The Dorset Horn of today is not unlike its remote ancestor of centuries ago that grazed the pastures of Southern England, holding tenaciously to the characteristics that set it apart from other breeds of sheep. It is the horned ewe, now as more than 200 years ago, that twice suckles her young in a single year. It is true, altho not known to all farmers, "double cropping" with sheep is possible with the Dorset breed.

### Saves Wet Land

A 20-acre field of brome grass provided full summer grazing for 18 Jersey cows on the Ruby Davis farm, Cowley county, last summer. He figured it was his best-paying piece of land; a few years ago it was wet land that could be counted on to produce a crop about once in 3 years.

The field is flat with poor drainage. A double ditch was pulled thru the field. Ground from both ditches was thrown toward the center, making it look much like a roadway. This prevented a ridge on the field-side of both ditches. Soil removed from a single ditch would have resulted in soil banks on each side.

### Ice Cream So Early?

Have you tried ice cream for breakfast? Take the word of W. H. E. Reid, of the dairy department, University of Missouri, it can't be beat. And Mr. Reid is an authority on dairy products—one of the nation's best. He reports that ice cream for breakfast is keeping him young. It's best on hot cereal, he says, bringing out the flavor.

These build-ups would have prevented the proper drainage of water from the flat field into the ditch.

Mr. Davis seeded this acreage in fall of 1946. The following summer he mowed the complete field 2 times and some portions 3 times to kill wild grasses. It produced some pasture in fall of 1947.

He took his cows off the brome for a few days last summer and turned them into native grass. Mr. Davis says milk production dropped quite rapidly. Turning them back into brome, milk production came right back.

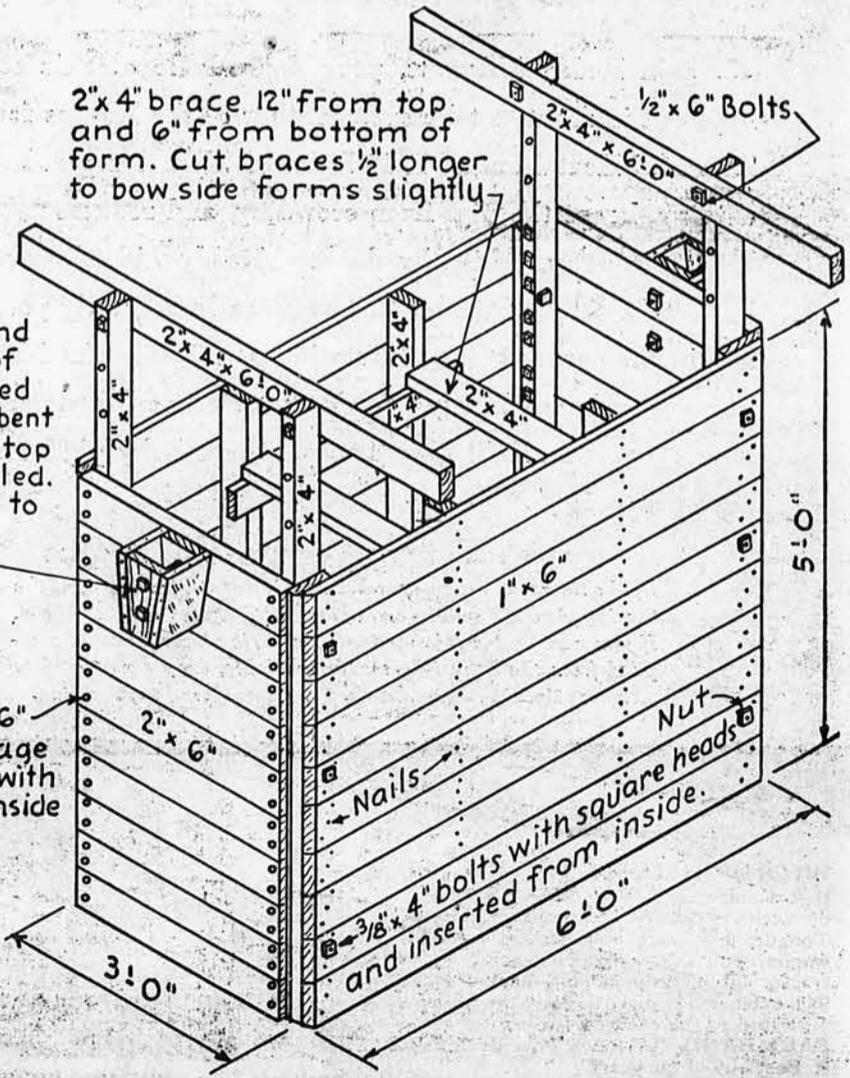
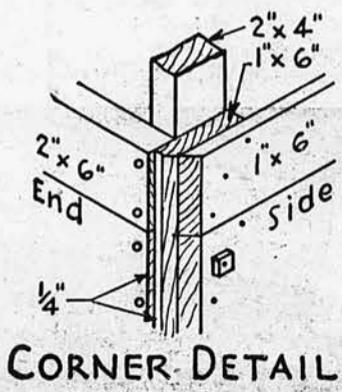
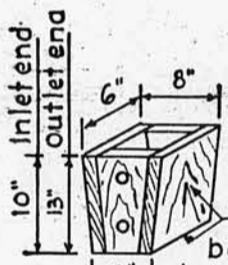
### For Hanging Gadgets

When chicken-leg markers are inserted into the handles of such kitchen implements as dish mops, kitchen brushes and fly swatters, they make excellent rings for hanging such items. The markers can be obtained at feed stores in a variety of colors and are flexible enough so they can be inserted in large or small handles.—Mrs. L. W.

Size of footings		Materials required*			
Width in.	Depth in.	Portland cement sacks	Sand cu.yd.	Gravel cu.yd.	Concrete cu.yd.
16	8	16.5	1.71	2.44	3.29
20	8	20.6	2.13	3.04	4.11
24	12	37.0	3.84	5.48	7.41

\*Quantities may vary 10 per cent either way depending upon character of aggregates used. No allowance for waste is made in Table. If aggregates are sold by weight in your locality you may assume, for estimating purposes, that a ton contains approximately 22 cu. ft. of sand or crushed stone, or about 20 cu. ft. of gravel. For information on local aggregates consult your building material dealer.

This box shows proper amounts of cement, sand and gravel for 100 linear feet of footings of different sizes.



### Is It True?

**I**S IT true that a farmer can "double crop" with sheep? Yes, it is true. There is one breed of sheep, the Horned Dorset, that will produce lambs in spring and fall, and while Dorsets are not numerous on Missouri farms these prolific sheep can be found and the breed has merit.

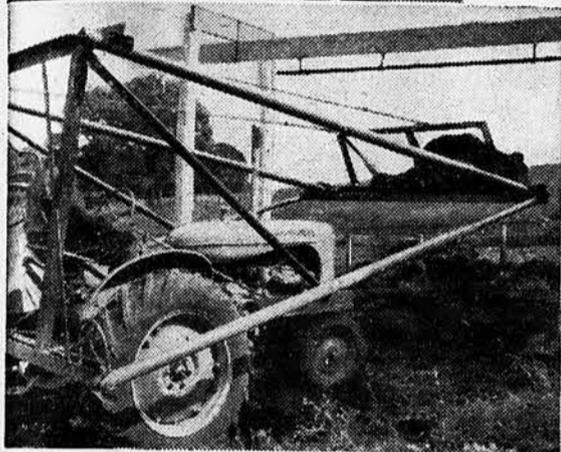
At one time Dorsets, kept for the production of "hothouse" lambs, were quite popular in Shelby county. Lambs born in the fall, housed in a heated building and fed for early market, brought top prices—which still is true of "off season" food supplies. In South Missouri, winter lambs have been cared for without so much attention and marketed early.

This line drawing shows details of construction on a reusable septic-tank form that will cut costs where several farmers can use the same form. Pictures and drawings thru courtesy of the Portland Cement Association.

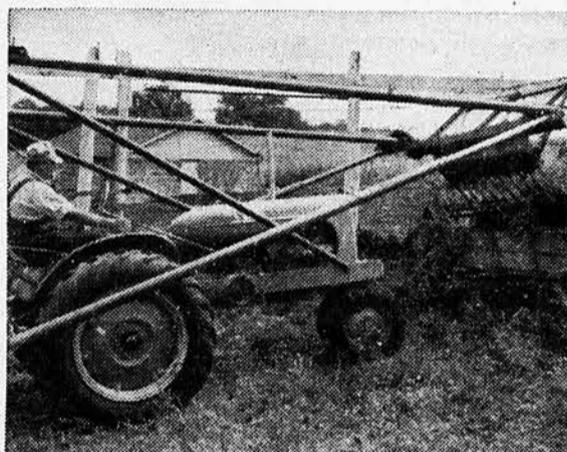


# "Spring chores are easy when your FARMHAND Loader takes over the big jobs!"

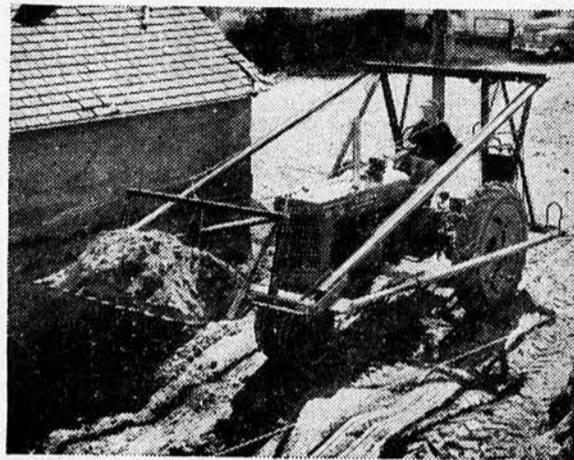
**WHY JUST READ** about the time-saving, labor-saving, money-saving efficiency of this great loader? Why not put it to work for you? Late winter or early spring is a fine time to start POWER farming!



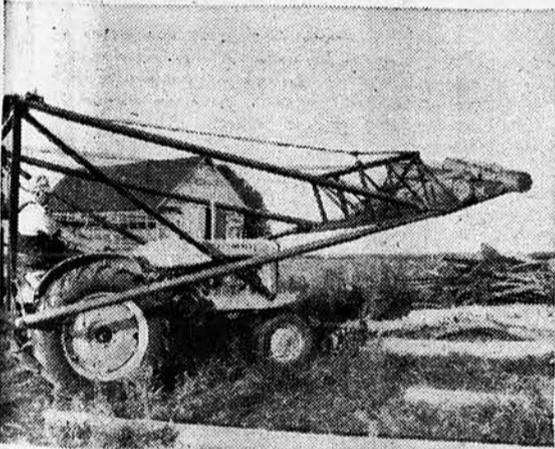
**1. TOUGHEST JOB** this time of year is manure loading and hauling, many farmers agree. You'll breeze through this chore in almost no time with that husky FARMHAND Manure Fork digging 1,000 lb. loads out of the pile, moving them quickly and effortlessly where you want them. No strain on tractor or wheels, either! "Wrist-Action" leverage rocks the load loose, settles and balances it before the loader starts to lift.



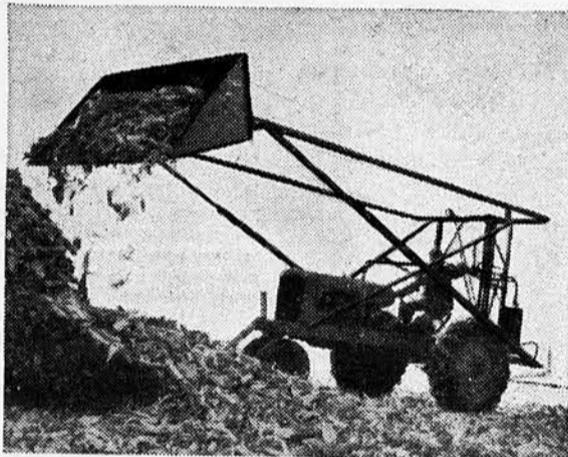
**2. FILLS 21 SPREADERS PER HOUR.** That's an easy record for one man to set . . . with his hand on a FARMHAND hydraulic control lever. Hoists big loads like a feather . . . jockeys them into position over the spreader . . . gently tilts and slides them off with no damage to equipment. Loads a spreader in less than 3 minutes safely and surely, thanks to FARMHAND's perfect control of loads up to 3,000 lbs.



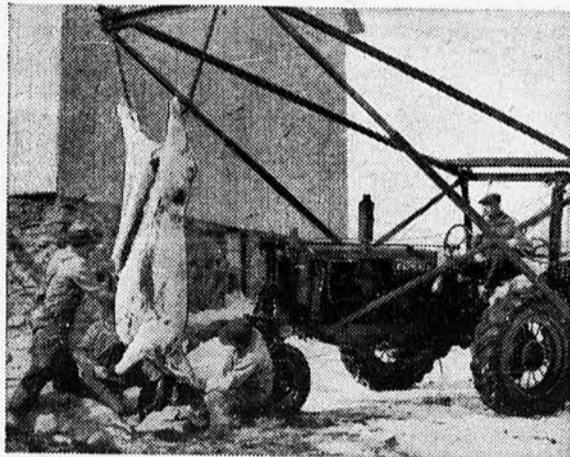
**3. GOT ROADS TO REPAIR?** Then slip a FARMHAND Sand and Gravel Plate over the teeth of your Manure Fork . . . and let that brute-strong FARMHAND Loader do the rest! Lifts and carries big loads of sand, gravel, earth and loose materials for fixing roads and dams. Invaluable on construction jobs, too, with that famous FARMHAND r-e-a-c-h of 21 feet. You've never handled a more maneuverable machine!



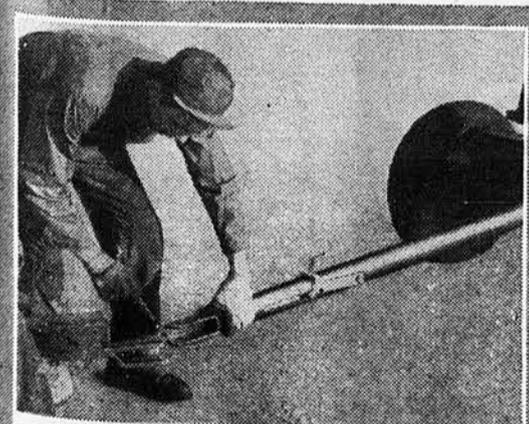
**4. CLEARING LAND?** Switch to a FARMHAND Forage Fork Attachment . . . and get busy! Pries giant boulders free . . . lifts and moves them out of the way. Pulls fence posts and small stumps . . . rips loose brush and bushes. Does the work of a whole crew of expensive hired help. And it's only one of 50 jobs your FARMHAND Loader will do quickly, economically. You'll find a FARMHAND pays for itself in a single season!



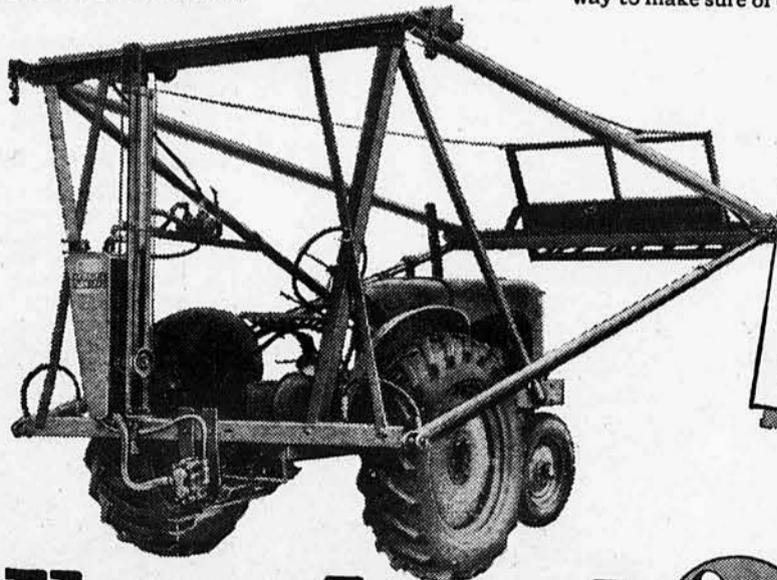
**5. MOVING CORN** to feed lots? Leave your wagon and shovels in the shed. Your FARMHAND Loader with Scoop Attachment does all the lifting . . . all the moving . . . all the unloading by itself. You'll use this big 33 cubic foot Scoop, too, for clearing snow from yard and feed lots . . . carrying and loading grain, silage and chopped hay. There's just no end to the usefulness of that big, dependable FARMHAND Loader!



**6. EVEN FOR BUTCHERING,** you'll find your FARMHAND Loader invaluable. Dips carcasses easily, lifts them high or low for skinning and dressing. Take a look around your farm . . . note the dozens of jobs you can do better with a FARMHAND Loader . . . right now and in every season of the year. Then head for your FARMHAND Dealer's and get your order in right away! Best way to make sure of early delivery.



**HITCH UP IN SECONDS!** You're looking at that wonderful new FARMHAND "90" Wagon with its famous Quick Hitch Extensible Tongue. Just back your tractor to front of wagon, pull out tongue extension to meet tractor hitch, drop in bolt, back tractor to lock extension in place . . . and the job's done. Just one of the exciting features of the new FARMHAND "90". Ask your dealer about it. Best buy of the year!



**Don't wait... write today!**  
Get the facts, and you'll get a FARMHAND Hydraulic Loader. Free illustrated booklet sent on request . . . or ask your nearest FARMHAND Dealer for a convincing demonstration.

# Farmhand

designed by a farmer, built for farmers by

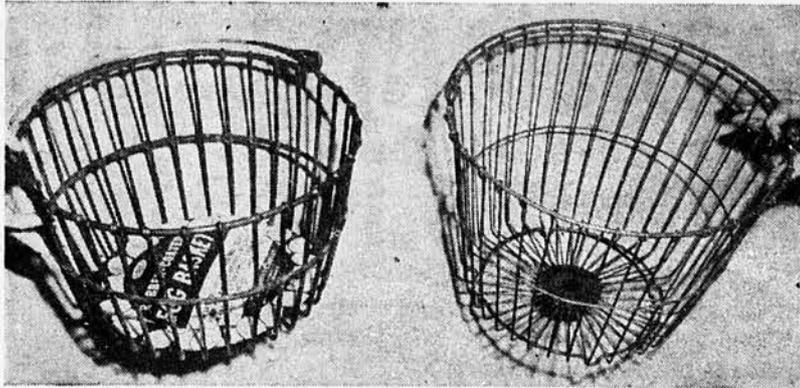


## HYDRAULIC LOADER

SUPERIOR SEPARATOR COMPANY • HOPKINS, MINNESOTA • Farm Machinery Specialists

## The Cover Picture

### Candling Eggs Shows Their Quality



A new type wire basket for egg gathering, shown here at the left, is shallower than the conventional basket at right, and the wires are covered with rubber for added protection to eggs.

**D**IRTY eggs cost Kansas egg producers an average of 11 or 12 cents a dozen. And they cause 75 per cent of the "down-grading," producers were told by buyers at a recent poultry meeting in Hutchinson.

The following program on the farm was recommended by Kansas State College poultry specialists to cure the dirty egg problem:

1. Keep hens out of the mud. It is best to keep the flock continuously housed after the start of the laying season.
2. Use a deep litter system.
3. Use either droppings pits or droppings boards covered by wire to keep layers out of the droppings.
4. Provide enough nests. One single nest for each 4 layers is recommended, or use the new compartment-type nests.
5. See that laying house is properly ventilated to keep the litter dry.

6. Gather eggs twice daily in winter—more often during summer—if possible.

7. Use all dirty eggs possible for home consumption.

8. Prepare any dirty eggs for market by cleaning with a buffer.

Three other points were outlined as causing eggs to be graded down on the market. They were: (1) Leaving eggs in the nest too long during warm weather; (2) not holding eggs in a cool, damp place during warm months, and (3) packing with the small end of the egg at the top.

It was pointed out to producers in all winter poultry meetings that an egg, when first laid, has an inside temperature of 105 degrees F. The embryo of the egg continues to grow until the temperature is reduced to 68 degrees. That is why frequent gathering and

immediate storage in a cool place is important to maintaining quality. Packing eggs with the small end up causes the yolk to break loose during handling of the cases.

Poultry specialists from Kansas State College are urging producers this year to follow at least one marketing of eggs thru the candling process at the buying station. In this way they can see for themselves why their eggs are being graded down.

To help producers understand the processes going on inside the egg, poultry specialists at winter meetings this year had candling equipment on hand. Each producer attending the meetings was allowed to candle eggs selected from all the various Government grades. By this inspection, producers could get a better idea of the actual variations in appearance between good and poor quality eggs.

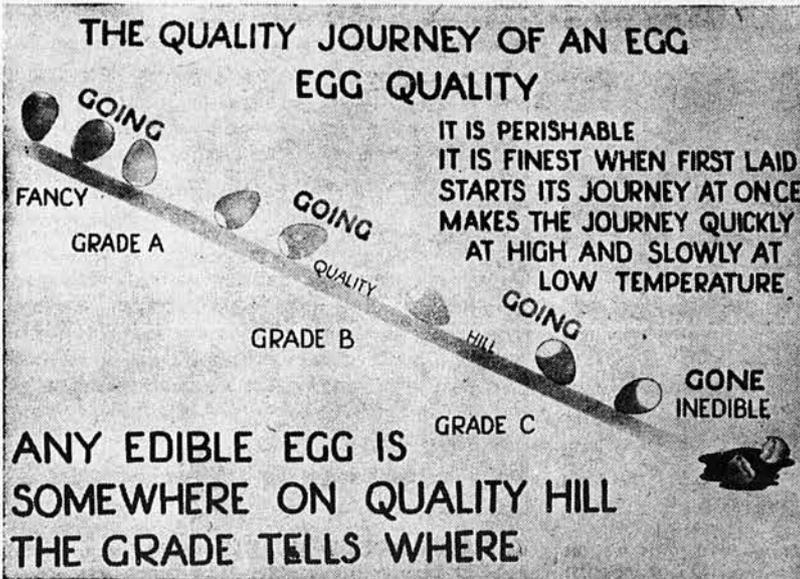
Producers also were told that they must make one of 2 decisions if the Kansas poultry industry is to remain prosperous. Each producer must decide: (1) To get into the poultry business on a large enough scale to be profitable, or (2) reduce his flock to just enough for home use.

If you decide to stay in the poultry business as a project on your farm, poultry specialists offer the following main points of a good program:

1. 300 to 500 layers for efficiency of production and marketing.
2. Stay with a common purebred or recognized cross or hybrid. Don't ex-



Mr. and Mrs. Lee Linder, Reno county poultry producers, shown on the cover, try out egg-candling equipment at a winter poultry meeting. All producers are urged to watch buyers candle at least one batch of eggs to learn why they are down-graded.



This chart, displayed at winter poultry meetings in Kansas, shows producers how eggs go downhill in quality at high or slow speeds, depending on how they are handled.



Dirty eggs cause 75 per cent of down-grading of Kansas eggs. These can be cleaned for market with a buffer, as shown in this picture.

periment with cheap or off-brand layers.

3. Never use poor or inadequate equipment.

4. The laying house should be equipped with a feed room, running water, electric lights, a concentrated nest area, droppings pits, and a deep-litter system used.

5. Buy only those chicks that are bred for egg production. Buy early chicks so they will be in production by September when egg prices are highest. Start each season with an all-pullet flock.

6. Buy only good feed of high-protein content to use with home-grown grains. Poor feeding never develops or maintains a good flock.

### Name Crops Officers

Shannon Nicholson, Manhattan, was named assistant secretary of the Kansas Crop Improvement Association during its annual meeting at Manhattan, February 3. Other officers, all re-elected, are: Walter Pierce, Hutchinson, president; R. J. Raleigh, Clyde, vice-president; and L. L. Compton, Manhattan, secretary-treasurer. C. C. Cunningham, El Dorado, and Otto Eulert, Paradise, were named to the board of directors.

The Kansas Hybrids Association, also in annual session, re-elected Wilfrid Johnson, Garrison, president; Herbert Roepke, Manhattan, vice-president, and Carl B. Overley, Manhattan, secretary-manager.

In connection with the crop improvement meeting, Charles Waugh, Weskan, was named winner of the Pillsbury wheat award. Gold Premier Seed Growers medals went to E. W. Underwood, Bird City, and J. E. Sowder, Topeka.



## Kansas Dealers

- ABILENE—Cruse Motor Co.
- ANTHONY—Williams Motor Co.
- ASHLAND—McNickle, Geo. W.
- ATCHISON—Touslee Tract. & Impl. Co.
- BELLEVILLE—Rooney Impl. Co.
- BELOIT—Fuller Equip. Co.
- CIMARRON—Layman Farm Supply
- CLYDE—Feight Farm Equip. Co.
- COLBY—Northwest Distr. Co.
- COLDWATER—Coldwater Motor Co.
- COUNCIL GROVE—Wood-Riley Impl. Co.
- DODGE CITY—Ark. Valley Impl. Co.
- EL DORADO—McClure Tractor & Impl. Co.
- ELLSWORTH—Johnson Farm Equip. Co.
- EMPORIA—Owens Tractor & Impl. Co.
- EUREKA—Bush Tractor & Impl. Co.
- FLORENCE—Roberts Machinery Co.
- GARDEN CITY—Burtis-Nunn Impl. Co., Inc.
- GRAINFIELD—Shaw Motor Co.
- GREENLEAF—Nelson Bros. Mach. Co.
- GREAT BEND—Shumacher Farm Equip. Co.
- GREENSBURG—Gupton Motor Co.
- HADDAM—Rooney Motor Co.
- HAYS—Drelling Impl. Co.
- HIAWATHA—Rite Way Farm Equip. Co.
- HIGHLAND—McKay Tract. & Impl. Co.
- HILL CITY—Lewis Motor Co., Inc.
- HOISINGTON—Robbins Equip. Co.
- HOLTON—Bottenberg Impl. Co.
- HOWARD—Bryan Tractor & Impl. Co.
- HUGOTON—Hugoton Tract. & Impl. Co.
- HUTCHINSON—Chas. A. Rayl Impl. Co.
- JAMESTOWN—Elniff Motor Co.
- KANSAS CITY, KANS.—Modern Farm & Home Store
- KINGMAN—Staley Tractor Co.
- KIOWA—Lawson Tractor & Impl. Co.
- LACROSSE—Luft Implements
- LARNED—English Impl. Co.
- LAWRENCE—Morgan-Mack Tractor & Impl. Co.
- LEAVENWORTH—Bolling Tractor & Impl. Co.
- LEONARDVILLE—John Stafford Motor Co.
- LIBERAL—Southwest Tractor & Impl. Co.
- LINCOLN—J. G. Miller Motor Co.
- LUCAS—Lucas Equip. Co.
- LYONS—G. C. Schumacher Impl. Co.
- MANHATTAN—Saroof Tractor & Impl. Co., Inc.
- MCPHERSON—Nicholson-Burt Motor Co.
- MARION—Midwest Tract. Sales & Serv.
- MARYSVILLE—Anderson-Boss Impl. Co.
- MEADE—Layman Tractor & Supply Co.
- MEDICINE LODGE—Sprout Tractor & Impl. Co.
- NATOMA—Farm Tractor & Equip. Co.
- NESS CITY—Schroyer's, Inc.
- NEWTON—Nordstrom-Mack Motor Co., Inc.
- OAKLEY—Shaw Impl. Co.
- OBERLIN—Kump Motor Co.
- OLATHE—Perrin Machinery Co.
- ONAGA—Wentz Tractor & Impl. Co.
- OSAGE CITY—Osage Motors, Inc.
- OSBORNE—McCammon Tract. & Impl. Co.
- OTTAWA—Price Impl. Co.
- PAOLA—Tom Crawford Tractor & Impl. Co.
- PHILLIPSBURG—Broun Tractor & Impl. Co., Inc.
- PLAINVILLE—Plainville Impl. Co.
- PRATT—Rollmann Tractor & Equip. Co., Inc.
- RUSSELL—Russell Tractor & Impl.
- SALINA—Kansas Tractor Sales Co.
- SEDAN—Wall Tractor & Impl. Co.
- SENECA—Anderson-Holmes Impl. Co.
- SMITH CENTER—Jones Tractor Sales & Service
- TESCOTT—Miller Motor Co.
- TONGANOXIE—Laming Tractor & Impl. Co.
- TOPEKA—Barnett Tractor & Impl. Co.
- ULYSSES—Schneider Impl. Co., Inc.
- VALLEY FALLS—The Modern Tractor & Impl. Co.
- WAKEFIELD—Broughn Trac. & Impl. Co.
- WAMEGO—Wamego Tract. & Impl. Co.
- WASHINGTON—Pacey Tractor & Impl. Co.
- WAKEENEY—Midwest Marketing Co.
- WELLINGTON—Packard Tractor & Implement Co.
- WICHITA—Wright Tractor & Impl. Co.
- WINFIELD—Stuber Tractor & Impl. Co.

### K C TRACTOR & IMPLEMENT CO., Inc.

1340 Burlington, N. Kansas City, Mo.  
Distributor for Kansas





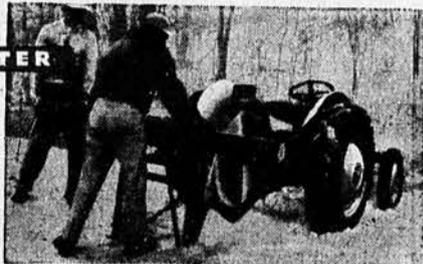
# All over America it's proving itself a YEAR 'ROUND TRACTOR

**DEARBORN IMPLEMENTS  
HELP GET MORE DONE, EVERY SEASON OF THE YEAR**



WINTER

**SNOW PLOWING**—Dearborn Snow Plows are raised, or lowered by Ford Tractor Hydraulic Touch Control. Attached by means of the Dearborn Universal Frame (sold separately).



**WOOD CUTTING**—Carry the Dearborn Cordwood Saw on the Ford Tractor right to the job, then lower to working position by Ford Hydraulic Touch Control... Belt tightens automatically.



SPRING

**PLOWING**—The Ford Tractor is powered to handle the Dearborn two-bottom, 14-inch moldboard plow... also disc plows, middlebusters, 2-way plows, furrowers and sub-soilers.



**CULTIVATING**—You may choose whatever type cultivator you prefer... lift type spring shank, rigid shank and front mounted attachments for either, as well as listed crop cultivators.



SUMMER

**COMBINING**—Whatever the crop you are harvesting, the Dearborn-Wood Bros. Combine can be relied on to cut, thresh and clean efficiently, under both good and bad conditions.



**MOWING**—Take full advantage of good weather with the Ford Tractor and a Dearborn Mower. The mower shown here can be attached in 8 minutes. Can mow up to 25 to 35 acres a day.



FALL

**CORN PICKING**—The Ford Tractor and Dearborn-Wood Bros. Corn Picker make a fast, clean-picking, dependable combination. Rows from 30" to 42" easily handled. Extra big husking bed adds to picking capacity.



**LOADING**—The Dearborn Standard Manure and Material Loader lifts and lowers by Ford Tractor Hydraulic power, carries loads to wherever you want them dumped. Heavy duty model also available.

## all 'round performance

Naturally, you first think of a tractor in connection with field work. And, the more you use a Ford Tractor in the fields, for plowing, discing, cultivating and the like, the more respect you have for the way it buckles down to heavy pulling and tough going... for the way it "takes the toil out of the soil" and the amount of work it helps you get done in a day.

Here's a tractor that can handle a really tough plowing job and bring new speed and efficiency to other kinds of heavy field work. It's a tractor that will please you with the quality of its work and surprise you with its economy.

All this is the result of more than 40 years of Ford power farming experience, designing, building and operating tractors. You'll see this experience reflected in advanced engineering, features unmatched in other tractors, quality construction and, above all, in all 'round performance.

## all 'round the farm

On most farms, there's more time-consuming drudgery *outside* the crop fields than in them. With a Ford Tractor and the right Dearborn Equipment, you can put power and speed into such jobs as scraping, leveling, loading, ditching, terracing, excavating, digging post holes, sawing wood, or clearing snow.

You can get to and from these jobs in a hurry, lift and lower most Dearborn Implements by a finger touch with Ford Tractor Hydraulic Touch Control and change from one implement to another with astonishing speed. You can save countless hours of heavy muscle-work a year.

## all year 'round

All of this adds up to the fact that you can keep a Ford Tractor busy for many extra hours in a year... hours when it's saving you time and drudgery, instead of sitting in the shed. You'll see the difference in the greater amount of work that can be done and in the way this tractor can be used to improve farms and increase earning power. Ask your nearby Ford Tractor dealer all about all the ways you can use a Ford Tractor, *all year 'round*.

DEARBORN MOTORS CORPORATION • DETROIT 3, MICHIGAN



**LOOK FOR THIS SIGN**—It identifies your nearby Ford Tractor dealer. You can depend on him for practical power farming help, for genuine parts and dependable mechanical service. He's a good man to know better.

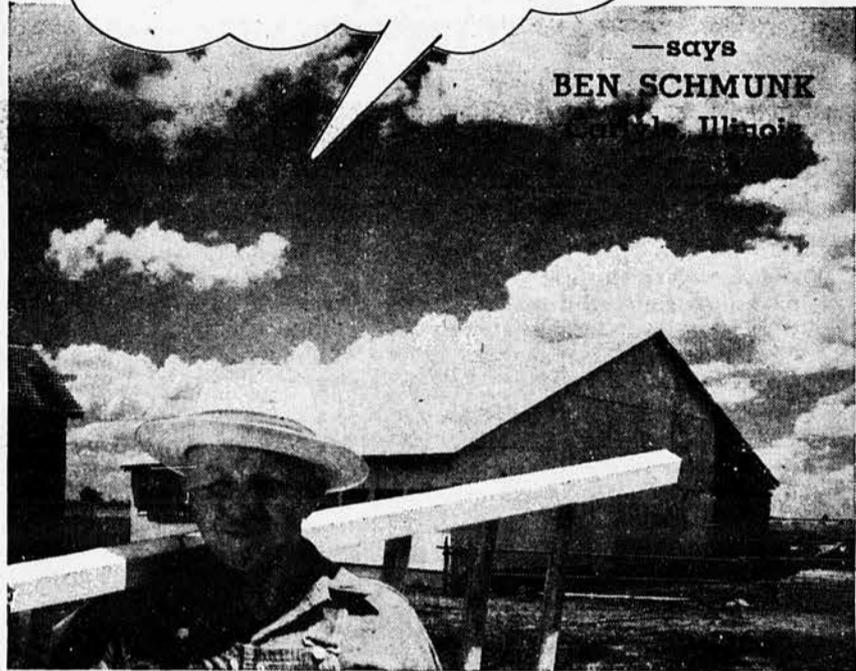


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# Ford Farming

MEANS LESS WORK...  
MORE INCOME PER ACRE

**IT'S EASY TO BUILD A BARN WITH STRONGBARN ROOFING**



—says  
**BEN SCHMUNK**  
Carlyle, Illinois

"Last Fall, my son and I and several neighbors roofed our dairy barn with STRONGBARN galvanized roofing," writes Ben Schmunk of Carlyle, Illinois. "We found STRONGBARN very easy to apply and were surprised at how strong it was. And yet, the sheets were as light to carry and handle, and as easy to nail, as any roofing we have ever used.

"We also discovered that with STRONGBARN we could space purlins farther apart. That saved money and lumber.

"This Spring, we had a cyclone which tore off other corrugated roofing from our machine shed and ripped off boards from our silo. These buildings were on either side of the barn, yet the STRONGBARN roofed dairy barn was not damaged at all. Every sheet is tight and the roof looks like it can withstand many storms like that one.

"So you can see why I am glad to recommend Granite City Steel's STRONGBARN roofing to every farmer."

**STRONGBARN GALVANIZED STEEL ROOFING AND SIDING IS STRONGER, BETTER, CHEAPER**

**STRONGBARN** is stronger than 26 gauge conventional roofing even though 21 lbs. per square lighter.

**STRONGBARN** means tighter roofs and siding. It stays flat and even, with tight joints. That's why it resists winds that tear and buckle conventional roofing.

**STRONGBARN** is easy to apply. Because it is stronger and tougher, it wears longer and better.

**STRONGBARN** 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.

See your dealer or write  
**GRANITE CITY STEEL COMPANY**  
Granite City, Illinois

## Are Blizzard Warnings Too Slow Coming?

**D**OES the present weather-forecasting service in Kansas fully protect Western Kansas livestock men? Many farmers and ranchers in the western third of the state believe they are not getting proper warnings of severe storms in time to protect their livestock.

A meeting to discuss this problem was held at Goodland February 17, under sponsorship of the Western Kansas Development Association.

To get some idea of what the problem is and what might be done about it, Kansas Farmer contacted several livestock men thruout the western third of the state. Here are some of the comments they made:

**John Luft, LaCrosse**—"Today, more than ever before, livestock men depend on radio for advance weather information. The present forecasting does not meet our needs. Stations such as Colby and Goodland, and Grand Island, Nebr., and other stations in this area, could and should constantly warn people just prior to an oncoming storm. By this, I mean at every break of a program, or at least every 15 or 30 minutes.

"It is our policy to keep tuned to stations north and west of us almost constantly during the period following a storm warning. We move our cattle to a place near shelter so they can be brought in if the storm hits. With good radio coverage, we could have more information as to severity and depth of storms. It is our policy to regard every storm as a possible 'worst storm' of the season.

"We understand present warnings must clear Kansas City weather stations before being released. This should not be necessary with a blizzard coming in, when immediate warning is necessary."

**R. F. Brock, Goodland**—"A weather bureau that will not promptly give the stockman information of a coming storm has lost its usefulness. The loss of livestock in our November storm would have been much less, or practically nothing, if livestock men had advance information. Topeka and Kansas City stations cannot supply the information as quickly as weather stations in the storm belt. As taxpayers, we are entitled to quick information on storms. Goodland and Dodge City stations should be authorized to put out weather reports. If not, they are of no use to us."

**Maxon E. Brown, St. Francis**—"We feel that the present forecasting sys-

tem is inadequate. There should be a weather station at a central point in this area. We always bring our cattle in when we hear storm warnings. We need a 4- or 5-hour warning of storms to get all our cattle to safety."

**H. A. Terrell, Syracuse**—"Ninety per cent of the stock in this area does not have sufficient storm protection or adequate feed reserves located where available in case of emergency. I learned long ago to take these precautions as perfect forecasts will not save cattle unless there is some safe place to put them. I do feel, however, that a 6- to 12-hour warning ahead of storms would give stockmen a chance to take whatever safety measures they could."

**C. E. Waugh, Weskan**—"Except for the November 18 blizzard, storm warnings this year have been fairly satisfactory. When the November storm struck, however, we had no warning. As stock was still in pastures and grazing fields and wheat, we had no opportunity to get it rounded up. Since the November storm, most stockmen have been more careful and are watching more closely for storm warnings; also purchasing barometers.

"I suggest a closer co-ordination of all weather-reporting services, and maybe the establishment of a regular broadcasting time for weather at the Colby or Goodland stations for Northwest Kansas and some other good stations for Southwest Kansas. I would suggest this service be at least 6 times a day in normal winter weather and hourly in extreme storm conditions. In the November storm I estimated the livestock loss in Wallace county at \$175,000 to \$200,000."

**George D. Royer, Gove**—"On November 18, and continuing for 36 hours, we had a 'killer' blizzard and the weather forecast missed it absolutely. The loss in this county and territory was tremendous. Gove county no longer has large ranches and I feel sure that 12 hours' notice of an approaching storm would be ample for every stockman in the county to make the best preparation possible. Most of us could do it in half that time.

"A blizzard is always a bad thing to fortify yourself against. For many years I have tried to have a field of standing feed. If the cattle are not in it when the warning comes, I get them there. I have found that cattle well fed wait a long time before leaving the place. Men with small bunches of cat-

(Continued on Page 13)

## Gold Watches to Safety Winners



Patricia Schalbar, left, and Wanda Sorber, right, members of the Kansas Farmer editorial staff, examine the gold watches which Senator Capper will award to the 1949 Kansas 4-H safety champions.

**K**ANSAS 4-H girls and boys are invited to enter the 1949 State Safety contest. The boy and the girl winner in this contest each will receive from Senator Arthur Capper, thru Kansas Farmer, a \$50 gold watch. This contest is sponsored by the Farm Safety Committee of the State Safety Council. Every 4-H member in the state is eligible to enter, and the rules for the contest may be obtained from your county agent, your club agent or your home demonstration agent. Senator Capper always is glad to give deserved recognition to 4-H boys and girls, and he is especially happy to again make these gold-watch awards in the interest of safety. He urges you to practice safety in your farm home, in working with livestock, and on the highway, in fact in everything you do.

le or sheep on pasture can more easily protect them. About once every 15 years we get a storm (rain, followed by zero weather) for which I have found no answer. All I could ever do was wait until the storm was over and then get feed to those that survived.

"As I said, farmers with small bunches of stock should be able to do the best job of protecting their stock if warned in time. Due to lack of warning, these men were the heaviest losers in the November blizzard."

L. C. Aicher, Hays, superintendent, Fort Hays Branch Experiment Station. "For some time I have felt that it would be very important to have more accurate forecasting, and as far ahead as possible, to help our livestock men. It seems that these storms can come up so suddenly there isn't too much time available. This winter the forecasts have not been too accurate.

"It seems to me they ought to be able to work out a system of forecasting whereby these sudden storms could be handled better. In which case, they certainly would save a lot of livestock and a lot of suffering. I have often wondered whether a weather-reporting station at Goodland, for instance, which would be in contact with storm areas north and west, might not help in getting better forecasting."

Herb Barr, Leoti, president, of the Kansas Livestock Association—"I have kept a record of forecasts and they have been far from accurate, especially this year. Often we get exactly opposite reports from Topeka and Denver as to what our weather will be.

"On November 18, I personally listened to the 5-minute Topeka forecast at 11:30 a. m. There wasn't anything in it to warn of a blizzard that killed 50,000 sheep and 10,000 cattle in our territory. We were trucking cattle from Wichita to Logan county the day before the storm. We had about 800 of them moved. That night we had them in a large corral with good windbreaks. Not having any warning about the approaching storm, we turned them out the next morning and lost about 200 head, or 25 per cent of these cattle. This loss seems unwarranted.

"All other livestock men I talked to never received any warning of the storm. I admit the way we scatter our livestock out on the high plains makes it hard to protect them from blizzards.

"However, if the livestock is to be in one location long enough it pays to build windbreaks and put up snow fences. We have practiced that policy off and on. Windbreaks without snow fences are useless because snow will drift over the windbreak and fill up the area where the cattle are supposed to be protected. By putting a series of snow fences about 100 feet north of the windbreak, and 2 or 3 more back of that about 50 feet apart, a great deal of good will result. If cattle are kept in a permanent location the best blizzard protection is an open shed with windbreak and snow fences to protect the shed.

"The Western Kansas Development Association plans to do something about the forecasting service immediately."

### Dairy Associations Elect Officers

THE following officers for 1949 were elected by Kansas dairy breed associations during Agriculture Week, at Manhattan, January 31, February 1 and 2.

Kansas Guernsey Breeders' Association: President, Joe Simmons, Independence; vice-president, W. H. Berthoff, Wichita; secretary-treasurer, Max Dickerson, Hiawatha.

Kansas Jersey Cattle Club: President, John Weir, Jr., Geuda Springs; vice-president, John Bowyer, Abilene; secretary-treasurer, Ray Smith, Hutchinson.

Kansas Ayrshire Club: President, Dwight Hull, El Dorado; vice-president, John Stephenson, Downs; Secretary-treasurer, Mrs. John Keas, Effingham.

Holstein-Friesian Association of Kansas: President, Quentin Kubin, McPherson; vice-president, Joe White, Topeka; secretary-treasurer, T. Hobart McVay, Nickerson.

Kansas Brown Swiss Cattle Breeders' Association: President, Paul Timmons, Fredonia; vice-president, Andy Erhart, Garden City; secretary, Earl Webber, Arlington.

Kansas Milking Shorthorn Society: President, Joe Hunter, Geneseo; vice-president, Lock Thies, Dodge City; secretary, C. O. Heidebrecht, Inman.

The Kansas Dairy Breed Association announced the following awards:

Progressive Holstein breeders—Lloyd Schultz, Pretty Prairie; Ed Regier, Whitewater, and R. L. Evans, Hutchinson.

4-H Club production contest winners—Norman Caldwell, Guernsey; Bonnie Lou Anderson, Ottawa, Ayrshire; Darrell Clark, Great Bend, Milking Shorthorn; Merwin Frey, Manhattan, Jersey.

Ira G. Romig, of Topeka, was named the "Good Farm Citizen, Dairyman and Holstein Breeder."

### Need Buffalo Seed

Because Buffalo alfalfa seed production was light last year, seed producers should sell only to those who will attempt to grow seed another year, says C. O. Grandfield, Kansas State College agronomist. Buffalo alfalfa seed no doubt will be scarce for several years, he states.

### Changes Calf Shed Into Milking Parlor

A BUILDING you already have probably can be converted into a grade-A milking parlor. That was the case on the Blue Meadows farm in Wilson county, owned by T. D. Hampson and operated by Wiley Fortner. A tile calf shed that measured 12 by 40 feet was revamped into an 8-stanchion milking parlor.

A 14-foot addition was attached to the old building to house the milk room. It also provided sufficient space for double-door separation between milk room and stanchion space. A feed room also was located between the old and new parts of the building. Door to the feed room opens into the stanchion room.

The original calf shed was about one-half open front. This area was closed in with a door on each side and 4 windows between them. A concrete floor was poured in the building.

Main difficulty with this milking parlor is that the building is quite narrow. Mr. Hampson pointed out that if he were starting from scratch, he would want the stanchion area at least 4 feet wider. It would give more room behind the cows.

In other respects this parlor is completely modern. It is well lighted. And an automatic pressure water system installed last summer provides running water for both the milking parlor and the home.

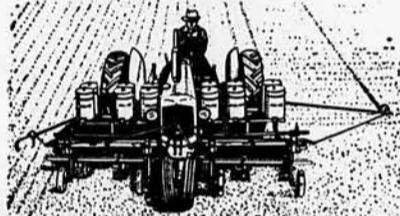
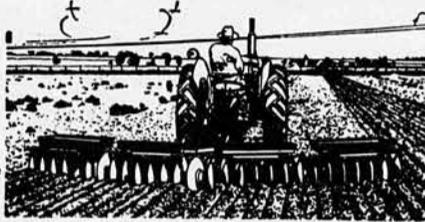


Little expense was involved in converting this former calf shed into a grade-A milking parlor. It is located on the Blue Meadows farm in Wilson county, owned by T. D. Hampson.



## CHOOSE YOUR TOOLS

By The JOBS They Do!

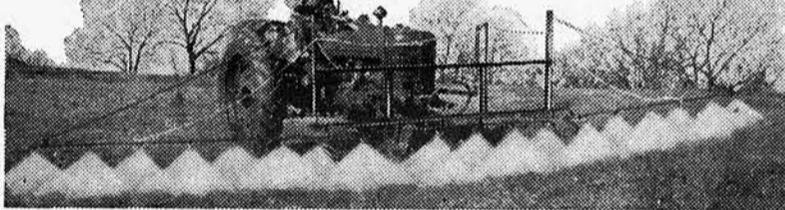


The real measure of tools is their capacity for work . . . their thorough performance under all field and weather conditions. Precision-engineered MM Modern Machines and Tractors are "work-hungry teammates" that get the job done right, quicker! Extra reserve of power, lower operating costs and heavy-duty construction give MM Visionlined Tractors extra punch. High-speed, Hi-Klearance MM Plows are better-scouring and longer-lasting. MM Disc Harrows, MM Wheatland Disc Plows, World Champion MM Planters, and Moline-Monitor Drills couple your future to real profit-earning investments! Maximum-strength MM plows for better penetration and greater clearance . . . quality planters and drills in model choices to fit all soil conditions for more accurate, uniform planting of crops . . . hook them to rugged MM Visionlined Tractors and watch your net profits increase!

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VISIONLINED TRACTORS  
for SAFETY and COMFORT

MINNEAPOLIS-MOLINE POWER IMPLEMENT COMPANY  
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## INCREASE PROFITS with EVANS STURDY, RELIABLE SPRAYERS

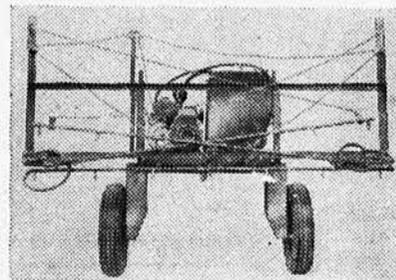


### SPRAYING EQUIPMENT BACKED BY MORE THAN A QUARTER CENTURY OF EXPERIENCE

Your Evans dealer handles the line of spray equipment that has passed the test of time . . . equipment made consistently superior throughout twenty five years of pioneering, research and actual experience in all phases of agricultural spraying. Thus, there is an Evans Spray Machine to fulfill your every requirement. Prices range from \$115 to \$215; but regardless of the model you choose, the Evans features of quick mounting, versatility, economy, capacity, even coverage and adaptability to power supply assure maximum usefulness "all around the farm". Depend on Evans, too, when extra parts are needed! Evans is the largest stocking dealer of component parts and accessories in the Midwest. A complete line of spray materials.

#### EVANS TWO-WHEEL ADJUSTABLE AXLE ROW CROP SPRAYER

Engine Model with 2-wheel Trailer 60 gallon tank, 2.3 HP engine . . . can be used on trailer or as skid for many spraying jobs around the farm. Illustration shows sprayer with boom mounted and folded.



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Do you have a spraying problem? Just write us a letter . . . and be sure to send for the FREE 1949 Evans catalog.

SOLVING THE FARMERS' SPRAY PROBLEMS FOR 25 YEARS  
**Evans ORCHARD SUPPLY Co.**  
305 Delaware Dept. E-2, Kansas City, Missouri



## "SOIL SAVING"?

W. H. Dyer's soil saving experience has been a man-sized job. When he moved onto his Clearwater, Kansas, farm in 1916, he saw that something had to be done to save the valuable top soil escaping his land through deep-rutted, trench-like gullies.

The soil conservation program he initiated restored the farm to its present high state of fertility. Today his 320 acres have nearly eight miles of terraces. To check erosion he has constructed a saucer inlet and two drop inlets, one of 69 feet, the other of 125 feet.

Rebuilding his soil's fertility has been a thorough-going project on the Dyer farm. Soil tests generally indicate that lime phosphate and nitrogen are the two fertilizers needed. Farmer Dyer applies them in the quantities required.

Though the beginning was difficult, balanced farming and soil conservation have more than paid off for the Dyer family. Abundant crops, hearty stock, and rich land add up to happy, profitable farming.

Ask your Farm Advisor how you can be a "SOIL SAVER."  
It Pays!



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Write for prices. Special discounts now  
Good territory open for live agents.

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STATE SIZE WANTED KANSAS CITY 15, MO.

Get the **PRECISION** that brings **PROFITS!**  
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**READY NOW . . .** to help you get "experiment station" results on your farm this year. Easy fingertip control offers full range of pressures, 0 to 200 lbs. Special pump operates directly from power takeoff. Folds up, folds back, locks up. Mounts on any Tractor, Truck, Jeep. Ruggedly built for years of hard service.

On numerous farms **KEYSTONE** has been doing the job right. Does a thorough, **PRECISION** job on weeds, insects, pests . . . spray crops, buildings, livestock, trees. Rent it out for extra income! Write today for big free spraying manual.

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Send big, free Spraying Manual at once. Also complete information about **KEYSTONE** Farm Sprayer. No obligation, of course.

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**FREE BOOK**

## Was Your Land Good When You Started Farming?

**A** GOOD farmer leaves his land in better condition than he found it. That is a yardstick commonly used to measure a farmer's qualifications.

Unfortunately, much farmland today is in much worse condition than it was 25 years ago, even 10 years ago. What does that mean to the farmer of tomorrow?

Chester Peterson, Jr., Saline county 4-H boy, started farming on his own at the age of 10. He rented 80 acres and grew 51 acres of wheat. In addition he had 11 acres of Madrid sweet clover, 7 acres for waterways and about 10 acres in brome and alfalfa. He started with sweet clover at the top of the watershed and plans to rotate down the slope until the field is covered. Then he will be ready to start over again with another round of sweet clover.

### Tried Soil Conservation

Chester entered the Saline county 4-H soil conservation contest. At the conclusion of the contest he wrote a paper entitled, "My First Experience at Farming at My Own Risk." Here is the paper he wrote:

"I rented 80 acres from my grandma last fall. It was land in the Camp Phillips area. The land had been badly used, it had all kinds of weeds, brush and fox-holes. It had been leased out to a man for 2 years and he had burned and disked the land both years. It looked and was bad, gullies had started, weeds were everywhere and are still a pest.

"I joined the Saline county soil conservation district, and Mr. Payne (Jay Payne, unit conservationist in Saline county) laid out my contour lines which I followed. I raised a good wheat crop this year. Dad helped me and we shaped and seeded all the gullies with Intermediate wheat grass. We had a good stand but it did not do so well this spring. They will be used for terrace

outlets when they become well sodded.

"These 3 gullies flatten out on the east side of the farm and form a flat field, which we seeded to alfalfa and brome grass. But I was not lucky. The rains came too late last fall, so the alfalfa froze out. We reseeded this spring with 10 pounds of alfalfa and 10 pounds of brome to the acre and got a good stand. But it was so wet the weeds could not be cut. It looks bad, but dad says weeds add humus to the soil, but he has me charged with 200 pounds of alfalfa seed at 40 cents and 200 pounds of brome seed at 20 cents. If my wheat crop had not been so good I would be in debt for my soil conservation work. We inoculated all the legume seed.

"We plowed and tilled all the land on the contour and I think part of it can be terraced next year.

"I hope that when I become of age this land will be one of the best farms around here. I have read schoolbooks that say grass and legumes build soil. If that is so I will build a good farm."  
—Chester Peterson, Jr.

### On Grade-A Market

To get on the grade-A milk market, Dale Wiltse, Wilson county, recently sealed off one section of his barn and provided space for 7 stanchions. There is double door separation between the stanchion area and the milk room provided at one end of the area.

The milking parlor is lighted from one side where a full row of windows was cut into the wall of the barn. Sheet metal was used to seal the milk room and parlor from the loft above.

Mr. Wiltse cut drop doors in the wall in front of the stanchions. He can feed grain to his milk cows thru these doors from the driveway which separates the milking area from the grain bins on the opposite side of the barn.

## Here Is Comfort For Your Hogs

**A** PORTABLE, concrete hog wallow may be the answer to keeping your hogs clean, healthy and comfortable this summer.

By using a concrete wallow, lime-sulfur can be put in the bath to help keep hogs free from parasites. Water can be changed as often as necessary for good sanitation.

A very satisfactory concrete wallow can be made 6 feet square by 1 foot high. Hooks embedded in the concrete bottom permit the wallow to be moved with a farm tractor.

Only an outside form is needed as the wallow can be cast on the ground if the ground is smoothed off and covered with building paper. The concrete mix

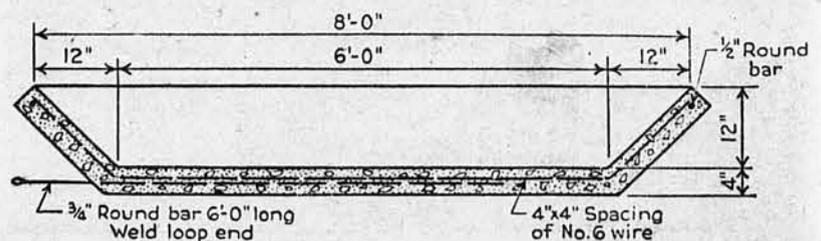
should be made quite stiff so the walls can be shaped up with a trowel—thus eliminating need for an inside form.

Concrete material needed for constructing the wallow includes:

- Seven sacks cement.
  - One-half cubic yard sand.
  - Three-fourths cubic yard gravel up to 3/4 inches.
  - Sixty square feet of 4- by 4-inch No. 6 wire mesh.
  - Twenty-eight linear feet of 1/2-inch round bars.
  - Two 3/4-inch round bars with loop ends.
- The best mix is one sack cement, 1 3/4 cubic feet sand, 2 cubic feet gravel or crushed rock, and 4 1/2 gallons water.



**A portable, concrete hog wallow like this one may be just the thing for your hogs this summer. The wallow can be moved with a farm tractor by means of hooks embedded in the concrete bottom.**



**This drawing of the concrete wallow shows dimensions and construction details. See drawing for materials needed. Picture and drawing thru courtesy of the Portland Cement Association.**

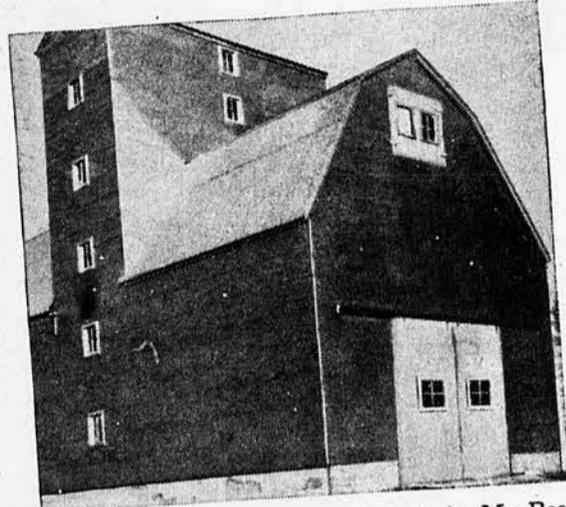


# FARM NEWS-GRAPHIC

A picture review of successful farming brought to you by the Standard Oil Company.



**2,000-Bushel Tower of Corn**—that's the corn drier built by Orville Beeson of Summitville, Indiana. It uses 10 gallons of Standard Heater Oil per hour, 20,000 cubic feet of air per minute. It's just one example of Mr. Beeson's efficient farming. Another: a mower he built and installed on the front of his tractor, for mowing fence rows.



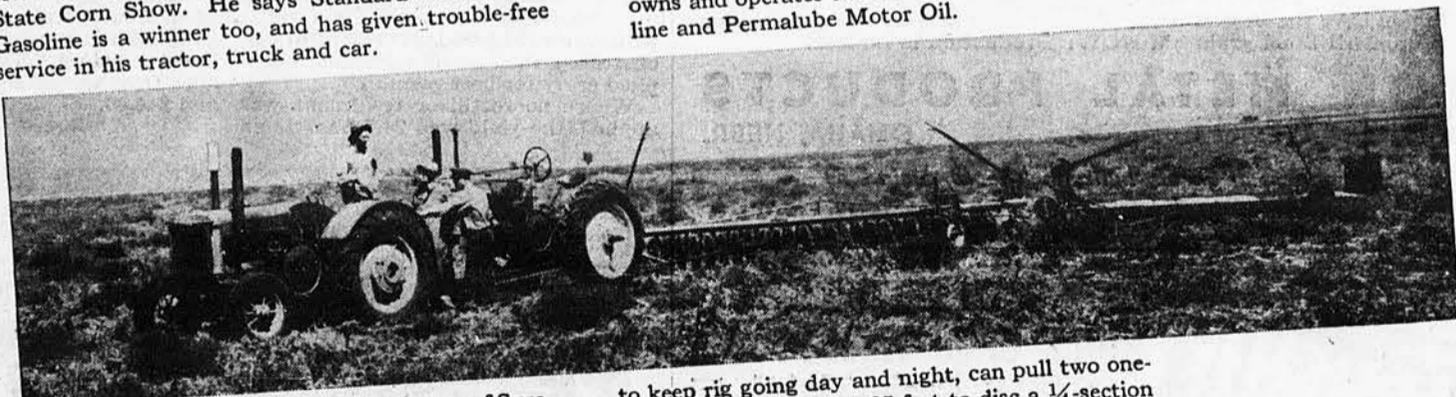
**Nobody Handles Grain** in this crib built by Mr. Beeson. Machinery does shelling and grinding, also lifts grain overhead for storage. Crib capacity: 5,000 bu. ear corn plus 5,000 bu. small grain.



**Real Corn Kings** are A. H. Berg and son John, of Wyndmere, N. Dakota. A. H. Berg's De Kalb Hybrids won professional grand championship at 1948 State Corn Show. He says Standard Red Crown Gasoline is a winner too, and has given trouble-free service in his tractor, truck and car.



**Discussing Tractor Operation** are Herbert Lenhard of Darwin, Minn., and Standard Oil Agent Don Putzier (right). Mr. Lenhard, a customer of Don's for 17 years, believes in cross-breeding hogs, says, "Cross-breeding gets me big, uniform, fast-growing litters... fine hogs for market." Mr. Lenhard owns and operates two completely mechanized farms, uses Red Crown Gasoline and Permalube Motor Oil.



**One Man Runs Two Tractors.** Jack Holdren of Syracuse, Kansas, removes front wheels of one tractor before hitching it behind other tractor. Front-wheel hubs of trailing tractor are bolted onto channel iron connecting the tractors' drawbars. Control rods of rear tractor extend to radiator so driver of front tractor can reach them. Two men take turns

to keep rig going day and night, can pull two one-way disc-plows cutting 27 feet to disc a 1/4-section each 15 hours. Jack uses Standard Power Fuel and Red Crown Gasoline to power his farm equipment. He says these fuels are economical, uniform, and packed with plenty of power.

 **Win \$5.00.** Send your farm pictures, with descriptions, to Standard Oil Farm Photos, 910 So. Michigan Ave., Chicago, Illinois. For each picture that we use in the News-Graphic we'll pay you \$5.00, and we'll return the others. Thanks a lot!



*Your Standard Oil Man*

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**15 SUPERIOR CONSTRUCTION FEATURES**

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2. Big weather-proof door, 26" wide by 8' high, permits storage of tools, machinery and other items when bin is not being used for grain storage. (NOTE: ON 2750 AND 3300 - BUSHEL BINS DOOR IS 24" WIDE BY 28" HIGH.)
3. Heavy 10 gauge steel channel door frame.
4. Heavy 1/2" threaded tie rods form support for door frame and removable door panels. This strong, sturdy construction provides protection against spread of door frame under even the heaviest possible grain load.
5. Removable door panels prevent grain spillage when outer door is opened.
6. Tunnel type shoveling board built in door opening makes removal of grain easy and prevents waste.
7. Door panel equipped with sacking spout.
8. Combination ventilator and elevator-fill opening with walkway. Ventilator cap is adjustable.
9. Removable roof section for shovel filling.
10. Narrow, pressed steel, interlocking roof sheets give added strength to withstand snow loads and strong winds. Eaton construction assures a weather-tight roof.
11. Heavy anchor strap on each section of roof provides added protection against strong winds.
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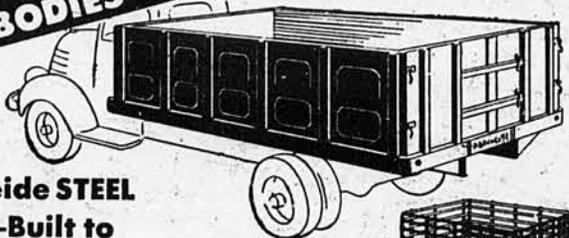
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**Nitrogen Is Main Requirement of Flax**

This is the second in a series of fertilizer articles which Kansas Farmer will carry this year, giving specific recommendations for individual crops. Flax is one of those difficult crops to fertilize. But some farmers have had good returns from use of certain fertilizers. Other crop recommendations will appear in early issues of Kansas Farmer.

HOW much and what kind of fertilizer should be used on flax? Nitrogen and phosphorus are the 2 elements most likely to give yield increases, according to Dr. Harold E. Myers, head of agronomy department, Kansas State College. But experimental work on that score is limited, he points out. Present information does not provide enough evidence to justify specific rate recommendations.

It has been learned that flax responds well to a good rotation which includes a strong legume. That suggests a great need for nitrogen, Doctor Myers says.

Work has been done to determine pounds of plant food removed by flax. Dr. F. C. Bauer, University of Illinois, reports that a yield of 11.3 bushels of flax an acre required 20.9 bushels of nitrogen an acre. Nitrogen was the big requirement. The same yield required 3.6 pounds of phosphorus, 5.1 pounds of potassium, 1.1 pounds of calcium and 1.7 pounds of magnesium.

Those figures tend to uphold the suggestion made by Doctor Myers. Nitrogen is the main plant-food requirement of flax. Rates of 20 to 30 pounds of nitrogen have promise of practical possibility. That means 60 to 100 pounds of ammonium nitrate. The same may be true of phosphate, particularly if the soil has shown phosphate deficiencies.

As a general rule, commercial fertilizer has been used sparingly on flax in Kansas. But a few farmers have experienced good results. Last year Edgar Fleming, Wilson county, tried ammonium nitrate. He started with 100 pounds of ammonium nitrate at one end of his flax field. He gradually reduced the amount until none was used at the other end.

A man could have walked thru that field with his eyes closed and told the difference, says Vernon Geissler, county agent. At the fertilized end, flax was up around the knees. At the other end, it was down around the ankles.

The whole field made 10 bushels an acre. Altho no yield check was made,

Mr. Fleming thinks it improved the crop 3 or 4 bushels an acre at a cost of \$3.50 an acre. The fertilizer was applied when the crop was 3 or 4 inches high. He already has nitrate on his farm for this year's crop.

For the most part 1948 was a bad year for flax. A few weeks before harvest it looked good. But wet weather took much of it. That was what happened to a 20-acre crop on the Charles Auten farm, Wilson county. Wet weather got it.

Mr. Auten had never raised a crop of flax before. At that time he was new to the flax-producing area of Kansas. A 20-acre patch of sod had been broken out on his farm just a few months before he bought it in fall of 1947. Mr. Auten worked that ground down as early as possible in preparation for flax. Wet weather prevented early seeding. But when he drilled the flax seed April 1 last year, he also applied 125 pounds of 4-12-4.

It looked like one of the outstanding flax crops in the area last year. Don Fink, manager of the Archer-Daniels-Midland flax mill, at Fredonia, looked at the field and made a conservative guess at 15 to 17 bushels. Mr. Auten says a Kansas City seed dealer had asked for the seed from that crop after he had inspected it closely and made yield tests. His estimate was 25 bushels an acre. It was an excellent field of flax, but Mr. Auten was unable to harvest a single bushel because of wet weather.

Prospects for flax were good last year. Mr. Fink had hopes the average yield would be increased from 7 to 9 bushels an acre. But wet weather at harvest time changed that. The state average last year was down to 5.5 bushels. But improved rotations and better farming practices do give promise that the flax average in Kansas will be raised.

Use of 2,4-D to kill weeds in flax came into the picture last year. For the most part that is a touchy practice. Much flax in Kansas is used as a nurse crop for legumes. That rules out the use of 2,4-D. And only a few varieties of flax show any tolerance for the chemical.

If 2,4-D is used, it appears that early application is best, when flax is 2 to 6 inches high. But it looks like the best bet for weed control is summer or early fall plowing.

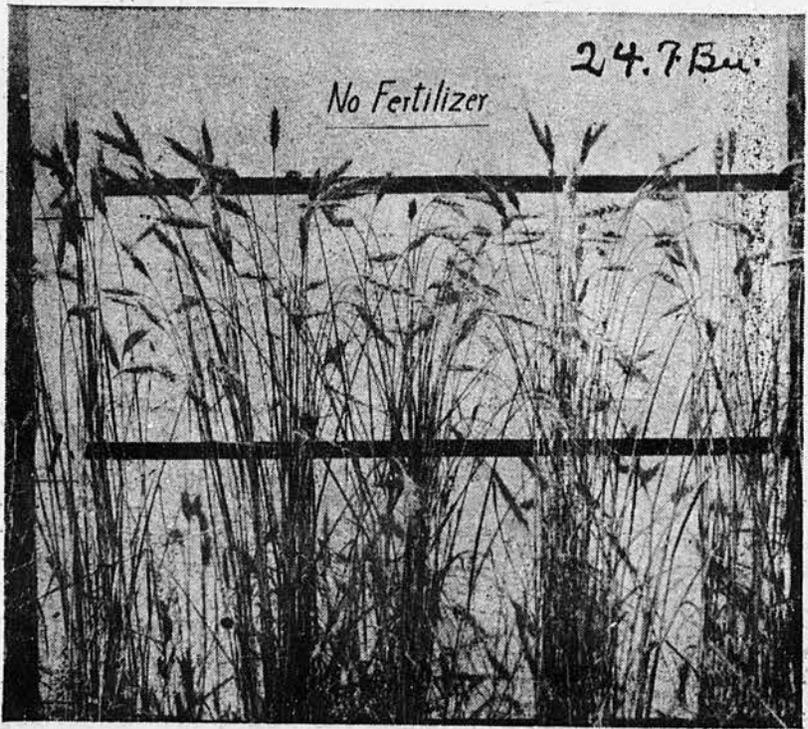
**Apply Nitrate Early For Best Wheat Yields**

NITRATE and phosphate put on wheat last year on the William T. Sack farm, Montgomery county, paid off big. This fertility test also demonstrated that nitrate should be applied early for best results.

Where no fertilizer treatment was applied, the yield was 24.7 bushels an

acre. With applications of 100 pounds of 2-12-6 and 200 pounds of 2-12-6, yield was boosted to 31.6 bushels and 33 bushels respectively. Figuring wheat at \$2 a bushel, increase in dollars an acre from use of fertilizer was \$13.80 and \$16.60.

(Continued on Page 17)



With no fertilizer, wheat on William Sack farm, Montgomery county, produced a good average yield, 24.7 bushels an acre.



Where 50 pounds of 0-45-0 were applied at seeding and 150 pounds of 32-0-0 March 15, wheat yields on William Sack fertility test last year made 44.5 bushels an acre. This increase of nearly 20 bushels an acre cost \$7 an acre for fertilizer.

Superphosphate alone showed more outstanding yields. With 50 pounds of 45 per cent phosphate, the yield was 35.2 bushels. Where 100 pounds of 45 per cent superphosphate were applied at seeding, the yield went up to 40.5 bushels.

But the yields came where nitrate was used with the phosphate, particularly so when nitrate was applied early. In each case where nitrate was used, 50 pounds of 45 per cent phosphate had been applied at seeding time. With 75 pounds of nitrate applied March 15, yield was 43.1 bushels; 150 pounds of ammonium nitrate applied March 15 increased the yield to 44.5 bushels. But where 150 pounds of ammonium nitrate were applied January 15, the yield went to a high of 48.3 bushels. Only difference was in time of nitrate application.

In other sections of the state similar results were obtained with early applications of nitrate fertilizer. Tests show reduced yield with each week's delay in the use of nitrate after March 1.

With 50 pounds of 45 per cent phosphate and 150 pounds of nitrate applied in January, the dollar return for each acre was \$40.60 above the area without treatment. The yield was nearly doubled from 24.7 bushels to 48.3 bushels.

Cost of fertilizer was \$1.50 an acre for 50 pounds of phosphate and \$6 an acre for 150 pounds of nitrate. That's a good return on the investment.

**Big Irrigation Plans**

An additional 5 to 10 million acres of land in Kansas and other range and western states will be brought under irrigation during the next 25 years. This is announced by the U. S. Department of Agriculture. New irrigation development will be in 17 states: Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, New Mexico, Nevada, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington and Wyoming.

Secretary of Agriculture Charles Brannan says: "Development of the remaining areas suitable for irrigation is beyond the scope of private interests, and will require much larger over-all and unit investments than can reasonably be made by private enterprise."

**Saddle and Harness**

The best way I've found to clean my saddle and harness is to rub the leather well with a solution of 1 part vinegar and 2 parts linseed oil. Polish with a clean, dry cloth.—M. E. L.



Best yield on William Sack farm was gained after early application of nitrate. Here 150 pounds of 32-0-0 were applied January 15 after 50 pounds of 0-45-0 were drilled with seed. Increase was nearly 24 bushels an acre at cost of \$7 for fertilizer.

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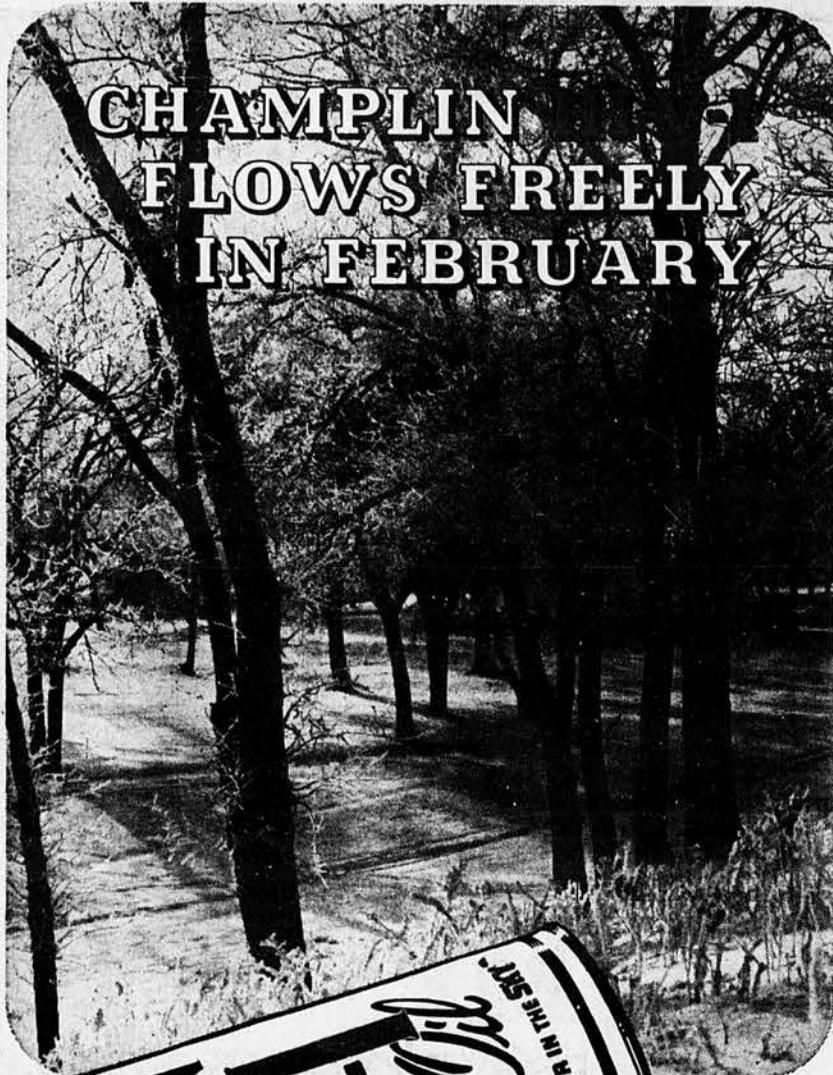
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**You Can Study at Home  
As Servicemen Did Overseas**

*100 Courses Offered Toward Graduation*

By EULA MAE KELLY

**G**ENIAL philosopher, distinguished teacher, rural sociologist—all these titles rightfully belong to Dr. George Gemmill, who, on July 1, retired after 26 years as head of the extension home study department at Kansas State College. In more than 45 years of teaching, Doctor Gemmill has made the whole state of Kansas his campus, and thousands of farms and homes his classroom and laboratory.

Purpose of the man and his department is symbolized by a picture that hangs in his office. Abraham Lincoln is shown stretched out on a humble cabin floor studying by the flickering firelight: Lincoln's words, "I'll study and get ready, and then the chance will come," typifies the ambitious spirit of the 2,600 students who this year took correspondence courses in the home study department.

A far-reaching force, the home study service now carries the advantage of 100 courses to the very door of the home student, enabling him to get that extra credit necessary for high school or college graduation.

One of the earliest forms of extension work in Kansas, the department has been functioning since 1910.

Professor Jesse M. Schall, a member of the home study department since 1930, became head of the department on July 1, but Doctor Gemmill will continue full time on the teaching staff.

**Studied on the Farm**

George Gemmill was himself a home student. Born and reared on a farm 8 miles north of McCune, in Crawford county, he lived on a farm until he was 22 years old. He never attended high school but bought books and studied at home.

"I remember very well," he recalled, "riding into Girard on a load of hay and going to the county superintendent for help on an algebra problem I couldn't solve. The superintendent would help me, outline some more study and I'd go back to the farm to work."

"I took every teacher's examination and by the time I was 18 was qualified myself to teach in country school. After teaching in rural schools a few years, I was made county superintendent in 1907. I held this position 4 years, then went to the Crawford county high school, then located at Cherokee, where I taught science and later served as principal."

The school at Cherokee, like many of the early Kansas high schools, was long on agriculture, with demonstration fields and 50 head of livestock to serve as a laboratory. A young English teacher there at the time was Charles W. Matthews, now associate professor of English at Kansas State. One of Doctor Gemmill's pupils there, Ellen Barr, later came to Manhattan and for 25 years has served as his secretary.

Doctor Gemmill received his first college degree from Pittsburg Teachers College. In 1918, he came to Kansas State College to be an instructor in agriculture in the home study department. Not satisfied with his knowledge of agriculture, he continued to study it and in 1920 received a bachelor of science in agriculture from Kansas State. Two years later, in 1922, he had earned his master's degree in agriculture and education from the same institution. The same year he was made head of the home study department.

**Continued During War**

Doctor Gemmill spoke proudly of the hundreds of students who continued their correspondence courses during World War II. There was the air pilot who prepared lessons on poultry husbandry between flights over North Africa, and the soldier whose textbooks were sunk on board ship. Also, the navy student in the Philippines, who when warned of an imminent move sent an appeal to the home study department by way of amateur radio to forward his lessons and books.

"That lad just took a pot shot into the air. His message was picked up by a short-wave radio fellow in California and relayed on to us. We got the books and supplies to him in plenty of time. Yes, lessons and books from this de-



**Dr. George Gemmill, teacher to thousands on Kansas farms.**

partment have traveled from Tunisia to the Marshall Islands and from France to Tokyo Bay."

Doctor Gemmill estimated that 40 per cent of the students of the home study department now are veterans. Two hundred of the 2,600 enrolled this year are from out of state.

"We probably get to meet half of these students before we are thru with them. But by the time a fellow has written 75,000 words for us in a course, he has told us a lot of things about himself, and I feel as if I know him as well as if I had him in a class before me."

**Farm Folks Come First**

Because he was a country boy himself who did not have many educational advantages, Doctor Gemmill's greatest interest has always been to serve farm people.

"To my way of thinking, the habits, customs, and traditions of rural people constitute the most fascinating study on earth. To balance the educational and cultural advantages of the rural population with that of the city—that has been one of my life's desires."

Thruout the history of Radio Station KSAC, the college station, Doctor Gemmill, has been an ardent supporter. In 1925 and 1926 he served for a year and a half as program director and chief announcer.

For 15 years he was the mainstay of the weekly broadcast of the home study department. His "Observations" on the College of the Air Program earned him a large listening audience. In recent years he worked out a series of 52 radio talks by going thru the alphabet twice. Hence, his subjects ran like this, "Atlas, Astronomy and Agitators," then "Bombs, Brooms and Barbarians."

"It has been my experience that any audience, radio or otherwise, is more pleased with commonplace philosophy than some flight of erudite learning. One of my speeches on Aristotle didn't have half the appeal of one about a small boy with jelly on his face."

One of his enthusiasms has been the development of the state-wide rural pastors' conference in connection with the annual Farm and Home Week. At the suggestion of Dr. F. D. Farrell, he, Dr. Randall Hill, and Dr. A. A. Holtz have been largely responsible for bringing in several hundred rural churchmen of every denomination for a discussion of common problems here at the college.

If George Gemmill has hobbies beyond simple kindness and interest in human nature, they are fishing and writing in his diary. For 11½ years he has kept a meticulous daily diary—marvelously neat and brimful of the serene philosophy he radiates.

"I write between 400 and 500 words a day—just everyday happenings with a bit of thought thrown in. It will be a kind of heritage for my children and grandchildren, something I wish my grandfather had left me."

(Continued on Page 19)

In his 11½ years of diary keeping Doctor Gemmell has written a total of 1,667,000 words.

Asked if he had ever written out a philosophy or a creed for rural Kansans, he reached into his desk, pulled out a neatly labeled box, and quickly produced a portion of a 4-H Sunday speech he made at Tribune, in May.

"There, I believe that does it as well as I ever could." Quoting from the Tribune speech is this Gemmell philosophy:

"I had thought of proposing to you a creed for rural Kansans but soon learned that my knowledge was too limited for that. So instead may we ask a series of questions to determine whether such a creed could be written and whether we could agree on some of the basic principles.

"Could we agree that a herd of white-faced cattle, grazing on these Western plains, uniformed like a company of soldiers, but engaged in the chemistry of nature—transforming green grass into food fit for a king—could we agree that no place in art or science can be found anything more wonderful?

"Could we agree that a home in which there are little children who play in the open air, under God's sunshine and away from noisy streets—little fellows who inspire men and women to better living, could we agree that such a scene in any rural community is a finer piece of art than any ever painted by Raphael, Michael Angelo, or any of the classic masters?

"Could we agree that ten thousand

tractors manned by Kansas youth is the mightiest army for good that has ever assembled?

"Could we agree that education of the masses thru church, school, and home is the only means of elevating men and women to the place in creation that is rightfully theirs?

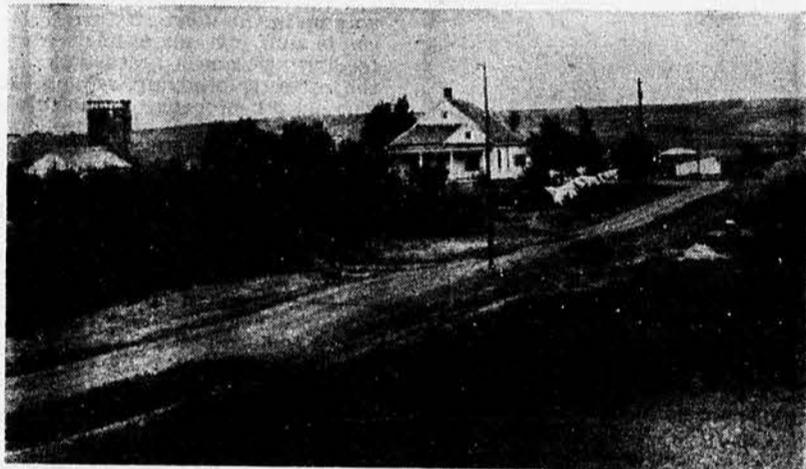
"And could we further agree that the best laboratory is the one with natural setting—where the artificiality of checks and measuring rods may be eliminated—a farmstead planted to trees and shrubs, with flowers that bloom in their season, with conveniences and comforts for both man and his animal servants?

"Could we agree that here in Kansas in such a setting, in a new Garden of Eden may be found the answers to most of the questions that are puzzling mankind?

"And finally could we agree that no great religion ever originated in a city, and that from the days of Buddha and David—all along thru history—men have found their greatest satisfaction in their struggle toward the infinite—in green pastures and beside the still waters? In rural symbolism, the rod and staff of the shepherd, the plow and the sickle of the husbandman, have comforted mankind.

"So I submit a challenge to the men and women of Kansas the writing of a creed to which all youth and older folk can subscribe and that it will be the churches, the schools, and the homes of Kansas that shall formulate it."

### Balanced Plan Makes Farm Pay



This view of the William Henry farmstead, in Saline county, shows how trees can dress up a home. The silo and modern laying house which they have put up in the last few years appear at left. (Photo courtesy SC5.)

START with a well-balanced plan, then make it work. That is what Mr. and Mrs. William Henry, Saline county, did on 240 acres in 1942. As a result they were among the first in the county to pay off a tenant-purchase loan.

They have done considerably more than pay off the loan. Remodeling was necessary on the home. A modern, 20-by 40-foot laying house was built. Mr. Henry set up a 14- by 30-foot silo and last fall built a new shelter for his cow herd. In addition to that he improved the appearance of the farmstead with a shelterbelt that protects west, north and south sides.

Roughly the acreage is half cropland and half pasture. On the cropland Mr. Henry has been working on a legume rotation using both alfalfa and sweet clover. To help hold the soil intact he has terraced about half the cultivated acreage. That just about tells the story on his cropland, a farming plan devised to improve the fertility of his soil.

To really make the farm pay, he worked with a livestock and poultry

program that would give him an income thruout the year. Hatching eggs from his chickens gave him a higher price for eggs to make that department more profitable. With a herd of 20 to 22 cows he had an income from milk and beef sold. The cow herd helped him utilize his pasture acreage and hay produced from the legume rotation. In another year Mr. Henry plans to improve his dairy program with a new milking parlor. It will enable him to produce grade-A milk. That again will mean extra profits from the same program.

Balance in their program has changed this farm in a few short years to a desirable home.

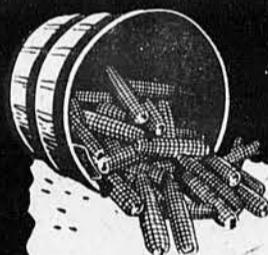
#### See How Plants Grow

Radioactive isotope tracers are being used by plant scientists to learn new facts on how plants grow and utilize soil nutrients. Radioactivity makes it possible to trace a radioactive element in the soil and thru plants.

In the fertilizer field, for instance, experiments with radio-phosphorus have revealed that crops vary in their use of fertilizer phosphorus. In field experiments, corn used most of the phosphorus during early stages of growth, but when the crop was near maturity, the fertilizer supplied only a small part of the phosphorus of the plants.

In contrast, potatoes on the same soil leaned heavily on the fertilizer at all stages. Cotton and tobacco used more fertilizer phosphorus during early growth. It is possible to use radioactive sulfur, calcium manganese, zinc, iron and chlorine. By using these radioactive chemicals, scientists hope to point the way to more efficient use of fertilizers on farms.

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Three Kansas State College publications now available will be of interest to many of our subscribers. They are: Circular No. 150—Accounts for Kansas Farms; Circular No. 161—Raising Dairy Calves; and Circular No. 184—House Plants and Their Care. The information is reliable on each subject. Please address Bulletin Service, Kansas Farmer, Topeka, for a free copy of these bulletins, ordering by number.

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## Combines Ranching and Milling

*Also Heads American Hereford Association*

WHEN it comes to ranching and Herefords and a business closely associated with agriculture, Kansas has a native son mixed up in all 3 and a lot more—John J. Vanier, of Salina. He owns CK Ranch at Brookville, is newly-elected president of the American Hereford Association, and is one of the biggest milling operators in the Midwest.

Mr. Vanier's efforts in behalf of Kansas agriculture, however, are worthy of close attention. He has been keenly interested in developing cattle-feeding and farm programs that fit Kansas conditions. It is significant that all of his interests seem to point to this objective, well-integrated toward the idea of better farming.

CK Ranch, located about 15 miles west of Salina, is a landmark in the cattle business. Its fame is nation-wide, for many Hereford herds have parentage stemming directly from the CK line. He started the herd in 1936.

Vanier's milling interest starts with the Western Star Mills in Salina, makers of Kansas Star and other well-known brands of flour and feeds. He has had the controlling interest in this enterprise since 1925 and is variously associated with the Weber Flour Mills, Gooch Milling and Elevator Company,



Joyce Vanier, only daughter in the Vanier family, makes herself useful about the office of the big Salina flour mill the family owns, besides keeping track of what's going on at the CK Ranch where Hereford cattle are supreme.

Lincoln, Nebr., and the Inland Milling Company, Des Moines. He also has had association with the Topeka Flour Mills and Goerz Flour Mills in Newton.

The Vanier family also is very ranch-minded. Father, mother, daughter and 2 sons all are deeply interested in the farming and cattle-raising problems of Kansas. Daughter Joyce is working her way up in the Western Star Mills, one son is studying animal husbandry and feeding at Kansas State College, and the other is studying milling. Joyce also helps keep books on the extensive Hereford operations at the ranch.

Bern, Kan., lays claim to being the birthplace of John Vanier. That was back in 1897. The Atchison, Topeka and Santa Fe railroad gave him his first job, as office boy in Topeka, when he was 15 years old. From there, Vanier worked at stenography, got a start in the grain business with the E. D. Fisher Commission Co., in Kansas City, moved to the Abilene Flour Mills as a stenographer, spent a year in the Marines, returned to Abilene until 1925.

By then he was ready to get into the milling business for good and bought control of the Western Star Mills. The succession of milling ventures following that is a part of Kansas history. Kansas agriculture owes a lot to this native son.



John J. Vanier Salina, president of the American Hereford Association and proprietor of CK Ranch, Brookville.

## Hold 3-Way Farm Week

*Brush Up on Dairying, Crops and Bees*

SOME 600 farmers brushed up on the latest scientific information on dairying, agronomy and beekeeping at the 81st Annual Agricultural Week, held on Kansas State College campus February 1, 2 and 3.

"Dairymen must breed their cows to spread milk production more evenly thru the year," said Dr. W. W. Yapp, department of dairy husbandry, University of Illinois. "The general practice of having cows freshen in April to flood the milk markets in May and June must be changed to give processors a better chance to sell a maximum amount of dairy products," Doctor Yapp said. "The cows that freshen in November and December make the most net profits," he added.

Discussing dairy-breeding management, Doctor Yapp told dairymen that the only way to get rid of bad qualities they don't want to keep in their herds is to get rid of the animals having those bad qualities. "It is folly to believe," he said, "that a cow having serious faults will not pass them on to her offspring. The breeder must sort out and keep the best he has, then bring in superior bulls for improvement. Altho the bull and the cow have about an equal influence on the calf, the bull is most important because its faults will be repeated thruout the herd in a short time."

In choosing a new bull, Doctor Yapp said, "if a dependable index can be computed for the bull it should be 10 to 20 per cent better than the average production of the herd in which he is to be used."

Fred S. Idtse, secretary of the na-

tional Brown Swiss Cattle Breeders' Association, Beloit, Wis., said the gains being made for oleo are only the opening wedge for other milk-product substitutes. "We need to re-emphasize quality of dairy products after the let-down that occurred during the war," he said. He also added that the dairy industry is falling down on selling its products to the public and must expand its efforts on that point.

Discussing the world food-supply problem, L. E. Call, dean emeritus of the department of agriculture, Kansas State College, divided the subject into immediate and long-range problems.

"Altho Western Europe crop conditions are improved this year, they will continue to need large amounts of grains and feeds for some time," he said. "They will continue to get these from the U. S. so long as we provide the dollars with which to buy them. Western Europe always has been unable to grow enough grains and feed for its needs.

"China, Japan and other eastern countries will take all the food we will give them, but are not and will not be paying customers. Increased food exports to those countries would be offset almost immediately by increased population, so there is little chance of improving their food situation."

Taking the world food problem from a long-range viewpoint, Dean Call said that increasing population thruout the world, plus dwindling soil fertility, would wipe out surpluses possibly by 1960, except for the possible exception

(Continued on Page 21)

of wheat. "How well the world can feed itself in the future will depend upon the standard of living it is willing to follow," he concluded.

"Fertilization cannot be expected to be the cure-all for nutritional problems pertaining to animals and men, and should not be expected to replace judgment in balancing feeding ration or diet," farmers were told by Dr. Harold Myers, head, agronomy department, Kansas State College. "From a practical point of view, it appears that the producer should fertilize his crops and soils liberally for increased yield and expect the quality of crops to be improved somewhat," he said. "However, seasonal variation in quality of forage crops and variations between different kinds of plants usually will be greater than differences due to fertilization."

"We need to increase foundation stocks of legume and grass seed in the U. S. by 25 per cent, farmers were told by Dr. O. S. Arman, of the Bureau of Plant Industry, USDA. Lack of sufficient stocks of adapted and improved strains of grasses and legumes is holding back the development of a sound land-use program in this country, he said. Federal and state agencies interested in seed production and distribution are now working out a nationwide program of increasing foundation stocks for wide distribution, he added. For the first time since 1938, yield

tests from all 1948 corn-performance test plots in Kansas were available, according to A. L. Clapp, of the Kansas State College department of agronomy. Nine tests over the state each compared from 40 to 72 varieties and hybrids, Professor Clapp reported. In addition to these, the college has complete reports on 35 co-operative strip tests on farms and from 8 experiment-station tests.

The highest yield in the corn-performance tests was in Doniphan county, where K2275, a white hybrid, made 123.7 bushels. Sixty hybrids and open-pollinated varieties averaged above 100 bushels an acre in the Doniphan county tests, he reported.

Complete results of all corn-performance tests in Kansas are now available at your county agents, or can be obtained by writing the Kansas Experiment Station, Manhattan, for Bulletin 340, entitled "Kansas Corn Tests for 1948."

The Beekeepers' program at the college was divided into 2 sections—one for advanced beekeepers and one for beginners. Subjects discussed included simple record keeping, distribution and control of sweet clover weevil, honey production versus honey marketing, principles of cost of marketing, methods of honey marketing, colony needs for the year, and types of honey production.

### For Greatest Benefit to All

Extension Service Should "Be on Its Own"

STATING that "Extension Service can be of greatest benefit to all when everyone feels free to participate in the program on the basis of its merits alone," Dean L. C. Williams, director of Extension, Kansas State College, has endorsed setting up Extension services under County Extension Associations.

Dean Williams made the formal endorsement at a meeting with newspapermen in Topeka, after repeated requests from farm people that Extension officials clarify their position on the proposed law to separate Extension from Farm Bureau sponsorship.

In stating his position, Dean Williams said he believed the Farm Bureau and all other farm organizations would benefit if members could work with the Extension program without the limitations that now apply. The dual responsibility that the Farm Bureau has in sponsoring the Extension educational program, plus its own commercial services and legislative activities, has become increasingly confusing, both to Farm Bureau members and to those outside of the organization, Dean Williams explained. "With 2 organizations, each operating in its definitely assigned field of activities, this confusion should be eliminated

and each person could then freely choose to work and participate in one or both organizations."

Charles Topping, Douglas county farmer and Farm Bureau member, who is president of a new temporary farm group called "Friends of Extension," recently announced the group would sponsor a bill in the present legislative session to divorce Extension from Farm Bureau sponsorship.

### 225 New Industries

About 225 new industries have been established in Kansas during the last 2 years, announces Maurice E. Fager, K. I. D. C. director.

"A great many of these industries were brought into the state," says Mr. Fager, "but more than half were created within the communities by local management, with local capital, to utilize local resources."

One out of every 5 Kansans now on a payroll is engaged in manufacturing, adds Mr. Fager. The average number of persons employed by industries of the state in 1948 was about 84,300, an increase of almost 3 1/2 per cent over 1947. Kansas is rapidly balancing industry with agriculture for a more stable economy, many believe.

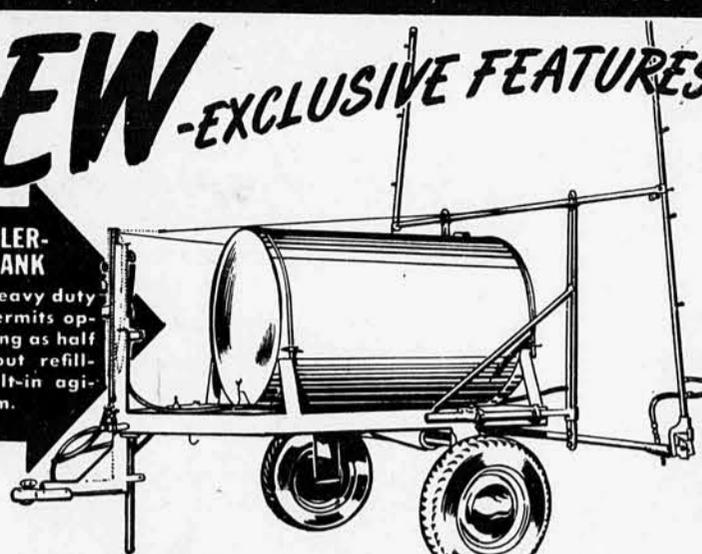
### GRANDMA . . . By Charles Kuhn



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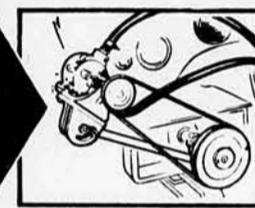
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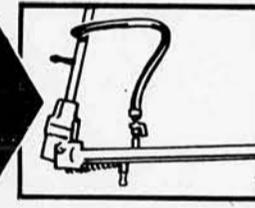
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**TRACTOR-POWERED PUMP**  
Unique pump readily attaches to power take-off of any tractor. Gives pressure up to 300 lbs.



From power take-off pump to improved type spray boom, it embodies features that prove their worth in hard-to-get-at places . . . edges of row-crop fields, along fence rows . . . as well as in the field itself and on pasture land. Fully equipped too for spraying of trees, buildings, livestock.

**PERFECTED BOOM**  
Positive cut-off, non-drip boom. No wasted solution, no over-spraying. Extra strong steel 2-way hinges.



Convenience, simplicity, sturdiness, precision control . . . all these add up to thorough, efficient performance . . . at savings in time and money.

**ADAMS**  
**HARD-FACING CO.**  
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See this new sprayer and full line of Adams spray equipment at your Adams dealer. Or write us for details and prices.

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## ONLY BAZOOKA SPIRAL GRAIN LOADER

Has the Famous FLEXODRIVE (Pat. Pend.)

### With CARRIER MOUNTED ENGINE DOWN Where YOU CAN CONTROL IT!

Flexodrive takes the power plant off the tube, brings it down LOW where you can get at it. Only Bazooka has this time, labor, money saving feature. In addition, Bazooka's sectional tube construction makes it easy to add 5 and 10 foot extensions at any time for any length from 16 to 31 feet. Investigate Bazooka, the best grain loader buy. Two models with or without Flexodrive and carrier. Sold by dealers. Fully described in new **FREE CIRCULAR**. Write today.

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Jayhawk Farm Implements Since 1903  
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Bazooka without Flexodrive and carrier at lower cost and in 11 foot and 16 foot basic lengths, with 5 and 10 foot extensions.

Bazooka equipped with swivel bracket to fit on truck or trailer.



1. Direct Flexible Shaft Drive.
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3. Simple Throw-out Clutch at Your Fingertips.
4. Adjustable Tripod and Engine Mounting.
5. Moves up to 1320 Bushels Per Hour Without Cracking Grain.
6. Improved Design, More Rugged Construction in 1949 Models.



## What clothes for

# Baby?

By Pat Salisbury

**S**ELECTING a layette for your first baby is one of life's most thrilling experiences. Those darling ruffled bonnets . . . the dainty silk sacques . . . the lace-trimmed christening frocks in the stores are so irresistibly lovely that you want to buy them all! But whether you are expecting your first baby or your fourth, and whether you plan to buy baby's wardrobe ready-made, or stitch most of it up on your sewing machine . . . making wise selections is really a serious business. Baby's health and comfort may be at stake. And in these days of high prices, mistakes are pretty costly.

Here are a few things I've learned the hard way in buying for my 3 babies. They may be of help to you.

Buy the best quality you possibly can afford. A well-made garment of good material will outwear 2 or 3 shoddy ones and prove economical in the long run. If this is your first baby, remember that most things always may be handed down.

Buy . . . or make . . . within reason, of course, as many of each garment as you can. If a spell of bad weather delays washday, it's nice to know baby has enough clean clothes. And you won't have to scurry around trying to dry things on the oven.

Buy only things that will wash. I know the silk sacques are darling. But it won't take your baby 5 minutes to dribble milk down the front. Unless you have plenty of money for cleaner's bills or plenty of time to do fancy hand laundry, you'd better stick to cotton garments. They'll really look pretty longer. Cut down on laundry, too, by using plastics whenever you can. Plastic bibs, lap bibs, waterproof pants and protective sheeting for cribs are among the postwar wonders.

Another thing I've learned is to buy only basic items before the baby arrives. And you won't need to decide whether it's to be pink or blue . . . no one gives a fig about that custom these days. But you are sure to get most of the frills as gifts. You might even ask your family and friends to delay their purchases until you see what you need. You may get a dozen pairs of booties and not a single blanket!

The most important item in a baby's layette of course, is the diaper. Two popular types are the old-fashioned bird's-eye square, about 30 by 30 inches, and the oblong gauze diaper, about 18 by 30. The bird's-eye is more absorbent and can be folded to fit a larger child. But the gauze type will fit most babies until they graduate to training pants, and it

dries rapidly. It also is the right size to use as a sheet in most bassinets and carrying baskets. A brand-new type of diaper on the market is shaped to fit the baby's body and requires no pinning. You also may want to consider disposable diapers or pad pants with disposable fillers. It is nice to have at least a few of these to use at times when you are ill or too busy to wash or when on a trip.

How many diapers will you need? No one seems to agree on that. But babies soil about a dozen a day, so you can judge the number you want by the frequency you plan to wash. Three or 4 dozen probably are enough.

In selecting shirts, consider the weight of the material, length of sleeves, type of opening and size. Short sleeves are warm enough in most Midwest homes, but if yours is to be a winter baby, you may want to get a heavy weight. The pullover type of shirts look neat, but those with side openings are easier to put on a tiny baby. Three-month size garments fit most babies nicely at birth, but if rigid economy is important, you may start with the 6-month size.

For his sleeping garment, baby will need 3 or 4 nightgowns. These, too, are available in different weights. For cold weather, the type with a drawstring at the wrists and bottom is ideal.

### Redhead's Choice

Small Susan wears a shock of hair  
So red, it's most beyond compare,  
And on her little tilted nose  
A dozen freckles repose.

She's as cute as a speckled pup  
Yet when I go to dress her up,  
In blue or green, for harmony,  
She resorts to mutiny!

She minds the freckles not at all  
Nor does her carrot hair appall  
But she sets her stubborn little head  
And wants all her dresses red!

—By Mary Holman Grimes

When they are tiny, both boys and girls wear simple kimonos in the daytime. These may be made of flannel or cotton jersey. Since flannel has a tendency to rough up after laundering, you may prefer cotton jersey. It washes beautifully and needs no ironing.

For dress-up occasions, little boy babies generally wear knit suits and little girls wear dresses. The dresses should not be long enough to hamper baby's legs and may be made of either batiste or cotton jersey. Make or buy your dresses in pretty pastel colors and they will be lovely without fancy trimmings.

Your choice of an outdoor garment will depend on how old your baby is to be his first winter. If he is to be born this winter, you probably will need a cuddlenest, which is a quilted satin envelope with a waterproof lining. A 3- or 4-months old baby will fit nicely into a wool bunting with an attached hood. A baby over 6 months, or an unusually large baby, will need an infant's-size, one-piece snow suit. The baby can be put into the bunting or snow suit in his indoor clothing, but with the cuddlenest, he will need to wear a knitted jacket and bonnet.

As long as baby sleeps in his bassinet, you can put his wrapping blankets over him at night. After he graduates to a full-size crib, you'll need 2 larger wool blankets and will probably want to invest in a snuggleduck. This modern invention is cut like a sheet at the bottom but zips up around baby's body and arms at the top so he can't become uncovered. These come in winter and summer weights and are really a "must." Last of all . . . remember a piece of plastic or rubber sheeting to protect your mattress.

Basic items to buy before baby is born: 3 dozen or more gauze or bird's-eye diapers, 3 to 6 shirts, 3 to 6 nighties, 3 to 6 cotton jersey or flannel kimonos, 2 flannel wrapping blankets, 2 large, soft towels and washcloths, 6 or 8 crib sheets, rubber or plastic sheeting.

Items you will need later: 2 wool wrapping blankets, 2 crib-size wool blankets, 1 carriage robe, booties or felt shoes, 2 sweaters, 1 wool jacket and bonnet set, 4 knitted soakers or plastic pants, 2 plastic lap pads, 2 plastic or 6 terry cloth bibs, batiste or cotton jersey dresses or cotton or knitted suits, depending on boy or girl, 1 cuddlenest or bunting, 1 snuggleduck.

Homemaking

Dean Justin to Be Honored



Dean Margaret M. Justin poses for her portrait, being painted by Mrs. Elfrieda Johnson Peterson, of Manhattan.

FEBRUARY 25 will be honor day at Kansas State College. In the evening at Thompson Hall on the campus, Dean Margaret M. Justin, of the school of home economics, will be honored by her friends and co-workers for her 25 years of service to the profession of home economics and to Kansas families. Born at Agra, in Phillips county, she was and is a Kansan.

In the summer of 1923, Dean Justin arrived on the Kansas State campus as dean of the division of home economics, the same campus where she had received her bachelor of science degree in 1909. Armed with the experience of those in-between years and a doctor's degree from Yale University, she undertook the administration of a division already recognized for pioneering work under women like Mrs. Nellie Kedzie Jones.

Increase in Enrollment

In 1923, there were 350 undergraduate students and one young woman working toward a master's degree. Today there are 760 students and 40 working toward master's degrees. In 1923 there were but 4 departments: applied art, clothing and textiles, food economics and nutrition, and household economics. Now there are 2 more: child welfare and eugenics and institutional management. Students now may specialize in any one of these fields, or in home economics education or home economics journalism. Plans are under way for graduate work which will make it possible to grant a Ph.D. degree in one field.

Five years after Dean Justin took the reins, a nursery school was set up with Dr. Helen Ford in charge. This was the first nursery school in the country supported by state funds. Dean Justin also established one of the first courses for those wishing to be home demonstration agents. Her former students are now working in this profession all over the United States.

Altho there has been this enormous expansion in student body and program, the old home economics building, built 42 years ago and now called Calvin Hall, still houses most of the departments. The art department, long housed in Anderson Hall, has taken

over more rooms on the second floor. Classes in household economics and institutional administration are conducted in Thompson Hall, the cafeteria building and practice work in dietetics and institutional management is carried on in Van Zile Hall, the dormitory for girls.

Very recently, the college built and furnished 3 home-management houses, houses in which the upper-class women live and apply what they have learned of home management. These new buildings are made of limestone to conform with other buildings on the campus.

Dean Justin, in planning the curriculums during her 25 years at the college, has been concerned always about service to the women of Kansas. She has been interested in improving home economics teaching and to help accomplish this, she has encouraged the writing of high-school and college textbooks which will help the teacher do a better job.

She, with members of her staff, wrote textbooks which have been in wide use in Kansas for many years. Every book produced has been kept up-to-date by frequent revisions.

To Improve Teaching

"Home and Family Living," by Dean Justin and Mrs. Lucile Rust, of her staff, now is in its 4th edition and is used widely thruout the United States. Eight textbooks have been written for college use and all enjoy continuing popularity. Other high-school texts have been written on foods, clothing and the home. All this writing was done in an effort to improve teaching of young women, with the end result in mind of improving homemaking and family life in Kansas and the country as a whole. A dozen bulletins on many phases of home economics have been written by her staff for distribution to Kansans.

In addition to a staff that writes, they take advanced college work, occasionally spend sabbatical leave in travel. Ten members are now studying in various institutions to be better prepared to do a good teaching job when they return.

In 1928-29, Dean Justin was president of the American Home Economics Association, also national president of Omicron Nu, honorary and professional organization for home economists. She has for years held both national and regional offices in the American Association of University Women. She is outgoing chairman of the home economics division of the Association of Land Grant Colleges. She is director of the workshop for home economics deans conducted in Colorado each summer. She has given constant support to the Kansas Home Economics Association, having served from its beginning as counselor.

To be of help to the student who attends college one or 2 years at most, the curriculum now includes basic

(Continued on Page 25)



Good together  
-for breakfast

Fluffy Scones

RECIPE: Mix and sift 2 cups sifted all-purpose flour, 3 tbs. sugar, 1 tsp. salt and 3 tps. baking powder. Blend in 5 tbs. shortening. Mix 2 beaten eggs, 1/3 cup milk, stir into mixture. Turn out on lightly floured board and halve. Roll each 1/2" thick to fit 6" pie pan. Mark in quarters, cutting nearly through dough. Brush with egg diluted with milk, bake in hot oven (450° F.) about 15 min. Portion, split, butter and fill with jam. Serve hot.

Flavorful Coffee

Lift your cup of steaming Hills Bros. Coffee, and breathe deep of its wonderful fragrance! Here's a blend of the world's finest coffees . . . bringing you flavor that's a delight to anticipate, and to taste. This goodness is uniform, too. "Controlled Roasting," an exclusive Hills Bros. process, roasts the blend a little at a time—continuously—to assure the same delicious flavor in every pound. Vacuum-packed so it's always really fresh.

2 GRINDS

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- ✓ Drip and Glass-Maker Grind



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For Party Leaders

- Mary Ann's Chapter for Brides and Mothers. Price 5c.
- Bride-to-be Tea Shower. Price 3c.
- The Mock Wedding—play. Price 3c.
- Balloon Birthday Party, for children. Price 3c.

These are suggested leaflets which may be found useful to program chairmen or party leaders during winter months. Orders will be handled promptly if sent to Entertainment Editor, Kansas Farmer, Topeka.

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"Always Covered with Blooms"

**Regal LILIES 10¢**

Blooms Anywhere for Years! Easily a 75¢ Value Blooms Anywhere for Years!

I am making this special bargain offer of 5 REGAL LILY bulbs to get acquainted with new gardeners. I want you to see my full line of seeds and nursery stock. So, along with each order for bulbs, I'm going to send my new 1949 Seed and Nursery Catalog, and a FREE subscription to my little magazine "Seed Sense," which comes to you throughout the year.

**Aristocrat of All Garden Flowers**

Almost no flower grows easier, or produces more blooms than the lovely REGAL LILY—favorite of all lilies. Its graceful, pure white flowers, tinged lightly with lilac on the outside and yellow on the inside are an inspiring sight in the garden for weeks. With up to 50 blooms on a single plant, it's no wonder they are called the "Aristocrat of All Garden Flowers." And they are easy to grow—will withstand any heat or cold—and always bloom.

Here's your chance to get five healthy lily bulbs that will bloom profusely in your own garden. Worth many times this price, and the best value I have ever offered. Will bloom in your garden for years to come. Send 10¢ today. Get this big value and Seed Sense, too!

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Henry Field, 1724 Elm St., Shenandoah, Iowa

Dear Henry: Send me your 5 famous Regal Lily bulbs (75¢ value). Also, send your 1949 catalog and "Seed Sense" Magazine. I have enclosed a dime to help with the mailing.

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tells of crippled children made whole! Of sad parents made happy! It tells how you may help in this expanding program of healing. Write for your free copy of the story today.

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Do you suffer distress from 'periodic' **FEMALE WEAKNESS**

With Its Nervous, Highstrung Feelings?

Are you troubled by distress of female functional monthly disturbances? Does it make you feel so nervous, cranky, restless, weak, a bit moody—at such times? Then do try Lydia E. Pinkham's Vegetable Compound to relieve such symptoms! Women by the thousands have reported remarkable benefits.

Pinkham's Compound is what Doctors call a uterine sedative. It has a grand soothing effect on one of woman's most important organs. Taken regularly—Pinkham's Compound helps build up resistance against such distress. It's also a great stomachic tonic! All drugstores.

**Monthly Female Pains**  
Pinkham's Compound is very effective to relieve monthly cramps, headache, backache,—when due to female functional monthly disturbances.

**Change of Life**  
If the functional 'middle-age' period peculiar to women makes you suffer from hot flashes, weak, highstrung, irritable feelings—try Pinkham's Compound to relieve such symptoms. It's famous for this purpose.



**Lydia E. Pinkham's VEGETABLE COMPOUND**

**Homemaking**

**For a Party Meal**



Make a simple white loaf cake for Washington's birthday. Atop the white icing, make groups of cherries, stems and leaves.

WHEN the cold, snowy days of February come around, we like to serve those special meals that please the young folks.

For Washington's birthday, play up cherries. You may have plenty of them in your canned-fruit cupboard and now is the time for them. Make a simple white loaf cake, glamorize it with shining white icing upon which you add bright red cherries and green stems and leaves. To do this lay several cherries on the icing and pour green-colored icing on to bring out the effect of cherries, leaves and stems. This for

dessert on the holiday or for a gala party.

Or you might make a cornstarch pudding, mold it in a ring mold which, of course, has a hole in the middle. At serving time, fill the center "well" with drained canned cherries, surround the base with more cherries and pass a rich, creamy cherry sauce made from all the juice and the remainder of the can of fruit.

These are ordinary foods dressed to give them a gala touch for the February holiday. Our families appreciate these things more than we realize.

**Books on Review**

Let's resolve to do more reading in 1949. When you sit down to relax in the evening, pick up a book. And when you go to town on Saturday, stop at your library for a book to read during the coming week.

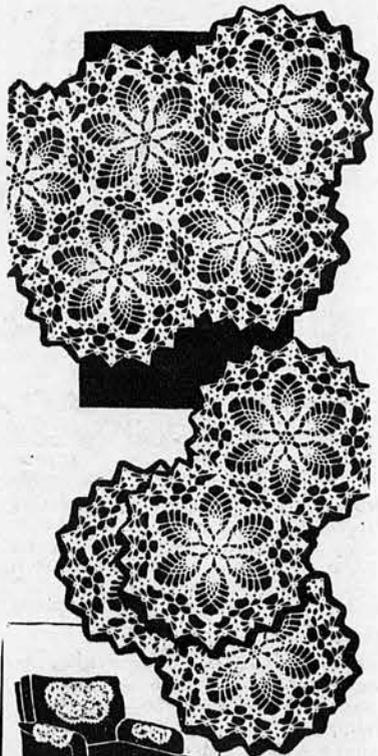
The written word opens new worlds to the stay-at-home. From your comfortable armchair, you can visit faraway places, read about faraway peoples. It will keep you informed on current events and legislation. As a good citizen you owe this to your family, community and country.

From time to time, we offer book reviews. Some tell of new books, only recently off the press, others are older books which have stood the test of time and the literary critics. Not all

They raise sheep, make and sell jams and jellies from the wild fruits of the hills. There are plenty of exciting experiences and amusing incidents which are everyday fare for the author and her husband.

This chronicle of the Ozarks might well be read by all Midwest readers for it gives real history of their own home country. It is published by Grosset and Dunlap, of New York City, at \$1.00.

**A Prize Winner**



7450

*Culture is a refinement of manners and morals, in other words it consists of what does not come naturally.—*  
By A. C.

books for sale are worth the reading time. It takes no longer to read the works of a reliable writer than any other. A worthwhile book may inspire, entertain or inform, better still, some do all three.

We have received many letters from readers of this department, most of whom ask the question, "Where and how may I buy the book?" There are several ways to buy a book. Your local bookstore is the best place. If there is none, write to a bookstore in any nearby city. Each book review mentions the name of the publisher and the retail cost of the book. An order to the publisher is another way to get a book. Many of the books mentioned may be obtained on the loan basis from a public library.

From the standpoint of satisfaction and profitable leisure time, it is well to study book lists, read book reviews and talk with your librarian.

**Take to the Hills**

This is the story of Sunrise Mountain Farm, deep in the Ozark Hills, where the author, Marguerite Lyon, and her husband, the "Jedge," moved from the noise and confusion of Chicago. From cover to cover it is crammed with the small details of farm life.

Nine simple-to-crochet medallions for the chair set. More will make either a bedspread or a tablecloth.

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



"The folks at our house know this: the sure way to get lighter, fluffier cakes is to use the fluffy baking powder—KC." You can count on KC Baking Powder to give that "melt-in-your-mouth" fluffiness every time. Try KC and SEE how much better all your baking turns out.

**We pay for your cake!**

If you don't like KC Baking Powder better than any other, send us what's left in the can or jar, telling what you made with KC. We'll refund purchase price of KC and your postage plus the cost of all ingredients you used for a cake or batch of biscuits.



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**"NO LONGER NERVOUS!"**

**Switching to Famous Cereal Drink Brings Natural Relief**

Jittery?... Irritable?... Can't enjoy life fully?... People everywhere—people who once suffered just as you do—have found the answer in switching from coffee and tea to POSTUM.



**EXAMPLE:** A woman in New York City writes this sincere and moving letter: "My switch to POSTUM has given me a new lease on life! I no longer fear the sleepless nights and the nervous tired feeling that made life a bore!"

**SCIENTIFIC FACTS:** Both coffee and tea contain caffeine—a drug—a nerve stimulant! So while many people can drink coffee or tea without ill-effect, others suffer nervousness, indigestion, sleepless nights. But POSTUM contains no caffeine or other drug—nothing that can possibly cause nervousness, indigestion, sleeplessness!

**MAKE THIS TEST:** Buy INSTANT POSTUM today—drink POSTUM exclusively for 30 days. See if POSTUM doesn't help you, too, to sleep better, feel better, enjoy life more!... INSTANT POSTUM—A Vigorous Drink made from Healthful Wheat and Bran. A Product of General Foods.

**Homemaking**

**Dean Justin Honored**

(Continued from Page 23)

courses for freshmen and sophomores, to prepare them for good homemaking. Since Dean Justin instituted this policy, it has been adopted widely in other colleges.

The teaching and research staff now numbers 82, nine of whom have doctor of philosophy degrees. Throughout the years there has been a steady increase in enrollment in home economics at Kansas State. This testifies to the worthiness of the school and its standing in the state and nation.

Today, the research program has a share in regional and national projects in all fields as they have opened; textiles, housing, household economics and foods and nutrition. Projects are financed by commercial, federal and state funds.

One of the nation's leading home economists who made a professional study of home economics schools throughout the nation, said, "Nowhere in all the schools I have visited, have I found such provision for faculty growth, such high faculty morale, such excellent preparation of students, such good faculty-student relationship."

The school has been represented at every White House conference for children, and during the war years took a major part in the state nutrition program.

The home economics program at Kansas State College has ever kept in focus the family and its day-to-day needs, has served the women of the state thru their organizations. Says Dean Justin, "Home economics is more than skills, it embraces the spiritual as well. To quote Ellen H. Richards, an early pioneer in the field, 'it frees the home from the tyranny of things.'"

For this contribution to improved family living in Kansas and thruout the United States, Dean Margaret Justin is being honored with a recognition dinner and presentation of her portrait, painted by the able Kansas painter, Mrs. Elfrieda Johnson Peterson, of Manhattan.

**The Power of Education**

What are called "social distance studies" have been conducted in selected Midwest schools for the past 2 years. About 1,500 students were asked to place 20 given emotional adjectives such as "cruel" and "kind" under the names of many of the countries of the world.

Before they were given any background information about these countries other than what they had absorbed in the past, in the classroom, over the radio, and in the newspapers, the United States and China rated in first place as the most desirable countries of the world. Japan and England were the countries disliked most.

Then the children studied the culture of all the nations and another test was given. United States still ranked first as most desirable but India replaced China. "Which shows," said those conducting the studies, "that you can teach children anything. The power of education and propaganda is terrific."

**Bulb-Planting Time**

Narcissus and hyacinth bulbs may be planted in January, February and March. Plant in dishes at least 3 inches deep, rest them on pebbles, or moss, so that only the lower third is under water. Keep in a dark, cool place until roots are at least an inch long. Move to window where they will bloom soon.

**March Entertainment**

We suggest that you get your order in early for entertainment leaflets for St. Patrick's Day. Our new playlet, "Peggy's St. Patrick's Day Party," is full of action and fun. There are 8 characters. Price 5c.

"Our leaflet, 'A Bit O' Irish Fun,' has some dandy plans for your March party. Price 3c.

You'll have fun preparing for either the play or the party, and both are fine entertainment. Send your order to Entertainment Editor, Kansas Farmer, Topeka.

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Wash EVERYTHING with BLUE BARREL SOAP

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Every packet, every pound of Earl May Seeds is laboratory tested to assure you of high germination.
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We test-plant scores of varieties, search out the better, heavier yielding strains. It is these improved strains we packet for you.
- THIRD** ON OUR TABLES—  
Vegetables from our test gardens are distributed to folks at the seed house who try them in their own kitchens—the final test to bring you finer textured, finer flavored varieties.

Save money. Plant a "Grocery Store" garden this year. Have an abundance of fresh vegetables of "triple-tested" quality at a fraction of what they would cost at grocery store prices. It's the sure way to better food at lower cost. For timely gardening news and latest weather forecasts, listen to Edward May every week day at 12:15 noon and 6:45 P. M., over KMA (960 on your dial).

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Here is quick, lasting relief from "sore mouth" caused by loose, wobbly plates. EDISON'S PLASTIC CUSHION RELINER builds up plates where needed forming a smooth, comfortable, durable surface that lasts for months. An amazing plastic discovery . . . no more daily bother with messy powder, wax or rubber. Edison's Reliner applies easily, is non-toxic, non-irritating — perfectly safe.

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Full size tube, enough for several plates, mailed to you on FREE trial basis. Use for 10 days, if thoroughly satisfied send us only \$1.00. If not, simply return tube with unused portion and you owe us nothing.

EDISON CHEMICAL CO., Dept. KF-2, MAIL COUPON 30 W. Washington St., Chicago 2, Ill. TODAY

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**FREE!** With our Reliner we will include FREE EDISONITE BRUSHLESS DENTURE CLEANSER. Enough to make full gallon of this newest magic-like, harmless cleanser. Even if you return Reliner, cleanser is still yours.

I want to get acquainted with you new gardeners, so am making this offer a real, special value.  
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These SUPER GIANT Zinnias are real beauties. BIG! And they grow anywhere—blooming all summer long. 3 packets: 1 yellow, 1 orange, 1 red. All for 3¢ stamp. Will also send along my new seed and nursery catalog, and FREE subscription to my magazine "SEED SENSE". Send stamp TODAY.  
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**CHEST COLDS**

Breaks Up Surface Congestion, Too!

At the first sign of a chest cold—rub Musterole on chest, throat and back. It instantly starts to relieve coughs and tight soreness in chest muscles. Then good old reliable Musterole helps break up painful surface congestion and checks irritation. In 3 strengths. At all drugstores.



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in Kansas Farmer — Classified Department. Only 10c a word, per issue — 12 words minimum.

**Homemaking**

**It's Different Now**

Kids nowadays don't have sore throat. They'd be quite out of step To call it such a common name, They always call it "strep!"

They're rushed off to a doctor And given shots and such, And fed on liquids for awhile, And worried overmuch.

Now grandma's plan was not the same, She'd just grease 'em for a spell With plain old turpentine and lard, . . . But they'd get well!

—By Mary Holman Grimes.

**Soap Versus Synthetics**

If you have soft water, soaps will remove oil, grease and dirt from cottons more efficiently than most synthetic detergents. But most of us have hard water in varying degrees of hardness. Synthetic detergents do a better job of routing dirt in hard water, so says a late report from the textile chemists of the U. S. D. A. Fifty-one different synthetic detergents, granulated and bar soaps were used in the experiment.

**It Prevents Sagging**

If you are unfortunate enough to own a skirt which stretches in the back, remember there is a way out. To reduce the stretch, line part of the back with a soft, firm material, similar in color to the skirt, especially if the skirt material is very loosely woven.

First steam press the skirt to remove any bulge. Select a firm crepe or lining material that has little or no stretch. Make a lining about 18 inches long or slightly longer. Cut it the same size as the upper part of the skirt with straight grain down the center back. Avoid

seams if possible, otherwise make them coincide with the skirt seams.

Sew the lining into the side seams and into the top with the lower edge of the belt. Sew the lining into the side seams exactly with the machine stitching of the skirt itself. Fell the top seam along the belt line by hand.

To finish the lower edge of the lining, stitch twice on the machine without hemming and pink the edge if possible.

**To Cut Cheese**

Cheese sticks to a knife and causes it to crumble. Try a string or a wire. Store it with the cheese.

**Check the Basement**

The major source of home fires is in the basement. Chimneys, flues and smokepipes need cleaning occasionally.

**Prevent That Accident**

Do you immediately wipe up spilled water and fat from kitchen, laundry and bathroom floors? Are there secure handrails for each stairway, inside and outside? Is the hall well lighted?

**Self-Help Overall**

A new 4-page leaflet on the self-help overall for young children has been prepared by clothing specialists of the U. S. Department of Agriculture. This leaflet is illustrated with photographs of children wearing the new garment, as well as drawings showing special features for convenience, comfort and economy. To obtain this leaflet, send 5 cents to the Farm Service Editor, Kansas Farmer, Topeka.

**Patterns for All**



**9327**—Make this graceful beauty in a floral material. Shawl collar is flattering and long panels give slender lines. Sizes 12 to 20 and 30 to 42. Size 16 requires 4 3/4 yards of 35-inch material.

**4815** — A wrap-around timesaver. Easy to sew and to iron. Alphabet transfer included. Sizes 12 to 20. Size 16 requires 3 3/4 yards of 35-inch material.

**4890**—You'll have that well-groomed look all day in this ever-useful frock. Slenderizing details. Sizes 34 to 50. Size

36 requires 3 3/4 yards of 35-inch material.

**4613**—A touch of contrasting material is the news for spring. Big pockets give hip interest and a tiny waist. Sizes 10 to 16. Size 12 requires 2 1/4 yards and 1 yard contrasting material.

**4747**—A tiny tot's attractive frock includes dress with slip and panties for dress-up, plus a sunsuit for play. Sizes 1 to 5. Size 2 suit, 3/4 yard; lace edging 2 yards; dress 1 1/4 yards of 35-inch material. Suitable for summer and winter for the tiny tot.

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

## Skin Disease and Allergy

By CHARLES H. LERRIGO, M. D.

THE medical name for inflammation of the skin is dermatitis, but there are special names for various types. Doctors speak of "contact dermatitis" when the skin becomes inflamed by substances that irritate. The well-known "grocer's itch" which often affects persons who handle sugar is an illustration. Of course, the remedy is to protect the hands from contact. Housewives whose skin is sensitive to alkalis or acids may have to wear rubber gloves at their work. Some people are even sensitive to irritants such as the dyes used in printing the illustrated section of a big newspaper. Many women develop so-called eczema from using hair dyes, and cosmetic articles used for "dress-up" purposes are always open to suspicion. Recently a lacquer used to color nails bothered many users.



Dr. Lerrigo

### Any Age May Have It

Somewhat akin are the food eczemas. In young infants numerous cases are found of severe allergic eczemas of scalp and face. They are relieved by the removal of the disturbing food from the diet of the nursing mother. The egg may be the offender in some cases, and in others it is cow's milk, or some other common food. Nor is this confined to children. Many eczemas of adult persons are troubles of allergy, due to excessive sensitiveness to some article of food. More often they may come because of frequent external contact with an article possessing for the sensitive skin unusual powers of irritation. The eczema is really an internal explosion—a protest against the irritant. Patients so afflicted are in for a lifetime of trouble unless they can discover such irritant and avoid it, or else take desensitizing treatment.

It is only a few years since doctors in general practice began to recognize this peculiar sensitiveness under the

name of Allergy. Any sufferer with chronic eczema owes it to himself to consult a doctor who has given special study to allergy, now a familiar subject. If your family doctor has not gone deeply into it he can refer you to someone reasonably close at hand who has, or he can begin his studies with your case. Tests will have to be made on your skin to find your particular sensitivity. Once this is found you will have a chance to avoid the offending article, or perhaps the doctor may be able to give you treatment that will make you immune.

### Find Out for Sure

For more than 2 years I have had a lump in my left breast about which I have felt no alarm, because of its location and my age, which is 47. It gets no better and I would like your candid, honest opinion.—C. J. C.

I do not think you are safe in ignoring a persistent lump in the breast. Your age is no safeguard whatever, neither is the location of the lump. It may not be a cancer—the fact that it has lasted 2 years without increase in size leads to this hope. But an enlarged gland or a benign tumor in the breast is always a dangerous focus—a place from which a cancer may start. The thing is evidently worrying you, and anyone who tries to remove your worry by telling you to ignore it is a poor adviser. The thing to do is to find out positively about it by getting personal examination.

### Not Liver Spots

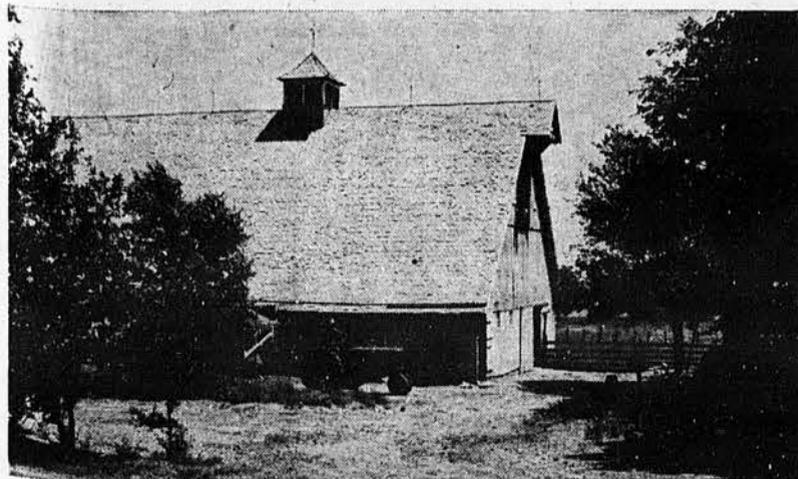
I have had a fair complexion until a few weeks ago. I seem to be getting tan blotches in my face. At first I thought it was a little suntan spot, but I realize it may be a skin disease which needs attention. I have tried to cover the spots with powder, but with that on it looks of if my face was unclean. Some people tell me I have liver trouble.—Mrs. W.

The discolored places, usually dark and inclined to copper color, are called by doctors "Chloasma." They are not due to liver trouble. Quite often they appear while a woman is carrying a child and sometimes they are associated with uterine trouble. Anything that builds up health will cause them to clear.

## It's a Beauty Spot



A fine farm home made more beautiful by the proper setting is the Carl Brose home, Jefferson county. Careful trimming of shrubs adds neatness as well as beauty to the yard.



This scene, taken from the Brose home, looking toward the barn, shows how trees can eliminate that bleak appearance found on some farmsteads.



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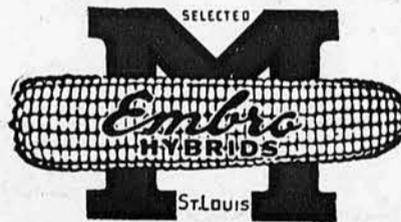
Furthermore, you'll find that the suggestions he gives regarding the feeding of livestock are practical and effective . . . that his advice on caring for your animals is sound. And since he actually lives in the same community in which you live, he takes a neighborly interest in making your livestock raising efforts successful. If you haven't already done so, then drop your nearby Occo SERVICE MAN a post card or call him on the telephone and have him stop by your farm for a talk . . . a talk that will show you how thousands of farmers are using the Occo WAY to get increased returns from raising livestock.

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**EMBRO 36**—High yielding, adapted to fertile soils, matures in approximately 112 days, large cylindrical ear, high shelling percentage, easy to shuck, good standability, plant of medium height, drought and insect resistant. The Hybrid for good farmers.

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## Sealy Anniversary Innerspring Mattress

**SPECIALY PRICED FOR  
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What a buy! To celebrate its 68th anniversary, Sealy is giving you tremendous value. During this event you can buy a fine Sealy Anniversary mattress for only \$39.95—far under what you'd normally pay for such a top quality innerspring mattress.

Just right for winter and summer sleeping! One side is upholstered with hair for cool summer sleeping. Turn it over and the other side is upholstered in wool for cozy winter sleep.

Your choice of special tickings and styles to suit your taste. Come in today.

### \$39.95

Matching Box Spring \$39.95

**YOU GET ALL THIS:**

1. 252 coil innerspring construction
2. Latexed curled hair padded upholstery on one side for cool summer sleeping
3. Fine 100% wool batt upholstery on the other side for extra warmth in winter
4. Pre-built borders heavily padded
5. Miracle Mesh Insulation.
6. Extra-fine quality covers, some used formerly on higher priced mattresses.
7. Bench filled, using fine quality cotton felt.
8. Handles for easy turning.
9. Eight large ventilators.
10. Special sale price only \$39.95
11. Box spring in matching cover at the same extraordinary low price of \$39.95.

**At Leading Furniture Dealers**

## Honor 216 Home Units At Coffeyville Meet

ICE-COVERED roads kept many Southeastern Kansas folks from attending the annual farm, home and industrial conference in Coffeyville, January 26-27. But the program planned by Kansas State College was enjoyed by 271 farm people. Crawford county won the attendance trophy given by the Coffeyville Chamber of Commerce.

Members of Coffeyville's Talk-of-the-Month club swelled the audience for the Montgomery County Rainbow Chorus and Roberto de la Rosa program the evening of January 26 to 500. Only a third of the chorus members were present, but the program was enthusiastically received as was the talk, "The Other American Way of Life," by de la Rosa, cultural agent for the Mexican government.

Two hundred sixteen home demonstration units in the 14-county area of the Coffeyville conference met standard-of-excellence requirements in 1948, and certificates were presented by Georgiana H. Smurthwaite, state home demonstration leader, at the conference. She awarded 177 gold and 39 blue seals.

Home demonstration units receiving the awards are the following, by counties:

**ALLEN**—Groves, South Logan, Cherry Grove, Bayard, Fairlawn, Rock Creek, Neosho Valley, Elm Creek, and Belfrey, gold; Star Valley, Horville, LaHarpe Homemakers, and Geneva, blue.

**BOURBON**—Northeast Scott, Northwest Scott, Berlin, Garland, Cheerio, Fulton, Bronson, West Liberty, Sunshine, Hiattville, and Redfield, gold.

**BUTLER**—Walnut Valley, West Branch, Hickory, Little Walnut, Andover, Mother's Art, Glencoe, Haverhill, Fairview, Bloomington, Cole Creek, Midian, Prairie View, Economy, Rosalia, Cassoday, Benton, DeGraff, and Douglass, gold; Augusta, Vanora, Plum Grove, Fairmount, Towanda, Community No. 40, Murdock Optics, and Fairbairn, blue.

**CHAUTAQUA**—Hewins, Cedar Vale, R-12, Sunflower, Busy Bees, Bethel, Belknap Summitt, Wauneta, and Grant Creek, gold.

**CHEROKEE**—Pollyanna, Pleasant View Hummers, Better Homes, Scattergood, Home Benefit, Happy Housewives, Bethlehem, Home Sweet Home, Loyal Neighbors, Jolly Workers, Progressive Home, Busy Janes, Harmony, Weir Merry Makers, Sheridan, Lowell, and Neutral, gold; and Diamond Jubilee, blue.

**COWLEY**—Tri-township, Creswell Busy Beavers, Proto, East Creswell, Willing Workers, Burden, Pleasant View, Richland, Liberty, Jolly Neighbors, Silver Creek, Walnut Valley Home Builders, Grandview, Rainbow, Co-operettes, Tisdale, Dexter, and East Bolton, gold; Dutch Creek Farmerettes, I. X. L., Grouse Creek, Victory, Udall Home Builders, and Rocket, blue.

**CRAWFORD**—South Broadway, Home Boosters, Friendship, Washington, Monmouth, Croweburg, Mt. Carmel, and Our Modern Farmerettes, gold; Sliferette, Pleasant Prairie Booster, Heart and Hand, Girard Bethany, and Walnut, blue.

**ELK**—Union Center Homemakers, Howard Willing Workers, Loyal Lima, Paw Paw Valley, Pleasant Plain, Longton, and Elk Falls, gold.

**GREENWOOD**—Community Benefit, Bachelor Unit, Spring Creek, Pleasant Point, Landergin, Lamont, Upper Fall River, Community Culture, Maple Hustlers, and Severy Twin Grove, gold; Catalpa, Virgil, Walnut Valley, Quincy, Hamilton, and East Madison, blue.

**LABETTE**—101 Homemaker, Angola Home Improvement, D.D.D., Home Guide, Willing to Learn, Fairview Homemakers, Altamont, Osage Homemakers, Oswego Homemakers, and Labette Harmonizers, gold; M.M.M., Sunshine, We Will, and Happy Homemakers, blue.

**MONTGOMERY**—James Jolly Janes, Loyal Workers, Parker Pricillas, Havana Home Improvement, Lucky 13, Cherry Chums, O'Herin, Hustlers, Home Economics, Westside Workers, Sunrise Pals, Gingham Aprons, Tyro Home Improvement, Caney Chums, Fairbairn Followers, Fairview Merry Maids, Roberts Rustlers, Sycamore Valley, Busy Beavers, Rutland Rustlers, Elk River Homemakers, West Brown Homemaker's, and Sunflower Workers, gold.

**NEOSHO**—Sunflower, Victory, Tioga, St. Paul, Ga-Center, Galesburg, Goldenrod, Leamona, Monday Maids, Neosho Valley, Peace and Progress, Rainbow, Shawvale, and Sunny Homemakers, gold; Erie, and Harmony, blue.

**OSAGE**—Jersey Creek, Riverside, Highland Boosters, Better Homes, Home Makers, and Excelsior, gold; Busy Hour, Busy Bee, and Plymouth, blue.

**WILSON**—Worthwhile, Verdigris Valley, Southwest, Prairie Hustlers, Better Business Builders, Good Neighbor, Hatler Hustlers, Brown Star, Lafontaine Home Builders, Friendly Farm, Bell Homemakers, Busy Bee, Rainbow Valley, Cedar, and Modern Mrs., gold.

### Four More Meets

Four more sectional farm, home and industrial conferences remain on the Kansas State College Extension Service calendar this year. These will be held on the following schedule the week of March 28: Hutchinson, March 28-29; Dodge City, March 29-30; Colby, March 30-31; and Beloit, March 31-April 1.

Programs similar to those held in Topeka and Coffeyville are being planned for the Central and Western Kansas conferences, according to Paul W. Griffith, of the Extension Service. Industrial sections will not be held at Hutchinson but will be included in the other conferences.

## We Can Grow Fruit

By JAMES SENTER BRAZELTON

THERE still is a good opportunity for fruit growing in Kansas. This is the firm conviction of Dr. Wm. F. Pickett, head of the department of horticulture, Kansas State College, who recently attended the 3-day joint meeting of the American Pomological Society and the Washington State Horticultural Association held in Yakima, Wash. In the Northwest, he says, all production costs are high and growers expend every effort to raise top-quality fruit because of the distant markets.

It is Doctor Pickett's opinion that Kansas growers should continue to try to raise fruit of good quality. But he believes they should not attempt to compete with Washington and Oregon growers in the production of extra-fancy fruit. Here in Kansas we should make no attempt to grow the kind of apples that sell for 15 cents apiece, as these apples come from irrigated regions. While in Yakima Doctor Pickett hobnobbed with national horticultural leaders like Stanley Johnston, of "Haven" peach fame.

Hiring a federally-licensed apple-packing inspector for the St. Joseph fruit district, experimental work in

thinning apples with chemicals, and the position of DDT in the codling moth control program, were topics discussed at the annual meeting of the Missouri River Apple Growers, held in St. Joseph recently. George Groh, prominent Wathena orchardist, and long a member of the organization, was elected president for 1949.

### Try 2 Fruit Thinners

Two types of chemical fruit thinners being used now in experimental work were described by W. R. Martin, Jr., Missouri Extension horticulturist. "The 2 types include one which actually burns off blossoms, and a hormone similar to that used as a fruit 'stick-on' spray in late summer and fall," Mr. Martin explained.

"The first type gives some leaf burn, can be applied during a rather restricted period during bloom, and is giving highly varied results. The hormone type shows more promise. It is applied after petals fall, so orchard men know how much fruit set they have before they use the material, and it can be applied over a longer period. However, it shows

(Continued on Page 29)

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A strong, form fitting, washable support. Back lacing adjustable. Snaps up in front. Adjustable leg strap. Soft, flat groin pad. No steel or leather bands. Unexcelled for comfort. Also used as after operation support. For men or women. Mail orders give measure around the lowest part of the abdomen. Specify right or left side or double.

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varied results with different varieties of apples."

Mr. Martin said the fruit thinning experimental work can be summarized by saying that it shows promise, but is still in the experimental stage.

**Makes a Living Fence**

T. J. Talbert, head of the horticultural department, college of agriculture, University of Missouri, Columbia, is authority for the statement that a multiflora rose fence for virtually all purposes is now available. The idea of a living fence is not new, for hedges of Osage Orange have long been familiar landmarks in these parts. Now considered very much a nuisance these are rapidly being bulldozed out along roadsides and the edges of fields. But the multiflora rose is different. It is a shrub and not a tree like Osage Orange.

Unlike the Osage Orange this rose does not offer competition to nearby crops. Neither does its shade prove damaging to cultivated crops as it grows only about 8 feet high. The plants do not become a nuisance by spreading from the planting site by roots, seeds or suckers arising from underground rootstocks. A living rose fence is easy to establish, yet not difficult to eradicate.

**Has Several Uses**

A multiflora rose hedge fence has several commendable features. It is effective against soil erosion, soil blowing and snow drifting. According to Professor Talbert, one of its uses is for fencing terrace outlets. It serves a useful purpose when planted in gullies. When planted on the banks of ponds and ditches it helps prevent eroded soil from filling in these places. It makes a most excellent winter refuge for quail and other forms of wild life. Its reddish-brown seeds are a dependable source of food for many kinds of birds during winter.

This rose of Asiatic origin also may be used in landscaping the farmstead as it is a colorful plant in flowers, foliage and fruit. It has been suggested also that it may serve advantageously as an enclosure for wildlife areas. Professor Talbert is co-author with J. E. Smith, Jr., professor of floriculture at the Missouri College of Agriculture, of a new bulletin, "The Multiflora Rose, as a Living Hedge Fence." It gives detailed planting and cultural directions. Since so many readers were interested in the new frost-fighting machine

which we mentioned in a recent issue of Kansas Farmer, we thought it would be well to describe it in a bit more detail. The Evans Frostguard, as it is called, supplies warmth to vegetables, flowers, berries and fruit trees by "infrared heat rays." It burns kerosene and consumes 8 to 10 gallons of fuel an hour.

The kerosene is supplied to the generator-type burner by means of an electrically-operated pump which can be provided with a motor that operates from a 6-volt storage battery or from 110 volt, 60 cycle alternating current. The combustion chamber is of stainless steel and there is an aluminum alloy canopy-type reflector.

The Frostguard is said to heat on the same principle as the sun. Just as the sun, in daytime, diffuses radiant heat over the growing crops, so the Frostguard, at night, distributes the same form of heat to protect crops against frost damage. The infrared energy does not appreciably heat the air thru which it passes, thereby assuring that most of it will reach the vegetation where it is needed for frost protection.

By the use of this machine, it is said, growers have been able to get crops in as much as 30 days ahead of normal schedule, thereby taking advantage of the high prices paid for earlier crops, and to prolong the bearing season. In some sections, its use has even resulted in the grower being able to raise 2 crops a year instead of one, it is reported.

**They Like Milk**

Increased milk consumption as the result of the war is holding up unusually well now, it is reported by the U. S. Department of Agriculture.

There has been a definite tendency, a survey shows, for increased consumption to be largest in market areas that had the lowest consumption before the war.

**Wool Support**

Wool prices for 1949 will be supported at a national average price to growers of slightly more than 42 cents a pound, grease basis, announces the U. S. Department of Agriculture.

This support will be by purchases, and the program will apply to all types and grades of shorn and pulled wool. The program runs from January 1 thru December 31, 1949.



2-way 12", 14", 16" plow



2-row cotton and corn planter



6' single cut disc harrow



**DUOMATIC HYDRAULIC**  
Holds at proper depth under pressure, if desired. Floats to follow field contour. Operates two rams simultaneously and separately.

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**Speedi-Hitch**... only two pins to attach wide variety of rear mounted implements.

**Extra high clearance**... to 24 inches... tread adjustments available from 36" to 84".

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No farm is too large to put an Earthmaster to profitable use—none too small to mechanize efficiently with Earthmaster. See them at your dealer or write for complete information to Dept. 142

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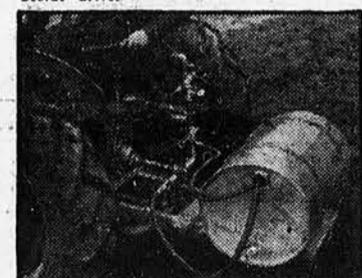
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Superior in Design... Rugged in Construction  
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Jayhawk control panel, with all controls and pressure gauge mounted on fender, beside driver

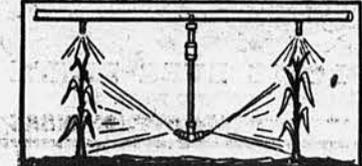


Suggested method of mounting drum on platform attached to drawbar. Controls can be mounted as shown if desired.

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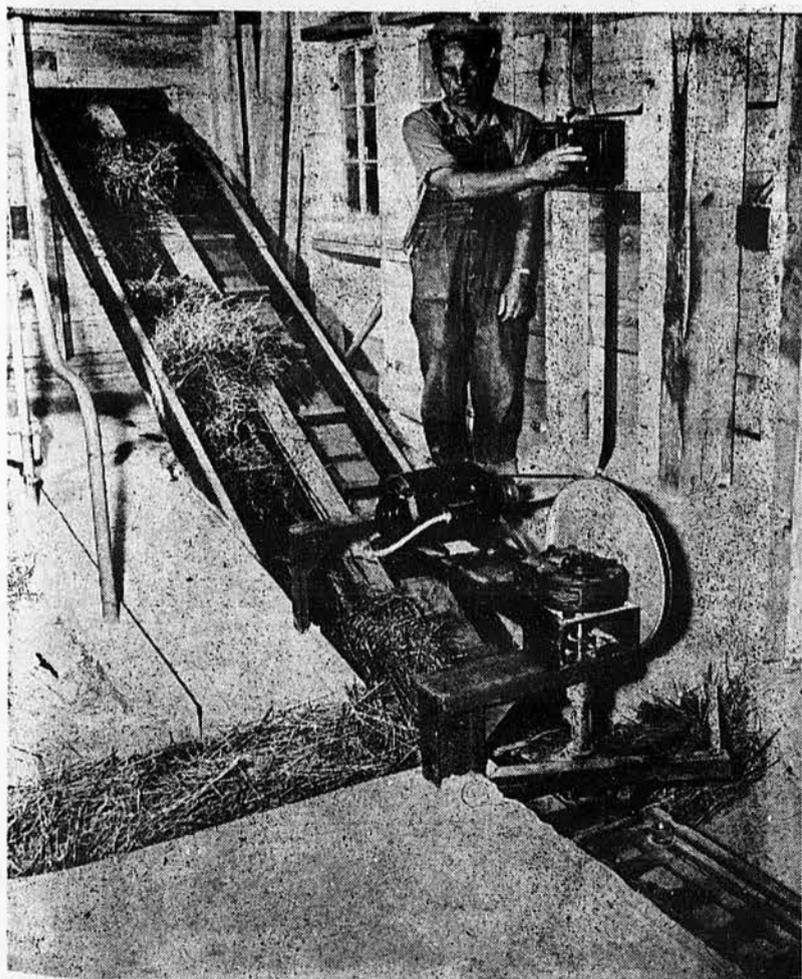
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Left:—Jayhawk "drops" for row crop spraying, with double swivel connector that permits each nozzle to be set independently in an arc of 280 degrees.

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Not the least of these advantages is the complete, clear view you have of your work. Everything is right before your eyes... without bobbing your head from side to side or craning your neck.

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Well balanced gangs come up quickly at the row ends... lower again just as easily. No slowing down at the row ends... no need for a second or third pair of hands. But quick, clean work, hour after hour, all day long.

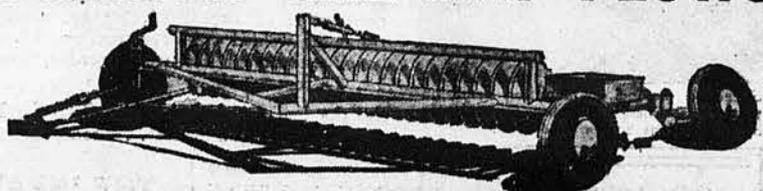
Massey-Harris Cultivators for Massey-Harris Tractors are built in two, four, and six row sizes with a wide variety of shovels and sweeps for every type of crop, or method of cultivation.

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## Now That You Have Electricity

By CHARLES HOWES

I HAD occasion to note the strides of farm electrification in Sedgwick county a few days ago, and dropped in to the Kansas Gas and Electric Company office in Wichita to check up. The fact that nearly every farm in the region seemed to have electricity indicated this company might have some information that would present a good average picture of the Kansas situation.

Lee King, rural representative for the company, made some comparisons. The average residential consumption in Wichita for this company last year was about 1,400 kilowatt-hours; the average farm consumption of electricity ran about 2,000 kwh, or about 60 per cent more than in the city.

So we listed the electrical appliances in one rural home, that of O. J. Neff, near Valley Center. Here is what he and Mrs. Neff have purchased to make their residence comfortable and completely livable... electrically:

- |                                      |                      |
|--------------------------------------|----------------------|
| 1 fuel-oil furnace with blower       | 1 sewing machine     |
| 1 water pump with 1/2-hp. motor      | 1 floor polisher     |
| 1 water sump pump with 1/2 hp. motor | 1 washing machine    |
| 1 40-gallon hot-water heater         | 1 mangle             |
| 1 cooking range                      | 1 fan                |
| 1 refrigerator                       | 3 radios             |
| 1 toaster                            | 3 clocks             |
| 1 Mixmaster                          | 1 blanket            |
| 1 Waring mixer                       | 1 heating pad        |
| 1 coffee maker                       | 1 massage vibrator   |
| 1 hot-plate grill                    | 2 irons              |
| 1 electric sweeper                   | 1 radiant heater     |
|                                      | 1 movie projector    |
|                                      | 1 baby-bottle warmer |

That list sounds like a well-equipped city home. Is it any wonder that a farm would have a greater power consumption when the electric barn equipment, dairy helps, yard lights and nearly 400 other items (or any part) are added to the load.

Let's talk about some more of the gadgets that have been developed for farm use. For one, here's a portable pipe thawer. We have recounted items about heating cables to prevent pipes from freezing. Now, just in case a pipe freezes anyhow, this electronic device thaws the offending unit even if it is imbedded in a floor or wall. It is not necessary to cut holes in the walls or floor or to dig up the ground.

Another gadget is called an electric pail heater. It does double duty, according to the manufacturer, in heating a pailful of water and in warming liquid feeds; it is fully portable so it can be used anywhere there's an electric outlet, and it has a safety mechanism that shuts off the power should the water boil away beyond a certain point. The heater hangs on the wall, the pail hangs on the heater, and the weight of the pail turns on the power. The company claims that 2 gallons of water can be heated to 119 degrees in 12 minutes, to boiling in 38 minutes.

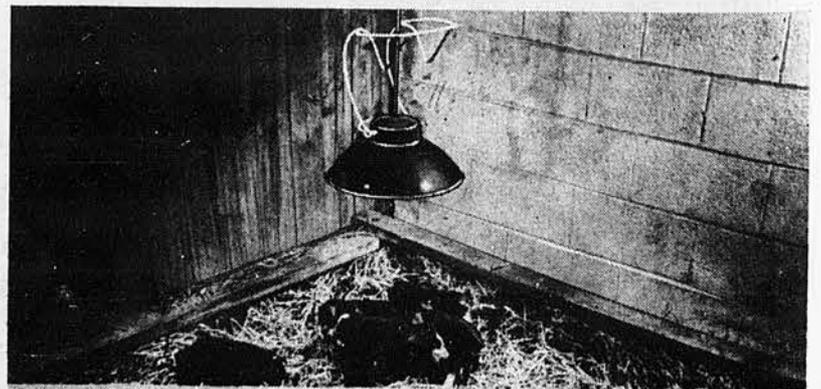
Some caution is advised right at this time in regard to use of a soil-heating cable to hasten the growing season of garden plots. This item is one of the devices that does not have Underwriters' Laboratories approval, not because the cable itself is unsafe, but because the installation may be unsafe.

Our word on this comes from a University of Nebraska electrification specialist, who adds that most of these devices are equipped with not less than 60 feet of cable for a 115-volt circuit. He says that use of lengths of cable shorter than those specified for the circuit output will increase the power consumption, raise the operating temperature perhaps to a dangerous point, and also will shorten the service life of the unit. He advises proper installation, the result of consultation with your power supplier, a competent electrician, or your county agent.

Have you ever been concerned about that drafty corner that is difficult to heat with the central-heating unit? A portable electric heater likely would be a solution to that problem. Not large enough to heat an entire room, these heaters are excellent to supplement the regular heating system in bedrooms, sickrooms, bathrooms or the nursery.

There are 2 types, radiant heaters which heat only those objects within the path of the beam, and convection heaters which heat the surrounding air. Then there is a combination of the 2 with a motor-driven fan to blow the air about. Cost of the heat is small, varying from 3 to 8 cents an hour if your rate is 5 cents a kilowatt-hour. Such a heater is 100 per cent effective in converting electric energy to heat, experts say, but their economy depends on the selection of type and the heating problem.

### Reduces Pig-Chick Losses



Losses of new-born pigs and baby chicks are reduced as much as 35 per cent by the Brood-All Infra-Red heater, says the manufacturer. No special installation is required. The heater can be hung from the ceiling and the height adjusted in a few seconds. It protects young pigs, lambs or chicks from sudden drops in temperature. The infrared rays do not burn and the lamp is harmless, states the manufacturer, the Dry Climate Lamp Corp., of Greensburg, Ind.

# Is Yours a "Spring Fever" Garden?

By WILLIAM G. AMSTEIN  
Kansas State College Extension Horticulturist

THE question of garden-soil fertility deserves more attention than it usually gets. Since our gardening often is a spring-fever affair, little attention previous to planting time is given to proper soil fertilization. Many of our summer garden problems relate to this failure to apply needed fertility.

Questions as varied as (1) "Why do I grow fine tomato vines but few tomatoes?" (2) "What do you do for light-green-leaved and poor-growing spinach?" or (3) "My strawberry patch has extra-heavy foliage, but why are the berries very soft and why do they rot quickly?" all may relate to a fertility problem.

In the first case, there probably is a lack of available phosphate to give the needed balance in plant food to promote early fruit setting.

For the second question, applying more nitrogen either by use of manure or commercial fertilizer containing this element would help.

In the third question, no doubt someone cleaned out the brooder house or chicken house and put an extra-large amount of nitrogen fertilizer on the strawberry area, thus producing a heavy leaf growth. Some phosphate would no doubt help, but time to lose part of the extra nitrogen also is needed.

The common commercial fertilizer elements sold usually are referred to as nitrogen, phosphate and potash. Under average farm garden conditions, most of the nitrogen needs can be supplied by barnyard manure. Even the manure is used, the phosphate requirements of many garden soils will not be supplied in this way. Some other commercial fertilizers may be needed.

In the last 10 years, increased use and knowledge of commercial fertilizers, together with higher prices of farm products, and with declining fertility of our cultivated soils, have brought an increased interest in fertilizer.

A common question on garden fertilizers is, "Do fertilizers harm the soil?" The answer is "no" if proper soil management is followed and correct fertilizers are used in proper amounts. Some are concerned that continued use will create a very acid soil. This change to an acid soil condition is very slow. Use of lime will, when needed, correct this condition at small cost. Lime, likewise, will greatly improve the working condition of many garden soils.

Another question on fertilizer asks whether it is necessary to apply it every year once the practice is started. Certain materials, especially phosphate, can be applied in quantities sufficient to last more than one or 2 seasons. However, as a practice, most people follow the plan of applying some fertilizer each garden year as needed.

The question of types and amounts of commercial fertilizers to use is not answered too easily in a single statement. There are several different forms available, and their use will vary both by analysis and need, as shown by crop response.

Superphosphate, usually about 20 per cent available phosphoric acid, has been sold in greatest amounts in Kansas during the past. Its use at the rate of 200 pounds to the acre each year is suggested for garden crops.

Treble Superphosphate, usually from 42 to 48 per cent available phosphoric acid, is being more commonly used as it becomes available. An application of 100 pounds to the acre a year is desirable.

Bone Meal now is seldom used as a commercial fertilizer.

Some higher-analysis phosphate fertilizers are made, but they are not generally available commercially.

Mixed fertilizers of various grades are still another source of phosphate, as well as possibly nitrogen and potash. Analysis of a mixed fertilizer is expressed by a series of numbers such as 4-12-4 or 6-30-0. Here the first number refers to nitrogen, the second number to phosphate, and the third number to potash. For most garden crops, except in real sandy soils or soils cultivated for many years, we do not believe the last number needs to be other than 0 on the mixed fertilizer tag.

Where mixed fertilizers are used, from 150 pounds of a 6-30-0 or 400 pounds of a 4-12-4 fertilizer or more to the acre can be used to good advantage.

The question of analysis of fertilizer to buy for garden purposes has usually been answered by using what was available. As a rule, when equivalent amounts of fertilizers are used, the results work out the same. However, this does not mean they are all worth the same per ton since their real value depends on their analysis. Where fertilizer can be applied with fair accuracy, it is cheaper to use the higher-analysis fertilizers. Even though the cost per ton is higher, the cost per unit of available plant food is often lower. In recent years, due to the shortage of fertilizers, the practice has developed of using whatever material was available that contained the desired elements needed. In the future, this practice may not be as generally followed as supplies become adjusted to demand and a choice of analyses is available.

Many questions are asked as to how and when to apply commercial fertilizers to garden soils. The most common methods are (1) broadcasting before harrowing or planting, (2) applying over the row area before planting, (3) placing in bands beside the row,

and (4) side-dressing after the crop comes up.

Since phosphate fertilizer is most commonly needed and used, it seems desirable to apply it in the row area. That is, more good will be had from it in this way than from a broadcast application. Where the phosphate is applied fairly near the seed, best results are usually obtained. This does not mean that the fertilizer should come directly in contact with the seed. Germination of most vegetable seeds is injured by direct contact with fertilizer materials. It is better to apply the fertilizer in bands 2 to 4 inches away at the sides of the seed. Fertilizer applied in bands below seed, if possible, gives best results during dry weather.

Manure, if applied in the spring to the garden, should be at lighter rates than in the fall or early winter, when 6 to 10 tons could be used. Only half this amount should be used in the spring. Sheep or poultry manure, especially if it is comparatively free of litter, needs to be used even in lesser amounts. It contains nearly 4 times as much nitrogen as the other manures.

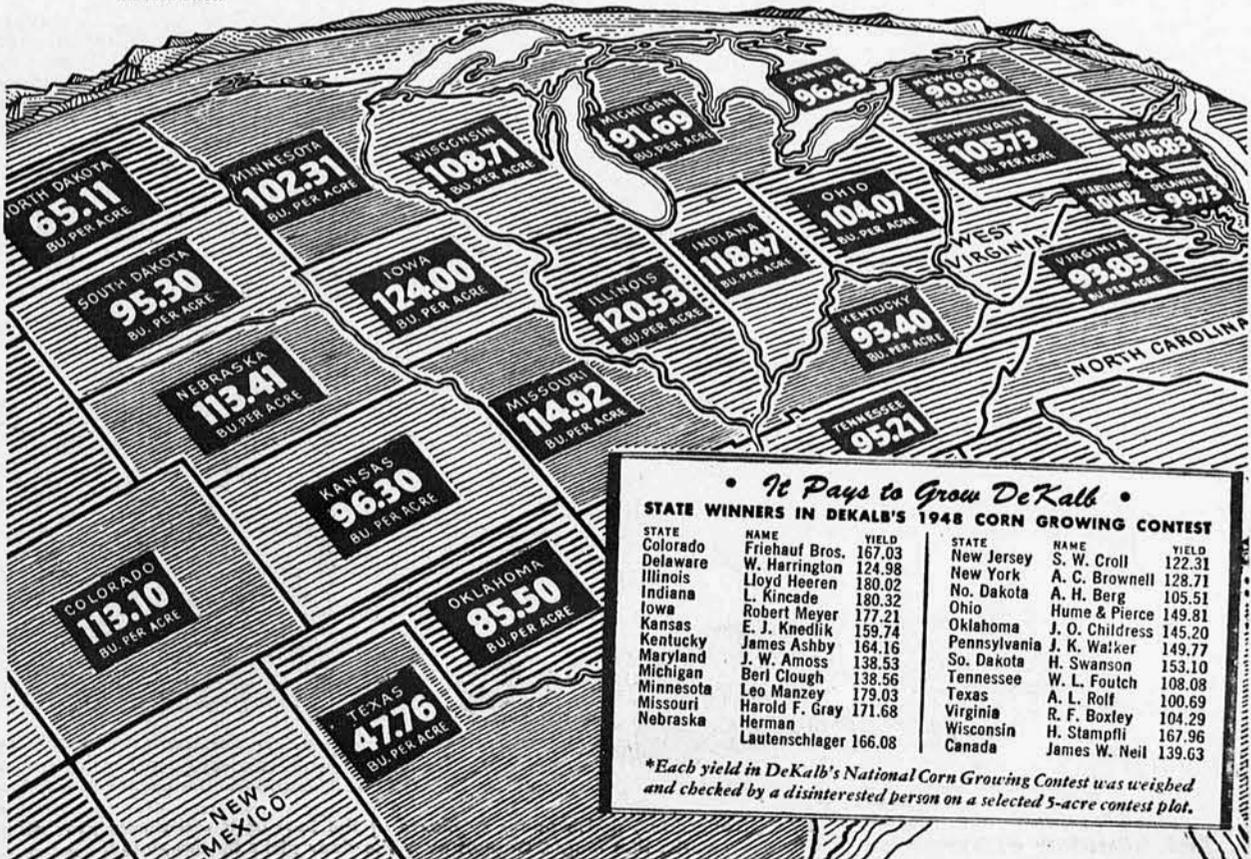


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Figures on the map show average yield of all contestants in each State.



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Delaware	W. Harrington	124.98	New York	A. C. Brownell	128.71
Illinois	Lloyd Heeren	180.02	No. Dakota	A. H. Berg	105.51
Indiana	L. Kincaid	180.32	Ohio	Hume & Pierce	149.81
Iowa	Robert Meyer	177.21	Oklahoma	J. O. Childress	145.20
Kansas	E. J. Knedlik	159.74	Pennsylvania	J. K. Walker	149.77
Kentucky	James Ashby	164.16	So. Dakota	H. Swanson	153.10
Maryland	J. W. Amoss	138.53	Tennessee	W. L. Foutch	108.09
Michigan	Berl Clough	138.56	Texas	A. L. Roff	100.69
Minnesota	Leo Manzey	179.03	Virginia	R. F. Boxley	104.29
Missouri	Harold F. Gray	171.68	Wisconsin	H. Stampfli	167.96
Nebraska	Herman Lautenschlager	166.08	Canada	James W. Neil	139.63

\*Each yield in DeKalb's National Corn Growing Contest was weighed and checked by a disinterested person on a selected 5-acre contest plot.



"Next?"

## Avoid Wet Litter

By NORMAN R. CLIZER



Last winter the owner of this laying house was having trouble with wet litter. As seen in the photograph, 3 of the sections of the open front were tightly covered while the fourth section merely had a gunny-sack curtain. The east end of the house where the burlap was used was the driest part of the laying house. The remainder of the house was extremely wet. Houses with open-front ventilation should not be closed with anything other than burlap or muslin frames or curtains. This permits an exchange of air in the house and reduces the chance of wet litter.

**W**ET litter in the laying house is the cause of many a headache in the poultry business. However, I visit lots of poultrymen who are "sidestepping" this particular problem. By following certain principles I am convinced the litter may be kept sufficiently dry to require cleaning only once a year. I wish to discuss these recommendations briefly.

### Don't Crowd

I am certain that one of the causes of damp litter is crowding too many birds into the laying house. A good, sound rule to follow is that of allowing 3 square feet of floor space for a light-breed hen, and 4 square feet for a heavy-breed hen. In other words, a 20-by 20-foot laying house will accommodate only around 135 Leghorn hens, and 100 heavy-breed. When one increases the number above these figures, more water is consumed by the birds, more moisture is breathed into the air, and the ventilation problem is difficult to solve. One hundred hens will consume around 50 to 55 pounds of water a day. Consequently, there is lots of moisture in the air in the laying house. With open-front houses this moist air moves out thru this opening in the south side of the house.

### Good Ventilation Essential

Many houses are closed too tightly during the winter. It is not necessary to close open-front houses unless we have a severe cold spell, or when snow and rain are being blown into the house. When these conditions exist a muslin or gunny-sack frame or curtain may be used to close the open front. By doing this we still have material which will permit the moist air to leave the house thru the open-mesh material. When open-front houses are closed with closed mesh the moist air has no way of leaving the house. When this happens, it condenses on the floor and on the combs of the chickens. During freezing weather this results in frozen combs and a very uncomfortable litter.

### How Much Is Necessary?

If it is necessary then to have an open front to ventilate your house, how much of it is necessary? I recommend 1 square foot of open space to every 15 square feet of floor space. In other words, a 20- by 20-foot laying house with 400 square feet of floor space would need about 27 square feet of open front. This would be a strip 13 to 14 feet long and 2 feet deep along the south side of your building. If the door is in the center of the south side of the building, this will mean the open front must be deeper than 2 feet. It is well to install a window at each end of the open front in order to keep wind from whipping around the corner of the house and causing drafts. The laying house always should be at least 20 feet deep. When the house is less in depth than 20 feet, the birds are naturally closer to the open front which sometimes causes the house to be uncomfortable.

### See How It Works

In order for the open-front house to work properly, the other 3 sides of the house must be tight. The open front works something like this. As the cold air moves into the house it gradually becomes warmer. It then rises to the

straw loft and starts moving toward the open front. In this way we have a gradual inward movement of cold air and an outward movement of the warm, moist air. By using a cigar in the laying house one is often able to see these currents actually in operation.

## Strong Marketing Program Will Help Kansas

By GENE SPRATT

**A** MARKETING problem is created in any area that produces more of a commodity than it needs. This is the Kansas situation in marketing eggs: They must be moved from this Midwest surplus area to distant markets on the east or west coasts.

We find that egg marketing in Kansas is full of contradictions. Kansas is a large surplus egg producing area. But Kansas egg production is definitely a side line for a vast majority of the farmers. Kansas ranks eleventh in total eggs produced, yet forty-fifth in the price received for eggs.

Estimates are that 62 per cent of all Kansas eggs move to markets on east or west coasts. On such markets they compete with eggs from other surplus areas—areas where egg production is not a side line, and areas possessing strong marketing programs.

At the time of the passage of the Kansas marketing act in 1947, the needs were quite apparent: We needed to obtain better quality eggs, insure this quality to the consumer, and provide premium prices to egg producers for quality eggs. Unfortunately, solutions to these needs are not easy.

Originally nearly all eggs are of high quality. It is only after laying that they begin the rapid deterioration. In addition to reasonable care and rapid

I think quite often we add built-up litter too rapidly. It works best if 2 to 3 inches are put into the laying house when the pullets are housed and after this litter has become broken up more is added to it until you have 6 to 8 inches of well-broken litter by cold weather. This is known as deep litter or built-up litter. It is necessary to remove wet litter which results from rain or snow blowing in the open front of the house or that around water fountains. In other words, just pick this litter up and throw it outside before it has had a chance to spread the dampness to surrounding litter.

It is quite necessary to use a rake or fork and stir the litter frequently so it will break up properly. Litter that tends to cake should be thrown toward the open front so that it will dry.

Another new wrinkle in poultry-house-litter management is the use of lime in the litter. The Western Washington experiment station at Puyallup, Wash., reports good results from experimental work with limed litter. The desirable effect of the lime apparently is due to the lime coating over the litter particles which keep them from sticking together. We are recommending for Midwest conditions a 50-pound bag of hydrated lime to each 100-hen capacity or to each 20- by 20-foot pen. This lime should be scattered over the litter and then raked into it for best results. It should be applied at the first sign of dampness. In certain cases newly added lime may be covered with a light covering of litter and then raked or stirred into the floor litter.

cooling the eggs should be moved quickly to market. With only a few dozen eggs and many miles to travel to such a market, it is obvious individual farmers cannot be expected to make these frequent trips. Rather a system of pickups, such as now used extensively by the dairy industry, seems advisable.

In recent studies it has been found that merchants in 86 per cent of the average country towns purchase eggs on a current receipt basis, either for cash or "in trade." This not only offers no incentive for quality production but, since many merchants are not equipped to handle eggs properly, it further damages the eventual consumer product. Central buying points, representing large numbers of producers, properly equipped to preserve quality seems the most satisfactory answer to this problem.

Any such change in marketing policies would naturally require time for completion. The already well-established educational system on how to protect the quality of eggs from producer to consumer must be maintained and expanded.

Consumers are willing to pay for guaranteed quality. This has been proved in all fields of agricultural products, including eggs. Any marketing



"I usually bring him home something to eat—he thinks you're it!"

program must not only present labeled quality eggs to the consumer, but must insure this quality as to uniformity with regard to labeling and content of the eggs.

Merchandizing of eggs that are of desired quality will have a definite bearing on the volume consumed, therefore, it is a part of the marketing program. Packaging, display and promotion are all featured in the over-all program, altho individual firms approach the specific situations in their own style.

Incentive to the farmer is essential to the marketing program, not only to retain the original quality of the egg until it reaches market, but to build a greater egg volume per farm. The most practical system for passing this consumer premium to the farmer is thru buying and selling eggs on a grade basis.

With this type of marketing program in full operation, Kansas eggs not only will be able to match eggs from other surplus areas on competitive markets of the east and west, but will establish an envious reputation.

### All Must Help

As the egg-marketing program in Kansas develops it is essential to have the co-operation of the entire poultry industry. Farmers must produce, and have opportunity to sell, eggs on a quality basis. Marketing agencies must have, and use, proper facilities for moving these quality eggs from farm to consumer markets. The consumer must be told of the difference and advantages of quality eggs and be given an opportunity to examine and purchase such products.

As for the general market program it encompasses a wide variety of projects. A successful program for eggs, or any agricultural commodity, naturally includes assembling, grading, packaging, storage, transporting and merchandizing the product.

With adequate co-operation, a strong marketing program in Kansas will prove of benefit to every citizen thru higher returns for quality products and more quality for the consumer dollar.

### Fete 4-H Leaders

For the sixth consecutive year, adult 4-H Club leaders in Montgomery county were honored guests at a special leaders' recognition banquet late in January. The banquet was sponsored by the Independence Rotary club.

As a rule, the 4-H leaders are the much-worked but seldom-honored link in the 4-H Club program. But back in 1943 the Independence Rotarians decided to change that. Leaders in this county were among the first to be feted in this manner. Since then it has become an annual event. The one day when the 4-H leaders have their inning.

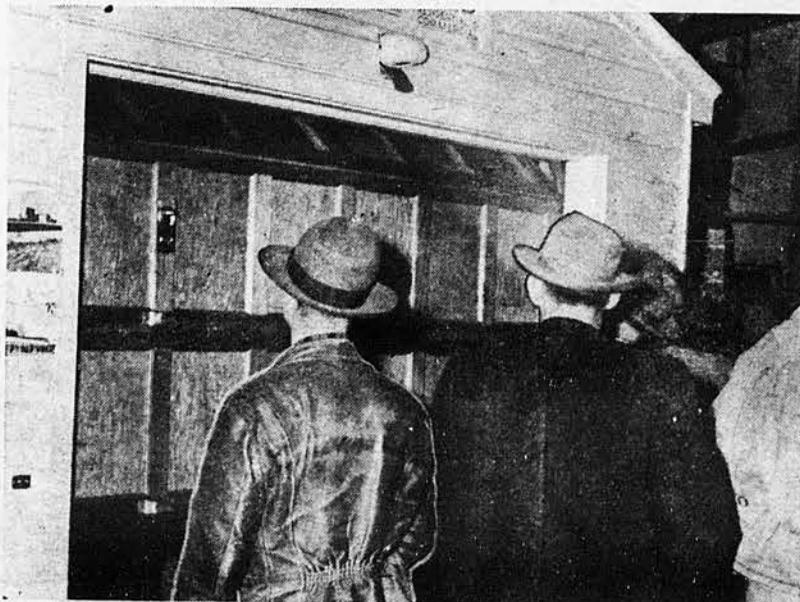
With 27 4-H clubs in the county, there are a total of 89 adult leaders. Counting wives or husbands of these leaders, the guest list this year came up to 130 persons, not including the 90 Rotarians.

Out of the group of guests, 23 were given special recognition by the state 4-H Club office in the form of leadership pins and certificates. Outstanding among the awards was that received by Mrs. Mark Schenck, leader of the Up and Coming club. She received her 11th-year recognition award.

### Solid Workbench

The workbench will be more stable if the front legs are built inward at the top. The lower ends should not project beyond the bench.—Mrs. E. L. R.

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 When disorder of kidney function permits poisonous matter to remain in your blood, it may cause nagging backache, rheumatic pains, leg pains, loss of pep and energy, getting up nights, swelling, puffiness under the eyes, headaches and dizziness. Frequent or scanty passages with smarting and burning sometimes shows there is something wrong with your kidneys or bladder. Don't wait! Ask your druggist for Doan's Pills, a stimulant diuretic, used successfully by millions for over 50 years. Doan's give happy relief and will help the 15 miles of kidney tubes flush out poisonous waste from your blood. Get Doan's Pills.

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# From a Marketing Viewpoint

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

**What kind of prices do you look for on fat cattle this spring?—J. B.**

Some temporary reaction from the recent sharp declines in fat cattle prices is expected, but such strength is not likely to be sustained. The general trend of fat cattle prices still appears to be downward. The demand situation has become much less favorable in the last few months. Furthermore, a very large number of cattle are in feed lots in the Corn Belt and in California. This indicates a liberal supply of fed cattle of the market with a slow, draggy demand this spring.

**What are the possibilities for recovery in corn prices?—F. R.**

A substantial recovery in corn prices appears probable by late winter or spring. A considerable proportion of the corn being marketed is too high in moisture content to qualify for a loan, and much of it probably would not keep with the advent of warm weather. The sale of this corn has been a major price-depressing factor. The eventual disposal of high-moisture corn, usual tendency toward seasonal increase, and effect of the support program are expected to result in higher prices.

**How do poultry ration costs at the present time compare with those of last year and 1947?—H. R.**

The U. S. Department of Agriculture reports that the national average cost of U. S. poultry rations in mid-January, 1949, was 40 per cent lower than a year earlier on the corresponding date. The average cost of 100 pounds of poultry feed on January 15, 1949, was \$3.62 as compared with \$5.08 a year earlier and \$3.46 in January, 1947.

On January 15, 1949, one dozen eggs were equal in value to 13 pounds of poultry feed, the most favorable ratio for the month since 1945. The chicken-feed ratio of 8.5 was the most favorable January ratio in 4 years, and the turkey-feed ratio of 13.6 was the most favorable for the month since 1932. Since feed costs are by far the most important cost of egg production, the egg-feed price ratio reflects how favorable conditions are for feeding the layers.

**Is the Government going to support dairy products prices?—C. D.**

According to the best information available, the U. S. Department of Agriculture has under consideration the program for supporting the price of butterfat at 90 per cent of parity in 1949, if necessary. This is in accordance with the Agricultural Act of 1948. The details on the specific procedures of how butterfat would be supported apparently have not yet been worked out.

Another problem in supporting dairy products is the fact that the parity used for milk prices does not adequately reflect parity for fluid milk produced for grade-A purposes. According to the method of calculating parity for milk, manufacturing milk is averaged in with fluid milk sold in city markets. This naturally gives rise to many problems to fluid milk producers, since the parity for milk tends to oversupport manufacturing milk in relation to milk produced for fluid consumption.

## Open Soil Laboratory

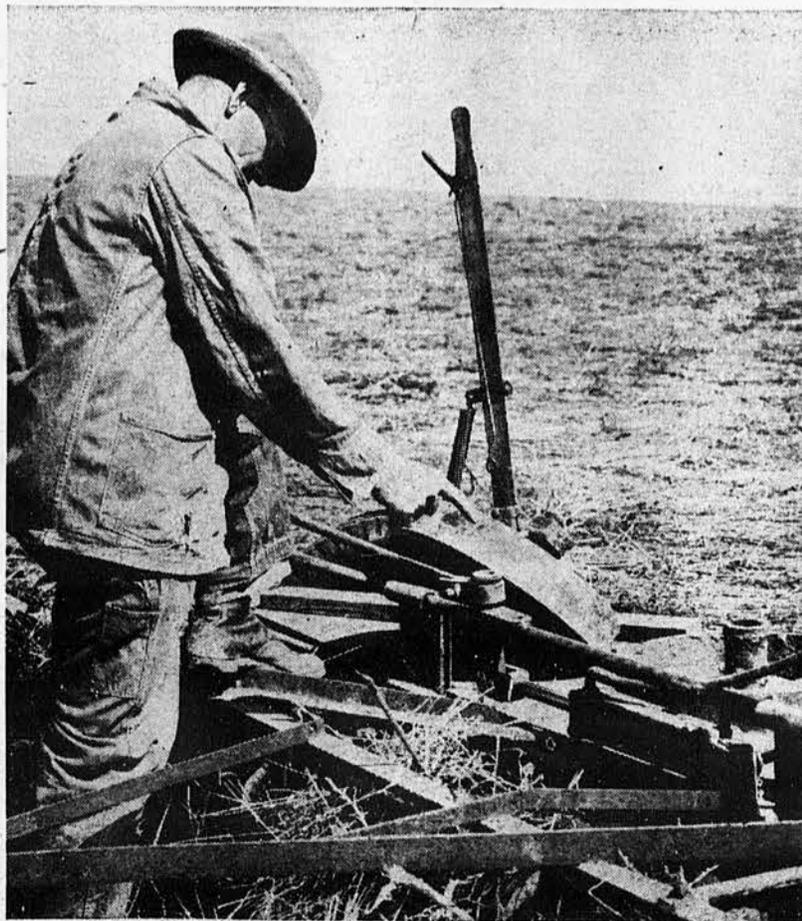
Complete county soil-testing laboratories. That is a new development in the Kansas agricultural scene. The first one of its kind in the state has been set up in Winfield, for Cowley county, by George W. Gerber, county agent.

Cost of this laboratory was about \$400, and each farmer will pay \$1 for each soil sample brought into the county laboratory for a test report. The service is available to all farmers in the county.

This laboratory is modeled after similar laboratories set up in some states to the east of Kansas, particularly in Illinois and Missouri. It will be possible with this equipment to make tests of several different plant foods needed by specific soils for specific crops. With this equipment tests can be made for available nitrogen, phosphorus, potassium, exchangeable calcium, as well as degree of acidity.

Knowing requirements of specific crops, the county agent then can make fertilizer recommendations for individual farms or fields and for the crops planned on those fields.

## A Useful Cylinder



Mason McComb, Stafford county farmer, is shown here pointing to a hydraulic cylinder he installed on his one-way. This removable cylinder can be transferred from one implement to another, to give him the benefit of hydraulic action on several implements.



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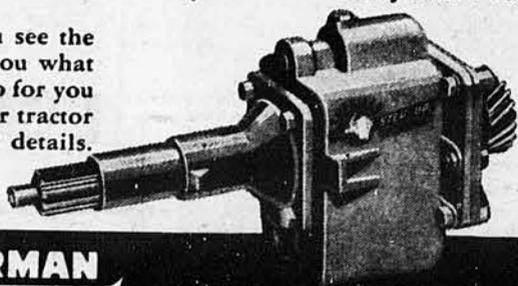
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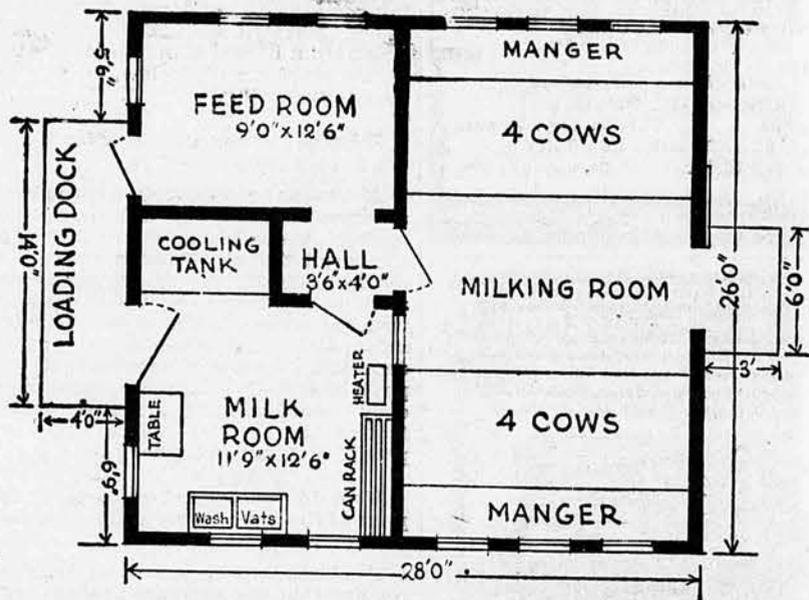
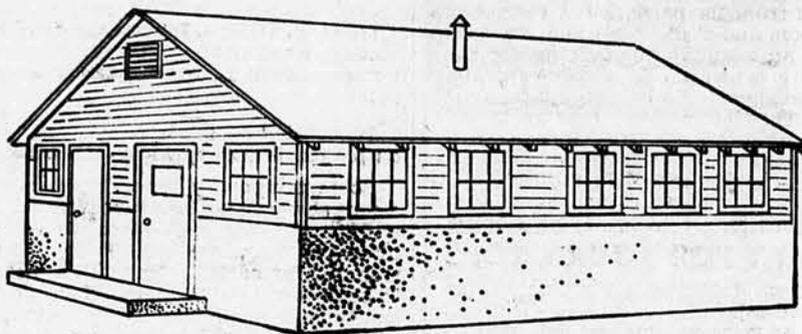


**SHERMAN STEP-UP TRANSMISSION**

SHERMAN PRODUCTS, INC.  
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**Grade-A Milk**

(Continued from Page 4)



Here are exterior and interior drawings of the Kansas-approved "Backout Type" double-row milking parlor designed to offer a maximum of convenience. See end of this story for information on how plans can be obtained.

stanchions. Feed is blown into the feed room thru a metal pipe connected to the grinder, which is located above the loafing area in a nearby barn.

From the loafing barn, cows can be brought into the milking parlor thru an adjoining door. After they are milked, they can be shunted out to the corral thru a door at the opposite end.

This grade-A parlor is large enough to service the 50-cow herd the Foulks have in mind. And its cost seems extremely small for these times. It is a wooden-frame structure. Materials came to \$1,150 and all labor was charged off to farm time for Mr. Foulk and his sons. They are waiting for electricity. Otherwise, the parlor is modern in every respect.

Another Montgomery county producer who is proud of his new milking parlor is E. J. Helton. Like the Foulks, Mr. Helton and his 2 sons, Gene, 17, and Everett, 15, did all the work on this tile structure. They salvaged the tile from an old laying house on the place. In that way they, too, were able to keep total construction costs down to about \$1,200.

The Helton boys are 4-H members. Everett is carrying a dairy project. Gene carried home-beautification and building-planning projects. Planning the milk parlor was one of the big items in his 4-H work last year.

Theirs is a rectangular building with a hipped roof. A dust-tight floor under

the loft makes storage of baled hay or other feeds possible in the second story of this milking parlor. Outside measurements are 20 by 48 feet.

Inside measurements of the milking area are 18 by 24 feet. There is room for 7 stanchions at present. Altho the Heltons were milking only 4 cows thru the winter, a total of 20 were expected to freshen in early spring. This dairy program is on the verge of large expansion. Cows are milked by hand, but the Heltons expect to install a milking machine when they get the size of their milking herd increased.

Sufficient window space was planned in this building to give 4 square feet of glass for each stanchion. Should those requirements become more strict, Mr. Helton pointed out he could easily remove one stanchion. Or, he could add more windows, if necessary.

With an inside measurement of 18 feet across the milking room, there is more than enough space both in front and behind the cows to meet the most rigid demands. In fact, there is enough space in front of the stanchions and feed bunk for a ground-feed storage box. In general, feed should not be stored in the milking room if it is to meet grade-A demands. But there is a dust-tight lid over all 3 sections of the bin and it has met with approval so far.

Should there ever be any objection to that storage bin, Mr. Helton plans to

(Continued on Page 35)



Mr. Helton built this handy cabinet into the wall dividing milk room and bottling room. It provides storage space for filters, chemicals and other small items.

store his ground feed in the 4-foot hallway that separates the milking area from the milk room. A door could be cut thru the wall and the hallway sealed off from the passageway between milk room and stanchion room. There again is an example of planning for the future, when grade-A requirements can be expected to become more strict.

The Heltons have 2 milk rooms. Each room measures 10 by 8 feet. They are separated by a plastered wall with an open archway at one end. In one room they have a mechanical milk cooler, a built-in wall chest for storage of filters, chemicals and other small items. And the room also has storage racks for milk cans and washing equipment used at every milking.

At present, the second room holds only the pump and pressure tank for their water system. When building the parlor they thought someday they may want to sell grade-A raw bottled milk. There is available space in that room to do the bottling.

Step saving certainly is one thing to watch when planning the milking parlor. That is one advantage owners claim for the parlor with the single row of stanchions.

With the feed-room door adjacent to

the single-row feed bunk, many steps can be saved at milking time, these men believe.

Altho a "T"-shaped building like the one on the Foulk farm may be a little more difficult and possibly more expensive to build, it does have an advantage. The milk room is centrally located. Entrance to the milk room is near the center of the single row of cows in the stanchions. This cuts walking distance when you are carrying the milk.

Kansas State College engineers and dairy research men have made a study of the time involved in the milking process and have settled on a milking-parlor design having 2 short rows of stanchions. All operations considered, they believe this type of parlor offers the most compact space and timesaving design.

Drawings of the Kansas approved-type milking parlor are included with this story for comparison. Complete plans for constructing this parlor may be obtained. Write Service Editor, Kansas Farmer, Topeka, for Milking Parlor Backout Type, Plan 2, and enclose 25 cents to cover cost. This plan includes a drawing for a loafing shed in connection with the milking parlor.



Convenience of the feed box in front of the stanchions is demonstrated here by Mr. Helton. Feed arrangements may have to be changed later.

### It's Common Sense To Feed Common Salt

TODAY we hear so much about the importance of feeding livestock the essential minerals and vitamins for health that we can easily forget an old familiar need of livestock—common salt. The 2 chemicals that make up common salt, sodium and chlorine (the chemical name of salt is sodium chloride) are necessary for animal life, as you well know.

It has been shown that feeding salt brings more rapid gains. Tests with pigs showed that pigs fed salt along with corn, supplemented with soybean oil meal, alfalfa leaf meal, bone meal and ground limestone gained nearly twice as rapidly as pigs that got the same ration without salt. That makes salt an important ingredient.

Cattle, sheep and horses need more salt than hogs and poultry, and show more hunger for it. But it is safest to feed hogs salt, too.

If livestock is given free access to salt they will not eat too much, unless they have had a limited supply before.

If suddenly fed too much salt they may get indigestion.

The salt actually aids in carrying on body functions. Sodium and chlorine help in maintaining osmotic pressure in the body cells. This is necessary for the transfer of nutrients in the cells of the body, also for getting rid of wastes in the cells. Blood also contains considerable quantities of both sodium and chlorine. Small wonder then that livestock show hunger for salt—their bodies need it.

#### We Need Salt, Too

Most of us have heard of taking salt tablets in hot weather. Men doing hard work in the summer find marked benefits from eating salt. This replaces salt lost in sweat. There are other body losses of salt, too. So it's common sense to replace this salt.

If the animal's body does not get enough salt it holds on to its supply as long as possible. If this lack is long continued, there is likely to be damage to the body. Finally, there will come a complete breakdown in the health of the animal, altho it may appear healthy for some time.

Will salt kill chickens? In tests in Illinois chickens were unaffected by a ration with 8 per cent salt—and that's really salty! Young turkeys can't take this much salt.

#### Tough Disease

Newcastle disease may cause great reduction in rate of egg production without very severe death loss among adult birds. Affected birds usually show respiratory difficulties, and lack of proper balance. Many thin-shelled eggs are laid on the floor and under the roosts, and production may drop to less than 5 per cent for 1 or 2 weeks. Mortality rates from the disease are severe in young chicks, ranging up to more than 50 per cent loss in chicks exposed soon after hatching.—Clyde D. Mueller, K. S. C.



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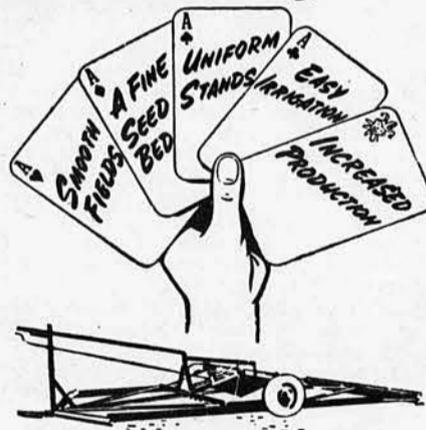
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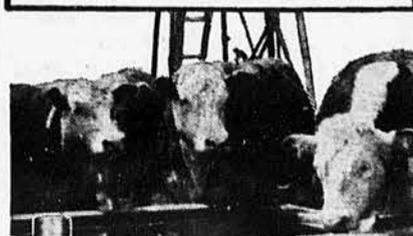
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## Trouble Over Price Supports

(Continued from Page 5)

est and taxes—251 as of January 15, 1948; 248 December 15, 1948; and 248 January 15, 1949; record high, 251 August 15, 1948 (also January, June and July, 1948).

Parity ratios—122 as of January 15, 1948; 108 December 15, 1948, and January 15, 1949; record high, 133 in October, 1946.

Note—See how parity price, parity price index, and parity ratio are figured, last part of this article.

The following table gives the general picture for the year, January 15, 1948, to January 15, 1949, for some of the principal farm commodities:

able number of fruits and vegetables, including potatoes, are usually averages of season average prices for marketing seasons falling within the 120 months, August, 1919-July, 1929, or the 60 months, August, 1934-July, 1939.

2. An index of prices paid is calculated. To begin with, the prices of 86 items used in family living and 90 items used in farm production are collected. These items include clothing; household supplies; food; furniture and furnishings; building materials; automobiles, trucks and tractors; feed; farm machinery; fertilizer; equipment and supplies, including gas, oil and tires; and seed. The estimated quantity of

(In following table, base period on which parity price is figured is 1909-14 unless otherwise noted. See explanation parity price, parity index and parity ration in this article. Prices are average prices at farm level.)

Commodity	Base Price	Parity Price 1-15-49	Average Price 1-15-48	Average Price 1-15-49
Wheat, bu. ....	\$.884	\$2.19	\$2.81	\$2.02
Corn, bu. ....	.642	1.59	2.46	1.26
Oats, bu. ....	.399	.99	1.27	.762
Rice, bu. ....	.813	2.02	3.00	2.47
Grain sorghums, cwt. ....	1.21	3.00	3.77	2.22
Flaxseed, bu. ....	1.69	4.19	6.71	5.75
Dry field peas (10-14) cwt. ....	2.09	5.18	6.35	4.85
Beans, dry edible, cwt. ....	3.37	8.36	11.90	7.84
Soybeans, bu. ....	.96	2.38	4.11	2.27
Cotton, lb. ....	.124	.3075	.3314	.2927
Cottonseed, ton ....	22.55	55.90	95.10	65.70
Potatoes (19-28) bu. ....	1.12	1.81	1.86	1.66
Apples, bu. ....	.96	2.38	2.01	2.36
Grapefruit (19-28) box ....	1.25	2.02	.32	.51
Lemons (19-28) box ....	2.02	3.27	1.43	4.59
Oranges (19-28) box ....	2.29	3.71	.72	1.23
Hogs, cwt. ....	7.27	18.00	26.70	20.10
Beef cattle, cwt. ....	5.42	13.40	21.50	20.00
Veal calves, cwt. ....	6.75	16.70	24.40	25.10
Sheep, cwt. ....	4.53	11.20	9.32	9.17
Lambs, cwt. ....	5.88	14.60	22.20	21.90
Butterfat, lb. ....	.263	.652	.844	.632
Milk, whs., cwt. ....	1.60	3.97	4.81	4.35
Chickens, lb. ....	.114	.283	.263	.307
Turkeys, lb. ....	.144	.357	.389	.493
Eggs, doz. ....	.215	.533	.459	.453
Wool, lb. ....	.183	.454	.407	.483

The original definition of the parity principle (AAA 1933) declared it the policy of Congress to "re-establish prices to farmers at a level that will give agricultural commodities the purchasing power with respect to articles farmers buy equivalent to the purchasing power of agricultural commodities in the base period." This formula has not been substantially changed. (The Hope-Aiken act, effective next year [1950], if not changed by this Congress, will make agricultural income, rather than relative purchasing power of commodity prices, the basic objective. But that is not in this picture.)

For most commodities the base period is the 5 years, 1909-1914 inclusive. August, 1919, thru July, 1928, is base period for some commodities where 1909-14 has been found clearly out of line, including potatoes, and all tobaccos except three.

A recent explanation from the BAE on how parity price, index and ratio are determined follows:

1. A base price is determined by averaging the prices received by farmers for the 60 months beginning August, 1909, and ending July, 1914. The average price of wheat averaged 88.4 cents a bushel, corn 64.2 cents. Base prices for tobacco and for a consider-

each commodity bought by farmers is used to combine these prices into an index. Allowances for taxes and mortgage interest payable per acre on farm real estate also are included. This procedure gives an over-all index of prices paid, interest and taxes.

If this index, for example, is 250 (as in September, 1948) it means that farm commodity prices need to be 250 per cent of the prices prevailing in the base period in order that they might have the same purchasing power per unit as in the base period.

3. To get parity price on a commodity the base prices are adjusted by the index of prices paid, interest and taxes, or by the index of prices paid in case the base period is other than 1909-14. Using September, 1948, as the example for this procedure, the parity price for cotton was 2½ times (250 per cent) 12.4 cents or 31 cents a pound. The parity price of corn was 2½ times 64.2 cents or 160 cents a bushel. The parity price of wheat was 2.5 times 88.4 cents or \$2.21 a bushel. The parity price of potatoes, however, (which is calculated from the base period August, 1919-July, 1929, equals 100) was 166 times \$1.12 a bushel, or \$1.86, since the index of prices paid 166 as of September 15, 1948.

The parity ratio is the result of dividing prices farmers received (average over-all) by the index of prices farmers paid.

For instance, in the summary picture from BAE used in this article, the index of prices received by farmers (average over-all) as of January 15, 1948, was 307 per cent of the prices received for the base period; a little more than 3 times as much per unit. The index of prices paid as of January 15, 1948, was 248; a trifle less than 2½ times as much as base period. Divide 307 by 251 and you get 122. That means that the same number of units of farm commodities sold at January 15, 1948, prices would buy 22 per cent more than in the base period. Applying the January 15, 1949, figures, and you get a parity ratio of 108—one-twelfth more purchasing power than in base period, where a year earlier it was better than one fifth more.



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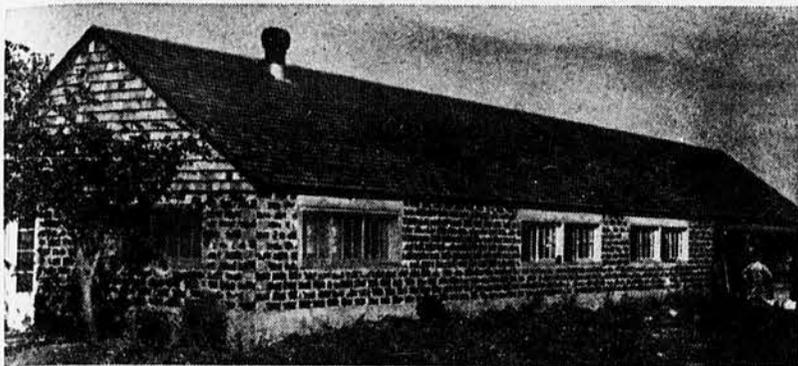
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## It's a Handy Building



This new 20-foot by 80-foot dairy building on the farm of Harold Brown and D. A. Edmiston, Butler county, has a milk room, milking parlor and holding shed.

**H**AROLD BROWN and D. A. Edmiston, Butler county dairymen, have recently completed a new dairy building that combines a milk room, milking parlor and holding shed in one unit 20 feet by 80 feet. It is made of tile blocks.

The building is divided into a milk room 12 feet wide, a feed room 6 feet wide, an 8-stall milking parlor and a 28-foot holding shed. Thirty head of cows are being milked at present.

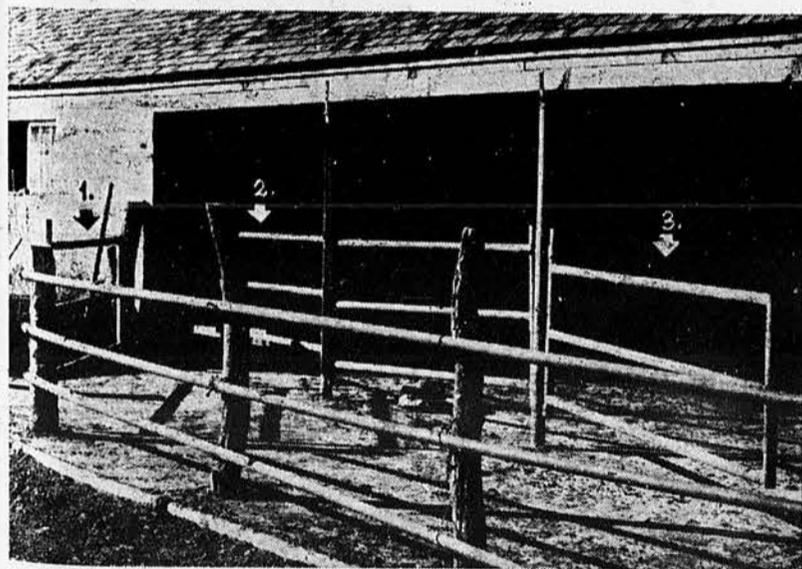
These 2 men have worked out several ideas on gates that are handy and make handling cattle an easier job.

Inside the milking parlor, they have a sliding gate at one end to keep the cattle from getting beyond the stall area. This gate is made from 2 sizes of pipe, with one section sliding in and out of larger pipes, much like a slide trombone. It is easy to construct and is neat in appearance.

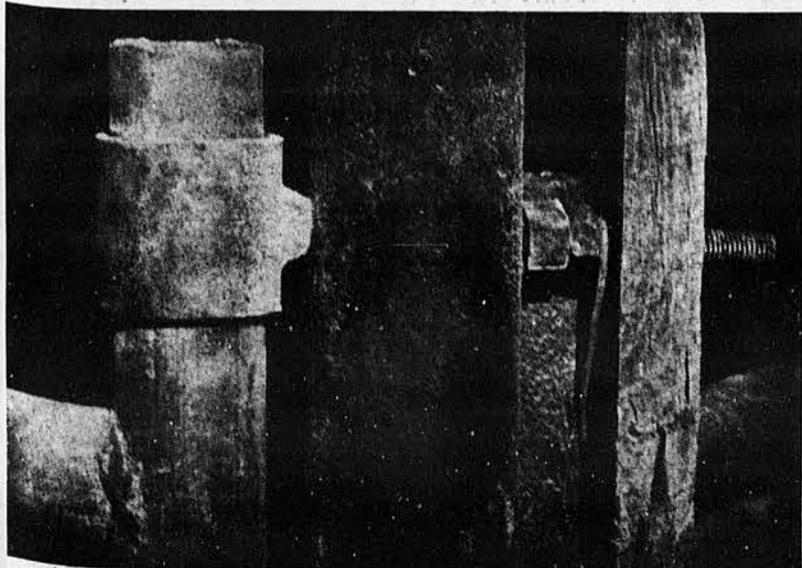
A series of 3 gates in the holding shed allows running the cattle in a number of different directions. Two of these gates are so arranged they can be swung around to form the 2 ends of a holding pen. This pen can be used for spraying the cattle, for treatment by a veterinarian, or for any other purpose needed.



Harold Brown shows how his sliding gate works inside the milking parlor. The sliding section is made of smaller pipe than the rigid section and easily slides in and out much like a slide trombone works.



Here is a clever gate arrangement used to handle cattle. Gate 1 controls cattle in and out of the lot; gate 2 controls cattle in and out of the milking parlor. Gates 1 and 3 can be swung around to form 2 ends of a holding pen.



A close-up showing how gates on the farm are hung by means of a metal collar bolted thru uprights. These collars allow the gates to swing easily in 2 directions from the upright.

### Fun at Home

During the cold, long winter evenings it is well to have at hand a store of games for the family to play. Our leaflet, "Homemade Fun," lists 25 games and suggestions, any one of which may be easily followed and used by the family circle. For a copy of the leaflet, please address Entertainment Editor, Kansas Farmer, Topeka, and enclose 3c for mailing charges. We will give prompt service.

### Better Beef

Continuous crossing of 3 beef breeds seems to indicate this is a practical method of getting hybrid vigor in beef cattle bred for market, says the U. S. Department of Agriculture.

At the U. S. Range Experiment Station, cattle produced by the first cross of Shorthorn and Hereford were superior in growth ability. The second generation, which introduced an Angus sire, did not grow as rapidly as the first cross, but the carcasses showed exceptional quality. Completing the 3-way cross with a Hereford sire, produced beef animals that were the best, measured either by carcass quality or by growth.

### Study Our Farms

Some 100 persons a month have been coming to America from foreign countries since World War II, to study American farming practices. They stay an average of 2 months.

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# No Waste Space Here

New Farmstead Being Planned by Millers



This new, modern farm home of the Weldon Miller family, Norton county, is an eye-catcher. Note first steps in landscaping the grounds. Also note water supply at the right.

MAKING a small farm home do the job of a big one has been accomplished by Mr. and Mrs. Weldon Miller, of Norton county.

The Millers built their modern 5-room farm home recently and gave a lot of attention to utilizing every bit of space above and below ground.

A full basement was included in the plans and it was this basement that gave the Millers a big house. It is finished practically as well as the upstairs and contains a combination living and recreation room, one large bedroom, a utility room, and a half bath. Built-in cabinets along the utility room walls add a lot of storage space.

To insure plenty of light and prevent dampness in the basement, extra large casement windows were installed. An outside entrance allows reaching the basement without going thru the house. The combination living-recreation room has a fireplace and is equipped with a full-sized pool table for members of the family and their friends. The Millers also enjoy home movies in the basement. A butane gas

furnace is used for central heating. Cooking also is done with gas.

On the ground floor the house has a large living room, dining room and kitchen, and 2 bedrooms and bath off a central hall. The living room, hall and both bedrooms have wall-to-wall carpeting.

The front yard has been seeded to a good lawn grass mixture and is outlined with spirea and privet hedge. More landscaping will be done with bushes and shrubs. A windbreak has been set out north of the farmstead.

Following the latest style, the house sits at right angles to the highway,

## What's on Your Mind?

If you need a good farm bulletin on any subject, name the subject and let us get the bulletin for you. Kansas Farmer likes to do things for our folks. Please address your post card to Bulletin Service, Kansas Farmer, Topeka.



The Miller basement contains a combination recreation room and parlor, bedroom, shower and stool, utility room, and central heating plant. Here Mr. Miller enjoys a game of pool with County Agent Beverly Stagg.



After the game—Mr. Miller and Mr. Stagg relax in the basement parlor. The fireplace is a family attraction during winter months.

which allows a driveway past the front door.

This farm home, and a new machine shed and shop constructed about the same time, are part of an entire new farmstead being planned by the Millers. Future plans include a new general-purpose barn, a central farrowing house for hogs, a granary, and a laying house. These buildings will be laid out along the north and east sides of the farmstead to form an L.

Mr. Miller operates 1,600 acres, with 1,200 acres tillable. He summer-fallows 500 acres of wheat ground and annually handles 100 head of purebred Duroc hogs. Combine milo raised on the farm is the main feed source for the hogs. He keeps about 10 head of Holsteins with 5 or 6 milking. Temporarily he is out of the cattle business but ordinarily buys and feeds cattle.

## Strong Food Demand

Food consumption per capita in the U. S. for 1949 probably will not change much from the 1948 level, which was 12 per cent above prewar, states the U. S. Department of Agriculture.

No great weakening in either domestic or foreign demand for food appears likely this year, so retail food prices are expected to continue high thru most of 1949.

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# Classified Advertising Department

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Make More Profit under average farm conditions. Raise Milking Shorthorns. For average farmer Milking Shorthorns are unbeatable. Produce 4% milk. Have greater carcass value than other breeds. Second to none in producing milk and meat from home-grown roughage and grain from your farm! Free facts. Or subscribe to Milking Shorthorn Journal. Six months, \$1.00; one year, \$2.00; three years, \$5.00. American Milking Shorthorn Society, 4122 So. Union Ave., Dept. KF-5, Chicago 9, Ill.

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STRAIN No. 1      STRAIN No. 2      CHICK

CROSS STRAIN

"HYBRID VIGOR" obtained in these chicks by crossing two entirely unrelated strains of White Leghorns. Both strains are U. S. ROP with very high egg records.

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● for High Livability ● for High Production

● for Feed Efficiency ● for Large White Eggs

If you raise White Leghorns, get Coombs STRAIN-CROSSED CHICKS. Share in benefits of hybrid vigor. We believe you'll be well pleased. So will your pocketbook. These chicks are rugged. Pullets lay more eggs under farm conditions than either parent strain. Flock records run as high as 235.6 eggs per bird. Here are averages made by Kansas farm flocks:

Production per bird . 219.7 eggs  
Avg. egg weight . . . 25.5 oz. per doz.  
Feed per doz. eggs . . 5.4 lbs.

#### Coombs AUSTRA-WHITE Chicks With High U. S. ROP Breeding

If you raise Austra-White Chicks, get good ones with real egg breeding. Coombs Austra-White Chicks from cross of high egg production ROP strains, Australorps and Leghorns. High speed fall-winter layers. Farm flocks on test averaged 207.5 eggs this past year.

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White Rock Chicks  
Developed by Dr. D. C. Warren. Ideal meat-egg strain. 100% fast feathering. Fast growing. Birds bring top market prices at all ages. Pullets make sturdy farm layers.

**FREE DISCOUNT**  
Place order now. Reserve chicks for date you want. Write for prices.  
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25 extra chicks 1¢ with each 100 of our Group 3 chicks. 10 extra chicks 1¢ with Group 2 chicks. Guaranteed big strong chicks from supervised blood-tested flocks. Winning monthly in egg-laying contests. Over 100,000 satisfied customers. We pay postage if cash in full is sent with order. You pay postage on C. O. D. orders. Prices subject to change without notice. 95% sex accuracy guaranteed.

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White, Buff Rocks; Wh. Wyandottes, S. C. Reds	\$7.90	\$7.90	\$9.90
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No Sex Guarantee, 100		for Broilers, 100	
Group 2—2¢ higher—10 extra chicks 1¢ with each 100			
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**SCOTT HAYES CHICKS**  
Dept. 139 Omaha Nebraska

## BEST CHICKS Bring Best Profits

U. S. Approved Pullorum Controlled

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	4A Gr.	14.50	21.90	5.90
Austra-Wh.	3A Gr.	12.90	18.90	8.90
	4A Gr.	14.90	20.90	9.90
White & Brd. Rocks, Reds, New Hamp.	3A Gr.	12.90	16.90	12.90
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Certified varieties U. S. 13 & K1784 Uncertified varieties C92 & UTZ 100

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CARL BILLMAN, Holton, Kan. Atlas Sorgo 94% germination, 7c per lb. Neosho Oats 96% germination, \$2.00 per bushel. Nebraska Certified Clinton Oats, \$2.00. Walter Peirce, Rt. 2, Hutchinson, Kan.

Certified Clinton Oats. Purity 99.50%. Germination 98%. \$1.80 bushel bagged, \$1.70 loose, at farm located 1 1/2 miles east of Galesburg, Kan. W. E. Allen, Rt. 1, Phone 11.

Kansas Blue Tag Certified Clinton Combine Oats. Germination 99%. Purity 99.69%. Re-cleaned and treated, \$1.75 bushel. Dean Libby, Smith Center, Kan.

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Certified Nemaha Oats \$2.75 bushel. Certified Neosho \$1.50. Each in 3-bushel bags. Certified Axtell \$5.00 cwt. Victor Doubrava, Wilson, Kan.

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Certified Strawberry Plants—Blakemore, Klondike, Fairmore, Klondyke, Missionary, Aroma—Postpaid 100—\$1.00; 250—\$2.25; 500—\$4.00; 1,000—\$7.00. Express—1,000 \$6.00; 5,000 \$7.50; 10,000 \$50.00. Tennessee Beauty, Chipper, Supreme, Premier, New Robinson, Red Star—Postpaid—100, \$1.25; 250, \$3.00; 1,000, \$10.00. Express—1,000, \$9.00; 5,000, \$40.00. Sinclair Nurseries, Dayton, Tenn.

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—White Bermuda, Yellow Bermuda, Spanish, 500—\$1.00; 1,000—\$1.75; 2,000—\$3.00. All postpaid. Satisfaction guaranteed. Culver Plant Farms, Mt. Pleasant, Texas.

Look: Look: Look: 2 peach, 2 plum, 1 Montmorency cherry, 1 apricot, 5 thornless Boysenberries, 5 Blackberries, 10 Dewberries, 10 Latham Raspberries, 2 Gooseberries, 50 Blakemore and 25 Gem everbearing Strawberries, 10 Rhubarb, 25 Asparagus, 150 trees and plants, all for \$3.95. Satisfaction guaranteed. Basham Nursery, Mountainburg, Ark.

Open Field Grown Plants: Cabbage, Onions, Potatoes, Peppers, Tomatoes, Beets, Lettuce, Cauliflower, Broccoli, Asparagus, Flowers, Tobacco, Brussels sprouts, Eggplant. All leading varieties. State certified. Guaranteed to please. Write for catalogue and free plant offer. North Texas Plant Farm, Franklin, Texas.

Strawberry Plants Postpaid. Premier, Aroma, Blakemore, Klondyke, Tenn. Beauty, Dunlaps, Missionary, 100—\$1.25; 500—\$4.00; 1,000—\$7.00. Everbearing, Progressive and Gems, 100—\$2.50; 500—\$8.00; 1,000—\$15.00. Warren H. Lackey, Harrison, Tenn.

Certified Strawberry Plants—Aroma, Blakemore, Klondyke, Dunlaps, Gem Supreme, \$5.00 thousand; Gem Beauty, Klondike, \$7.50; Gem Everbearing and Minn., 110c, \$12.00; Progressive, \$8.00, Tom Ramsey, Harrison, Tenn.

Grapevines—Concord or Fredonia, heavy 2-year 10—\$2.00; 3-year bearing size, 10—\$3.00, postpaid. 20 leading varieties, list free. Strawberry plants, Boysenberries, Blackberries, Raspberries, Asparagus, Rhubarb, etc. Ideal Fruit Farm, Stilwell, Okla.

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New Jayhawk, America's best hydraulic loader buy! Simplified design, 1.0 framework above tractor. Attaches, detaches 3 minutes. Tested to 2,500 pounds. Has patented automatic load leveler, hay crane, bulldozer, sweeper, snow scoop attachments. Fits 53 row crop and wide tread tractors. Costs less to buy, operate, maintain. Free catalog gives full details. Write Wyatt Mfg. Co., Box L-58, Salina, Kan.

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Complete stock of parts for Delco-Montgomery Ward, Fairbanks-Morse, Onan, Sears. GENERAL PRODUCTS 159 No. Waco Wichita, Kan.

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Welding Generators, 150 ampere \$47.50, 1/2 horse, 1750 R-P motors \$19.75, 3/4 horse, 3450 RPM \$22.50. Compressors \$17.50. Butler, 1885 Milwaukee, Chicago.

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Sizes 38 to 52—Better dresses, Suits, Blouses, Lingerie economy-priced, in slenderizing new Spring styles! Write for free catalog. Royalty Fashions, Inc., Dept. KF3, 118 East 28th St., New York 16, N. Y.

White Rayon curtain material, 42" width, 59c per yard, plus 50c per order postage and handling. Check, money order or C. O. D. Satisfaction guaranteed. H. C. Paulk, 813-B No. Kansas, Topeka, Kan.

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MISCELLANEOUS

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.

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

Quality Baled Alfalfa for sale. Hayden Bros., Clements, Kan.

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160 Acres—1 mile town and high school, on main highway, level upland, 100 plowed, 60 good pasture, 50 in wheat goes, good buildings, electricity, \$14,000. T. B. Godsey, Emporia, Kan.

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Wheat Crop Included... money-making 160-acre Kansas farm within hour state capital city. 25 acres alfalfa. 2-acre orchard, dandy modern home, owner includes 100 acres wheat for early buyer, all for \$15,450! Gravel RFD road, 5 1/2 miles town; 150 tillable, supports good alfalfa, corn, wheat, and grain crops; spring in pasture, 35 acres hog tight, 85 young fruit trees, small vineyard; \$4,500 income reported last year from hogs and cattle alone; 8-room house, modern bath, electricity, basement, screened porch, shaded lawn, good 30x30 barn, good poultry buildings, granary, 2 hog houses; owner ready for larger place, top quality buy at \$15,450 terms. See full details in big free Spring catalog many states just off press! United Farm Agency, 428-KF BMA Bldg., Kansas City 8, Mo.

Strout's Farm Catalog, Fall-Winter issue mailed free! Over 2,800 genuine bargains Coast to Coast. Tell us what you want. Where? Price? Terms? Save thru Strout Realty, 20 West 9th St., Kansas City 6, Mo.

Rock Phosphate Best in Rotation

WHAT about rock phosphate? Should I use it? How should I use it? Several Kansas farmers asked those questions last year.

We relayed the questions to Kansas State College agronomists. In general the answer is this: There is a place for the use of rock phosphate in Kansas. Particularly in the eastern one third of the state. But there are a lot of "ifs" in its use.

In one way rock phosphate is new to Kansas. It is new because only a few Kansas farmers have used it in comparison with the number using superphosphate. But actually rock phosphate is quite old. It has been tested in the experimental fields in the state for 20 years or more.

An old experiment station bulletin from Kansas State College, published in 1932, gives results of rock phosphate tests on various crops from 1925 to 1930. And more recent tests show results similar to those earlier experiments.

Use in Rotation

In general, rock phosphate will give best results if used as a rotation fertilizer. Not as a crop fertilizer. Legumes have the greatest ability to utilize the phosphorus in rock phosphate. That is where rock phosphate comes in as a soil builder—as a rotation fertilizer. Sweet clover, alfalfa or red clover will benefit from rock phosphate. Then when the legume is turned under, succeeding grain crops will benefit from the increased supply of organic matter and nitrogen. Included in that organic matter will be available plant foods, like phosphate, which are readily usable by the succeeding grain crops.

Rock phosphate should be applied at the rate of 500 to 1,000 pounds an acre. It contains 30 per cent or slightly more phosphorus, but not all is immediately available. Its effect can be expected to last over a period of several years, 3 to 6 years, possibly more. When 1,000 pounds of rock phosphate are applied to soil ahead of a legume, it can be expected to release about 30 pounds of available phosphorus in a year for the legume.

That provides the basis for the long-time fertilizer program of soil building which is recommended. Apply lime and rock phosphate as an investment for improving the land. Put on 1,000 pounds of rock phosphate ahead of a legume at a cost of about \$10 an acre. Then when it is time for legume again in rotation, apply more rock phosphate.

In the meantime, for immediate crop returns, apply fertilizers carrying available nitrogen, phosphorus and potassium according to crop and soil needs. Perhaps in time it then would be possible to build up a reserve of phosphorus in the soil.

In the long-time fertilizer program, there appears to be a slight economic advantage in favor of rock phosphate. At a cost of \$20 a ton, the annual cost for 30 pounds of available phosphorus an acre would be \$2 over a 5-year period. And with 1,000-pound applications every 5 years, a reserve build-up of phosphorus could reasonably be expected. But remember, it gives best results used with legumes in rotation.

Guard Against Low Prices

By building up this mineral reserve now when farm income is relatively high, the individual farmer may be able to safeguard his business with plant food reserves for times of lower prices, or during emergencies when fertilizers are not readily available. Of course, there is an opposing view to the effect that the economical time to build up the soil is when prices are low.

Along with rock phosphate, farmers are asking about calcite, too. It is new in the Kansas fertilizer picture. Calcite is pure calcium carbonate, very nearly 100 per cent calcium carbonate. Its cost seems also to be \$20 and more a ton. To pass triple-A specifications, limestone must have 80 per cent or more calcium carbonate. And it can be spread on the field for \$5 a ton and less. For that reason Kansas agronomists seem to doubt the practicability of calcite in the Kansas picture.

More than that, there are agronomists studying the possibilities of beneficial elements in the so-called impurities of limestone. Small amounts of other essential plant food elements may be contained in those impurities.

**HOGS**

**For Your Own Sake Attend Hartmans' Poland Sale**



**Monday, February 28**  
Farm near Elmo, Kan.

60 TOPS as big and smooth as they grow.  
40 Bred Sows and Gilts  
20 Fall Boars and Gilts  
General Ike and Midwest breeding.  
J. J. Hartman & Son, Elmo, Kansas

**Offering REG. SPOTTED POLAND CHINA GILTS**

Bred to Silver Lad (son of Big Chief) and grandson of the 1946 Grand Champion for February, March and April farrow. Also a few spring boars and fall pigs. Everything double immuned.  
EARL AND EVERETT FIESER  
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**SPOTTED POLAND CHINA BOARS**

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

**WELLER'S SUPERIOR REG. SPOTS**

Offering excellent fall boars and gilts sired by Chief Rock of Ages and a son of Broadback King. The blocky kind with heavy hams, broad backs. Ready for shipment.  
W. F. WELLER, Dunlap, Kansas

**Spotted Poland China Gilts**

Bred for March farrow. Also a few late fall boars. Double immuned. See or write  
RANDALL TUCKER, Codell, Kansas

**Poland Fall Boars and Gilts**

Sired by "Mixer's Buster," Kansas grand champion, and by "Choice Goods," Kansas first prize junior yearling. Priced reasonable.  
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**BERGSTEN'S Improved Hampshires**

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

R. E. BERGSTEN & SONS, Randolph, Kan.  
Bred and open gilts, same breeding as winners in Carcass Contest at American Royal. Established type. See them.  
DALE SCHEEL, Emporia, Kan.

**March 5 Will Be Our Next Issue**  
Ads for the Classified and Livestock Section must be in our hands by **Saturday, February 26**  
If your ad is late, send it in Special Delivery to 912 Kansas Ave.

**HONEY**

New Crop. Fine Flavor and Quality. Sixty-pound can, \$12.00. Prepaid to 400 miles.  
HAHN APIARIES  
1715 Lane Topeka, Kansas

**DID YOU KNOW**

that up to 15 per cent of your adjusted gross income may be income-tax-free if it is given to charity? You can give that much to the Capper Foundation with little sacrifice to you, and think how much it will mean to handicapped youngsters who are in need of treatment to make them able to live like other boys and girls. Send your gift to The Capper Foundation for Crippled Children, Topeka, Kansas.

**Would Rather Farm Than Be a Doctor**



War Veteran DeWayne Lofgreen, Franklin county, spurned a career as a surgeon to take over his father's farm. He is starting his third year now of farming under the Veterans Institutional On-the-Farm Training Program.

*Editor's Note: This is No. 3 in a series of articles on the progress being made by World War II veterans learning to farm under the Veterans Institutional On-the-Farm Training Program.*

I GUESS I was just born to be a farmer," proudly says DeWayne Lofgreen, Franklin county war veteran. He is learning to farm under the Veterans Institutional On-the-Farm Training Program. When you look at DeWayne's background you have to agree with him, because he is reversing a family trend. His parents left the farm to study medicine. Both his father and mother are doctors now at Ottawa and, of course, had a medical career in mind for their son.

"I just couldn't see it," says DeWayne. Ever since I was a kid I have wanted to farm." His opportunity came when he got out of the air force after 3 years of service and came home to pick his life's work.

His father, Dr. V. J. Lofgreen, owned a 360-acre bottom-land farm southwest of Ottawa, with 160 acres under cultivation. Part of the farm was subject to flooding and had deteriorated to a point where it was too marshy and weedy to farm. There were other major problems to meet, including the fact that the farm outbuildings were not adequate and there was no lot fencing for any kind of a livestock program. "There wasn't a fence on the place that would hold a cow," says DeWayne.

**Made Many Improvements**

This was the situation 2 years ago when DeWayne made his choice. He turned down medicine to see what he could do with the family farm. With technical help from the Veterans Training Program, DeWayne is rapidly bringing order to the farm and has made many major improvements.

His 2 major problems, the soil and barn and lot accommodations for livestock, have received about equal attention.

Two rotations have been worked out for the cultivated areas, based on the type of soil and conditions existing in the respective fields. On about half the farm DeWayne will use alfalfa, red clover and corn. On the other half he will use wheat, soybeans and oats and sweet clover seeded together. One 40-acre worn-out pasture will be plowed up and put to crops. Twenty acres of alfalfa already have been established and 15 to 17 acres of red clover.

An entire system of lots was laid out and fenced. New outbuildings include a poultry house, brooder house, hog

house, hog shelter, a hay barn for baled hay and a 100-ton silo.

Beef and dairy will be the major livestock projects. DeWayne plans to build a registered herd of Aberdeen-Angus cattle, with an ultimate goal of 80 head. He inherited his love of Angus from his grandfather, who was very successful in the cattle breeding business.

Only 6 dairy cows are being milked now, but this small herd will be built up until 20 to 30 cows are milking. Somewhere along the line a modern grade-A milk barn will be erected. Like most other veterans with dairy projects in the Ottawa area, DeWayne is doing his own milk testing. Twenty-one out of 51 veterans in the Ottawa program are using the self-testing service.

Some idea of DeWayne's natural ability as a farmer can be obtained by looking over his progress to date. Under his management all of the land suitable for cultivation is being farmed this year for the first time in a number of years. On land subject to floods, and which is difficult to work in the spring, DeWayne has seeded wheat after spending a lot of hard work getting the soil into condition for seeding.

Very little work has been done on the home to date as it already was in fairly good condition. Electricity and a water system have been installed, however, and the home will be completely remodeled later.

Is DeWayne sorry he chose the farm? The answer is no. "I wouldn't trade places with Dad for anything," he says. "I am having the time of my life out here. I may not make as much money farming as I might have as a surgeon, but I know I'm going to have a lot more fun."

DeWayne is enthusiastic about the help he gets from the Veterans Training Program. "I couldn't get along without it," he states. "They give me all the technical help I ask for and I ask for plenty."

**Call Doctor More**

Farmers are buying more medical care now than in 1936. In fact, by 1946, farmers were spending 3 times as much for medical care as they did in 1936.

**HOGS**



**KANSAS STATE REG. BERKSHIRE HOG SALE**

**Bred Sows—Bred Gilts**  
Fall Pigs  
(Fair Grounds)

**Hutchinson, Kan.**

**Monday, February 28**

Show 11 A. M.—Sale 1 P. M.

For catalog address

SAM L. MURRAY, Secretary  
Valley Center, Kansas

**D. L. HINES & SON**  
Reg. Duroc Bred Gilt Sale

**Wednesday**  
**March 2, 1949**  
**1:00 P. M.**



on farm 3 1/2 miles north and 1/4 mile east of Dederick, Mo.—all-weather road, 19 miles northeast of Nevada, Mo., or 8 miles west Eldorado Springs, Mo.

30 Head Gilts bred for March and April farrow. Bred to a son of Top Star by Tops, Lad's Cherry Model by Gold Star's Lad, and Mo. Market Topper by Market Topper. These gilts are sired by O. W. W.'s Pioneer and out of dams by Nebraska Specialty.

5 Bred Sows, coming with second litter.  
6 Reg. Fall Boars.  
10 Reg. Open Fall Gilts.  
2 Reg. Hereford Bulls—2 and 4 years old.  
All hogs have been double treated for cholera.

D. L. HINES & SON, Owners, Harwood, Mo.  
Auctioneers: Darwin C. Johnson  
Donald J. Bowman and Welty Bros.  
For further information write  
Darwin C. Johnson, Deerfield, Mo., or  
Donald J. Bowman, Hamilton, Mo.

**Come With Confidence to MILLERS**  
**Monday, February 21**

**50 High Quality Durocs**  
Buy where the blood of such sires as Fancy Spot Light, and High Flyer has been tested and proven.

40 Bred Sows and Gilts mated to the promising sire, Model Keepsake.  
10 Fall Boars and gilts by Keepsake.

Sale on farm near town at 1 P. M.  
Get your catalog sale day.

**WELDON MILLER & SON**  
Norcatur, Kansas  
Auctioneer: Bert Powell

**SHEPHERD'S SUPERIOR DUROCS**

Offering excellent Bred Gilts sired by or bred to Super-Spotlight, Lo Thickmaster, Perfect Trend for latter February and March farrow. Also serviceable boars—big thick, deep bodied. Real Red heavy hammers. Visitors say "Best I ever saw." None better. Registered. Immuned. See these or write before buying elsewhere. Durocs only since 1904. Prices right. G. M. Shepherd, Lyons, Kan.

**DUROC BRED GILTS AND BOARS**

All ages, by Top Crown by the Illinois champion Crown Prince. Satisfaction or your money back. Best we ever raised.

BEN M. HOOK & SON, Silver Lake, Kansas

**TENNANT'S PRODUCTION DUROCS**  
For Sale—Choice gilts bred to Fleet Commander, a son of Fleetline 1947 Jr. Iowa Champion. Some were winners at Kansas Free Fair.  
O. A. TENNANT, Manhattan, Kan.

**1st ANNUAL CHESTER WHITE SALE**

**Friday, February 25, 1 o'clock**  
(Sale Pavilion)

**Marysville, Kansas**

**40 Head Reg. Chester Whites**

28 Bred Gilts—12 Fall Boars and Gilts  
Popular bloodlines. Well developed.

**H. J. HOLLE, Jr., & SON**  
Bremen, Kansas

**Bred Gilt Sale**

60 production bred gilts mated to Illinois Grand Champion Tradewind. All gilts selling are from litters of 10 or more. Write for Catalog.

**O'BRYAN RANCH - Niattville, Kansas**



Tradewind

Beef CATTLE

PENNEY and JAMES
Seventh Annual Draft
Sale of Aberdeen-Angus
Sale at farm just east of
Hamilton, Missouri
Time 12:30 P. M. on
March 1, 1949

The Sales Offering: 49 Bred Heifers carrying the service of Eileenmere 487th, Eileenmere 999th, Envious of Hamilton, Envious Burgess H., Homeplace Eileenmere 72nd, 7 Open Heifers and 9 Bulls, 9 of them sons of Eileenmere 487th. The usual high quality that has prevailed in the past Penney & James' sales will be offered. For catalog address J. B. McCORKLE, Sales Manager, Suite 3710 A.I.U. Bldg., Columbus, 15, Ohio

Win With the Modern Breed

Angus cattle rank first as producers of superior beef. Winning 3 times as many interbreed grand championships at the Chicago International as all other breeds combined, the Angus record includes 41 grand champion carcasses in 43 shows. For information write: American Aberdeen-Angus Breeders' Association 7 Dexter Park Ave., Dept. KF, Chicago 9, Ill.



REG. HEREFORDS

Bulls 10-24 months old; also a number of bred and open Heifers. Best of bloodlines.

RAY RUSK & SON
Wellington, Kansas

REG. HEREFORD BULLS

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

REG. HEREFORD BULL FOR SALE

Royal Tredway 3rd, 4-year-old son of WHR Royal Tredway 8th, the famous J. J. Moxley sire. Keeping his heifers, so he is priced to sell. Guaranteed breeder, 6 miles east and 3 miles north of Pretty Prairie.
GILBERT L. STUCKY, Pretty Prairie, Kansas

Offering Polled Herefords

Several bull calves and several heifer calves coming one year old. All sired by W. Advance Domino 2nd, a son of Aster Advanced 9th. Priced reasonable. We invite your visits and inquiries.
MARTIN I. SHIELDS and SONS
Lincolnton, Kan., near Highway 77 and 50N

BUY POLLED HEREFORD BULLS

9 to 24 months old
Sire: Pawnee Domino 22 by Pawnee Domino 8.
R. H. ZIEGLER
Rt. 2 Junction City, Kan.
(6 miles east of Junction City.)

We Offer Polled Herefords

Polled Hereford Bulls of serviceable ages. Also a few Heifers.
GEORGE L. RIFFEL & SON, Hope, Kansas

Polled Shorthorns

Bull Calves, 6 to 16 months old. Nice reds and roans, sired by Alpine Charmer and Royal Robin. Bred right, priced right. Come and see them.
Harry Bird & Sons, Albert, Kansas

POLLED SHORTHORN BULLS
This farm has bred and consigned 2 Grand Champions, 2 Reserve Champions, and 2 highest-selling cattle for the 3 annual Kansas State Polled Shorthorn sales.
Miller Stock Farms, Mahaska, Kan.

REGISTERED SHORTHORNS

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

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Experienced and capable. Farm Sales, Real Estate and Purebred Livestock.

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Haven, Kansas

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

Coming Events

- February 19 - Lane county 4-H model meeting contest.
February 21 - McPherson county garden-poultry meeting.
February 22 - Harvey county orchard and poultry day, Newton.
February 22 - Pottawatomie county crops meeting, Onaga.
February 22 - Labette county-wide engineering school.
February 23 - Woodson county farm management school, John Coolidge, leader.
February 23 - Morton county 4-H leaders training school, John Hanna, leader.
February 23 - Jewell county, district crop improvement and crop school, Concordia, L. E. Willoughby in charge.
February 23-24 - Harper county farmers' institute.
February 24 - Barton county crop improvement and certification school, Great Bend.
February 24 - Allen county farm management meeting, John Coolidge, leader.
February 25 - Shawnee county second stag night, Garfield Park shelterhouse, 7 p. m. Program, The Chicken of Tomorrow. Phone 8682 for reservations.
February 25 - Lane county poultry and garden meeting.
February 26 - Johnson county 4-H food leaders training school, Elizabeth Randle, specialist.
February 26 - Norton county 4-H junior leaders meeting with Glen Bussett, Norton, legion hall, 7:30 p. m.
February 28 - Jackson county district administrative conference, Holton.
February 28 - Jewell county - Women's unit leaders school, Miss Johnson, leader.
February 28-March 1 - Harvey county balanced farming meeting, Newton.
March 1 - Norton county, electrical appliances, care and maintenance and adequate lighting. Harold E. Stover, Norton, Legion Hall, 10 a. m.
March 1 - Johnson county, family life meeting.
March 1 - Jewell county swine and sheep school, C. G. Elling, leader.
March 2-3 - Jackson county foods and nutrition leaders training school, Holton.
March 3 - Jewell county poultry and garden school, W. G. Amstein, leader.
March 3 - Johnson county plant disease control meeting, C. L. King, specialist.
March 3 - Harper county dairymen's dinner.
March 4-5 - McPherson county balanced farming group meetings.
March 5 - Osborne county 4-H Club day.
March 5 - Norton county 4-H county council, Norton, Legion Hall, 1:30 p. m.
March 6 - Johnson county rural life meeting, Olathe, Legion building.
March 7 - Barton county poultry and gardening special interest meeting. W. G. Amstein and M. E. Jackson, specialists. Great Bend.
March 7 - Mitchell county, district 4-H leaders, Beloit, J. H. Johnson, leader.
March 8 - Rush county garden and poultry disease school. W. G. Amstein and M. E. Jackson, leaders. LaCrosse court house.
March 9-10 - Coffey county home improvement conference.
March 11 - Johnson county clothing meeting. Christine Wiggins, specialist, leader.
March 12 - Morton county home furnishings school, Kate C. Archer, leader.
March 14 - Finney county meeting, utilization of electrical equipment, Harold Ram-sour, leader, Garden City.
March 14 - McPherson county dairy meeting.
March 14 - Norton county balanced farming meeting, Norton, Legion hall, 10 a. m.
March 15 - Labette county-wide sheep and swine school, Altamont.
March 16 - Harvey county dairy day, Newton.
March 16 - Johnson county soil conservation and crops meeting and demonstration. Walter Selby and L. E. Willoughby, specialists, leaders.
March 17-18 - State bindweed meeting, Topeka.
March 18 - Johnson county 4-H training meeting, Roger Regnier, specialist, leader.
March 19 - Seward county 4-H festival.
March 19 - Lane county 4-H Club day.
March 21 - Johnson county fruit and vegetable meeting, W. G. Amstein, leader.
March 21 - Jackson county tractor maintenance school, Holton.
March 22-23 - Seward county. Five-state farm forum, Liberal.
March 23 - Norton county crops, livestock and insect school, also outlook, Norton, 10 a. m.



"One . . . two . . . three . . . four . . . five . . ."

- March 24 - Jewell county district county planning meeting, Mankato, C. R. Jaccard.
March 24 - Johnson county clothing meeting, Christine Wiggins, leader.
March 24 - Shawnee county third stag night, Garfield Park shelterhouse, 7 p. m. Program, power farming. Phone 8682 for reservations.
March 24 - Allen county district publicity school for Extension agents, Iola.
March 25 - Lyon county tractor maintenance program for 4-H members and adults.
March 26 - Lyon county 4-H festival, Emporia.
March 26 - Jewell county sub-district 4-H day.
March 29 - Johnson county farm management and farm and home planning meeting. Steve Love and Gladys Myers, leaders.
March 30 - Johnson county clothing meeting, Christine Wiggins, leader.

Public Sales of Livestock

- Aberdeen-Angus Cattle
February 22 - U. S. Center Aberdeen-Angus Breeders' Association, Smith Center, Kan.
February 24-25 - Heart of America Breeders' Association, Kansas City, Mo. W. Clay Woods, Secretary, 912 Commerce Bldg., Kansas City, Mo.
February 26 - L. M. Thornton, Garden City, Mo.
February 28 - Johnston Brothers, Belton, Mo.
J. B. McCorkle, Sales Manager, Suite 3710 A. I. U. Bldg., Columbus 15, Ohio.
March 1 - Penney & James, Hamilton, Mo. J. B. McCorkle, Suite 3710 A.I.U. Building, Columbus 15, Ohio.
March 8 - C. E. Reed, Wichita, Kan.
March 29 - South Central Nebraska Angus Breeders, Hebron, Nebr. Claude L. Rowley, Sale Manager, Hebron, Nebr.
Brown Swiss Cattle
February 26 - Gerald Steva and Associated Breeders, Iowa Falls, Ia. Norman E. Magnussen, Sale Manager, Lake Mills, Wis.
Guernsey Cattle
May 2 - Missouri Guernsey Breeders' Association, Columbia, Mo. H. A. Herman, Secretary, Eckles Hall, Columbia, Mo.
Holstein Cattle
March 8 - National Consignment Sale, Tulsa, Okla. C. O. Abercrombie, Secretary, Box 69, Vinita, Okla.
Hereford Cattle
February 21 - Kansas Hereford Association, Hutchinson, Kan. A. G. Pickett, Secretary, Mannattan, Kan.
February 26 - C. K. Ranch, Brookville, Kan.
February 28 - Round-Up Hereford Sale, Kansas City, Mo. Managers, American Hereford Association, 300 West 11th St., Kansas City 6, Mo.
March 7 - Marshall County Hereford Breeders, Marysville.
March 15 - Riedinger Ranch, DeSoto, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.
March 16 - Morris County Hereford Breeders' Association, Cowley Grove, Kan.
March 29 - North Central Kansas Hereford Breeders, Belleville, Kan.
April 22 - Northwest Kansas Hereford Breeders' Association, Atwood, Kan. H. A. Rogers, Manager, Atwood, Kan.
November 7 - Cowley County Hereford Breeders' Association, Chas. H. Cloud, Secretary, Winfield, Kan.
Shorthorn Cattle
March 23 - Central Kansas Shorthorn Sale, Fair Grounds, Hutchinson, Kan. Frank E. Leslie, 516 West 15th St., Hutchinson, Kan.
March 31 - Mid-Kansas Shorthorn Breeders Sale, Salina, Kan. Mervin F. Aegerter, Sales Manager, Seward, Nebr.
April 6 - North Central Kansas Shorthorn Breeders sale, Beloit, Kan. Edwin Hedstrom, Secretary.
Polled Shorthorn Cattle
April 7 - Oklahoma-Kansas Polled Shorthorn Sale, Buffalo, Okla. Max Bart, Jr., Sale Manager, Buffalo, Okla.
Berkshire Hogs
February 28 - Kansas Berkshire Association, Hutchinson, Kan.
Chester White Hogs
February 25 - H. J. Holle, Jr., & Son, Bremen, Kan.
Duroc Hogs
February 21 - Weldon Miller, Norcatour, Kan.
Hampshire Hogs
February 26 - O'Bryan Ranch, Hiattville, Kan.
March 26 - W. D. Ernst & Son, Avilla, Mo.
Hereford Hogs
February 21 - Missouri State Breeders' Show and Sale, Nevada, Mo. L. Tanzberger, Secretary, Tina, Mo.
Poland China Hogs
February 24 - Missouri State Breeders' Show and Sale, Carrollton, Mo. Paul Bogart, Sec., Holt, Mo.
February 28 - J. J. Hartman & Son, sale at farm, Elmo, Kan.
Spotted Poland China Hogs
February 22 - Kansas Spotted Poland China Breeders Sale, Marysville, Kan. Wayne L. Davis, Sale Manager, Mahaska, Kan.
Hogs - Several Breeds
February 19 - Clay County Hog Breeders, Clay Center, Kan.
Sheep - All Breeds
June 24-25 - Midwest Stud Ram Show and Sale, Sedalia, Mo. Rollo E. Singleton, Secretary, Columbia, Mo.

Dairy CATTLE

Pabst's Holstein family at Sunnymede Farm, Topeka
Senior Sire
Pabst Burke Lad Star
Son of "Burke"
Junior Sire
Pabst Burke Ned
Son of "Burke"
Pabst Hickory Creek Roamer
Daughter of Pabst Roamer
Sons of Pabst Burke Lad Star are available
C. L. E. EDWARDS, Topeka, Kan.

SMOKY VALLEY HOLSTEINS

Young Breeding Stock for Sale
W. G. Bircher & Sons, Ellsworth, 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, LEBO, KAN.

3rd Scenic City BROWN SWISS SALE
Saturday, February 26

Heated F. F. A. Barn at Iowa Falls, Iowa
65 Head featuring dispersal of the Gerald Steva herd plus other choice consignments.
Sale Managed by NORMAN E. MAGNUSSEN
Lake Mills, Wis.

AYRSHIRES MOST PROFITABLE COWS
Big Milkers Hardly Rustlers
Good Grazers Perfect Udders
4% MILK
Write for Booklets and List of Breeders near you with Stock for sale
Ayrshire Breeders' Association
260 Center St., Brandon, Vt.

REGISTERED GUERNSEYS

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

Dual-Purpose CATTLE

MILKING SHORTHORNS
For information, "For Sale" list, state membership directory, or complete sales service, write C. O. HEIDEBRECHT, Sec., Kansas Milking Shorthorn Society, Inman, Kansas.

AUCTIONEERS

BERT POWELL
AUCTIONEER

LIVESTOCK AND REAL ESTATE
1529 Plass Avenue Topeka, Kan.

Livestock Advertising Rates

1/2 Column inch (5 lines) . . . \$3.00 per issue
1 Column inch . . . . . 8.40 per issue
The ad costing \$3.00 is the smallest accepted.

Publication dates are on the first and third Saturdays of each month. Copy for livestock advertising must be received on Friday, eight days before.

JESSE E. JOHNSON, Livestock Editor
MIKE WILSON, Fieldman.
Kansas Farmer - Topeka, Kansas

Dissolution Sale of the SILVER TOP FARM'S ABERDEEN-ANGUS HERD

Sale will be held at the Johnston Brothers' Farm near BELTON, MISSOURI, on FEBRUARY 28, 1949 (Sale at 10:00 A. M.)

150 HEAD OF PUREBRED ABERDEEN-ANGUS WILL SELL

A Very Desirable Sales Offering: (1) The sale, get and service of Eileenmere 649th, No. 794027, considered by many to be the best son of Eileenmere 487th. (2) The sale, get and service of Beefmaker 34th, No. 767266, one of the best headed bulls in service today and a grandson of Black Prince of Sunbeam. (3) The sale and service of Grenadier 2nd of Deer Creek, No. 100113, an intensely Bandolier bred bull from a Bandolier of Anoka 7th dam. (4) 20 Young Bulls, many are herd sire prospects. (5) 8 imported families including 2 Ballindaloch Georginas, 1 Gammer, 1 Witch of Endor, 1 Ballindaloch Jilt, 1 Lucy, 1 Miss Burgess, 1 Pride of Aberdeen. (6) Also selling are 2 Blackcap Bessies, 4 Hollinger Chimeras, 9 Maid of Bummers Miss Burgess, 6 Ballindaloch Georginas, 8 Juana Ericas, 14 McHenry Barbars, 5 Missouri Barbars, 2 Witch of Endors, 2 Zarah, 1 Edwina Erica, 9 Ballindaloch Jilts and 49 other females all from standard families. (7) Many cows with calves at side and rebred. (8) Bred heifers and open heifers. (9) Of course, all the cattle from the show herd sell.
For sale catalog write to J. B. McCorkle, Sale Manager, Suite 3710 A. I. U. Bldg., Columbus 15, Ohio, or Johnston Brothers, Belton, Mo.



JOHNSTON BROTHERS, BELTON, MISSOURI

"BOY G., CHESTER B., and NOAH E."
Sale Headquarters: Phillips Hotel, Kansas City, Mo.
Heart of America Sale Circuit: February 25 - Heart of America Assn., Kansas City, Mo.; February 26 - M. Thornton, Garden City, Mo.; February 28 - Johnston Brothers' Silver Top Farm, Belton, Mo.; March 1 - Penney & James, Hamilton, Mo.; March 2 - North Central Missouri Assn., Chillicothe, Mo.; March 3 - Northeast Missouri Assn., Memphis, Mo.

**IN THE FIELD**



**Jesse R. Johnson**  
Topeka, Kansas  
Livestock Editor

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

**CLARENCE H. RALSTIN**, who lives out at Mullinville in the locality "where the West begins," writes us to continue his advertising and says the registered Shorthorns are comfortable despite heavy snow and sleet. He adds that some wheat is likely to be smothered by the ice but all in all things are very good. Mr. Ralstin grew up near Mullinville, where he now has a large farm and grows Shorthorns of quality and the kind that are developed to withstand the rigors of both cold and drought.

**C. M. SHEEHY**, Richards, Mo., held a Duroc sale at the Welty Brothers sale pavilion in Nevada, Mo., on February 3. The report sent us by this breeder indicates a good demand for his Durocs from both Kansas and Missouri breeders. The top on bred gilts was \$155 and C. W. McClaskey, Girard, was the buyer. I. A. Edwards, Mapleton, paid \$155 for a gilt, with Lee Wescot, Hiattville, paying \$150 for one. Top fall boar at \$115 went to M. A. Hefton, Redfield. The average on bred gilts was \$140. Twenty head stayed in Missouri, 15 head went to Kansas and 5 head to Oklahoma. Welty Brothers were the auctioneers. A good crowd attended despite bad roads which were covered with ice.

From Kansas to Canada on a 1,000-mile air flight went a 13-weeks-old Hereford bull from the **CK RANCH**, Brookville. The calf, CK Baca Royal 34th, was purchased by Jack Stuart, of Old Orchard Farm, Petersburg, Ont., and, because of his youth and value as a prospective herd bull, was flown by chartered plane to his new home. Born October 16, the calf was only one week old when Mr. Stuart spotted him while visiting at CK. This deep-bodied, blocky son of CK Baca Royal pleased Mr. Stuart and he made tentative arrangements for purchase of the calf, which were completed by his neighbor, George Rodanz, of Ringwood Farms, who later visited the CK Ranch and purchased 74 heifers for his Canadian farm. The calf was flown to Toronto on January 29.

The **O I C HOG BREEDERS** of Kansas held their annual spring sale of bred sows and gilts at Fredonia, on February 11. The hogs were placed in classes for selling order in the morning by Professor C. E. Aubel, of Kansas State College, Manhattan. Interest in O I C hogs in that section of the country seemed to be quite promising.

The champion of the show was a gilt from the herd of Mr. and Mrs. Sylvester Martin, of Mount Hope. She also was the top-selling sow in the sale at \$175 going to Vernon McRoberts, of Neodesha.

Vernon Zimmerman, of Inman, consigned and sold the champion and top-selling boar, at \$85. Prices paid ranged from \$175 down. Vernon Zimmerman also managed the sale and did a fine job. Colonel Harold Watkins, of McCune, did the selling.

The time was when Poland China hogs were either of the race horse or Rolly Polly type. First they were bred to look at—5 white points, typical ears and too small to be bred and grown out at a profit, and for small litters. This kind held the center of the stage for many years in Kansas. To qualify, they also had to come from Chief Perfection 2nd ancestors. This type was followed by another extreme — top tall and narrow hammed, hard feeders and not even good to look at. I know of several old-time breeders who lead the trend for a big medium sort of hog that possessed plenty of size with easy feeding qualities, farrowed big litters and went to market after short feeding periods. Among the foremost of these stalwart advocates of the medium kind is **J. J. HARTMAN**, of Elmo. He has perfected a type that suits the needs of men who grow hogs for profit.

The **NORTH CENTRAL KANSAS MILKING SHORTHORN SOCIETY** held its annual meeting at Salina, January 18. A good number of members were present and many worthwhile projects having to do with the successful breeding and marketing of cattle were discussed. Among other things, the spring shows, of which 6 will be held in various districts of the state, to be climaxed by a show of the winners at the American Royal, at Kansas City. The North Central annual fall sale will be held in early November, at Salina, and their spring show will be at Junction City, the last week in April. Officers of the association were elected as follows: President, Gordon L. Janssen, Bushton; vice-president, Chas. Heinze, Wilson; secretary-treasurer, Chester H. Rolfs, Lorraine. Directors: M. H. Peterson, Junction City; Gordon L. Johnson, Bushton, and Lavern Johnson, Assaria. Plans for a field day and picnic are to be made later.

**KANSAS DUROC BREEDERS** assembled at Marysville, February 12, for their annual bred sow sale. Wayne Davis, breeder at Mahaska, did a wonderful job in placing the gilts for selling order in the morning preceding the sale. They were placed in blue, red and white ribbon groups, and followed thru the auction in that manner. The 3 gilts placed in the blue ribbon group, were consigned by Ralph Schulte, Little River; Vern V. Albrecht, Smith Center and L. G. Wreath & Son, Manhattan. Albert Johannes, Marysville, purchased the Schulte and Wreath gilt at \$200 each. The gilt consigned by Mr. Albrecht also brought \$200; she was purchased by Oliver Bricker, of Farragut, Iowa.

There were 6 fall boars in this show and sale. The champion and top-selling pig came from the L. G. Wreath herd, at Manhattan, and sold to E. M. Kidder, of Bird City, at \$85. Bert Powell, assisted by press representatives, handled the sale.

The Duroc sale of bred gilts held February 1 by **EARL MARTIN & SON**, of DeKalb, Mo., averaged \$169 on 38 head. Kansas buyers were present and purchased several head. The second top of the sale went to Charles L. Streeter, Riley. This gilt was a littermate to the 1948 Missouri junior champion gilt that topped the sale at \$425. She was sired by Progress and bred to the well known Modern Trend. Modern Trend had made an excellent reputation for

himself as a sire of prize winners in the breeding and barrow classes at many important shows. Other Kansas breeders who bought gilts sired by Progress and bred to Modern Trend were Allen Lard, Clay Center; Arthur E. Roepke, Waterville; Gerald P. Abbott, Leona. Six fall boars were sold for an average of \$60. Top fall pig, a son of Progress, sold for \$85 to Alvin Seeland, Everest. Wilson S. Hawks, Effingham, also purchased a fall boar. Conservative prices prevailed and many good buys were made in this auction. Bert Powell, auctioneer.

The **NORTHEAST KANSAS HEREFORD BREEDERS' ASSOCIATION** annual sale, held at the Topeka fairgrounds, February 5, scored much higher prices than a year ago. A bull top of \$575 was reached twice. Ray Hogue, of Horton, paid that figure to William True, of Paxico, for a son of Real Nugget 89th. E. W. Rezac, Hereford breeder of Rossville, selected Premier Advance 7th from the Premier Hereford Farm consignment, at \$575, to head his good herd of registered Herefords.

Elmer Becker, of Meriden, showed and consigned the top female, Miss Aster 2nd. Lee Cowden, of Reading, purchased this champion female to add to his good herd at \$550. Twenty females in the sale averaged \$295 a head. Thirty-seven bulls averaged \$340. Fifty-seven head of cattle made a general average of \$330 a head, which was \$39 a head more than the 1948 average. Elmer Becker, of Meriden, did his usual fine job of managing the sale.

I have a copy of a general letter that has gone out from the **W. H. MOTT WHITEHALL HOLSTEIN FARM**, at Herington. While the letter has some earmarks of advertising, most of it is complimentary of the **KANSAS STATE HOLSTEIN BREEDERS' ASSOCIATION**. Among the past year's achievements listed in the letter, is the highly successful show and sale at Kansas City sponsored by the Kansas and Missouri associations; the highest average state sale held in the United States, both for 1947 and 1948; the self-supported Holstein Quarterly edited by Secretary T. Hobart McVay; strong financial condition of the association; well attended and high-class district shows; the fine co-operation between National Field Representative Raymond Appleman and the breeders in this state, as well as in Oklahoma, Nebraska, and Texas, and more than anything else the absence of any factional differences between members and officers of the association. A small part of the letter contains information and comment about Mr. Mott's herd bull, Pioneer Rag Apple Barron, the only son of Montvic Pathfinder in Kansas.

There was something unusual about the **VERN V. ALBRECHT** annual Duroc sale, at Smith Center, February 7. Mr. Albrecht says he received only 2 inquiries prior to the sale. But at 10 o'clock on the morning of the sale the Smith Center sale pavilion was packed from wall to wall; evidently the advertising paid off.

The morning was spent placing the animals in various classes, by FFA and high school judging teams from Kansas and Nebraska. The top ranking team in the contest came from Red Cloud, Nebr.

At 1 o'clock Col. Bert Powell started asking for bids on the first animal in the ring. This was one of the swiftest auctions of the season. Prices paid for this offering were above expectations of everyone. The average on the bred gilts was \$139 a head.

R. L. Vernon, of Oberlin, purchased the top gilt in the sale at \$285. There were several fall boars sold thru the sale from \$40 to \$85 a head. Several fall gilts were sold up to \$90 a head. The larger part of this offering stayed in Kansas. This was Mr. Albrecht's forty-ninth sale.

Due to an oversight no report of the **THIRD ANNUAL BRED EWES SALE** held at Hutchinson in December has been reported in Kansas Farmer. Secretary R. E. Cox has provided an interesting summary of this sale in connection with the 2 previously held. In the first sale, 1946, 58 head of Corriedales, Hampshires, Shropshires, and Southdowns sold for an average price of \$62.32. The 1947 sale average on 55 head of the same breeds, including 9 head of Suffolks, averaged \$64.52. In the 1948 sale, 74 head, consisting of the 4 breeds, brought a general average of \$57.47. The last 2 sales did not have any Corriedales. Henry Bock, Wichita, sold the top Shropshire in the 1948 sale, for which he received \$120. The top Hampshire brought \$90.00, consigned by Mrs. W. A. Young, of Clearwater. High-selling Suffolk was consigned by Mr. and Mrs. Sylvester Martin, of Mt. Hope, selling at \$115.00. The Southdown top was furnished by Erhart Tonn, Haven. The selling price was \$75.00. A show was held in connection with the sale. A good crowd, together with advancing prices, indicates prosperous years ahead for Kansas sheep growers.

**Warm the Varnish**

Before you start varnishing, heat the varnish in a pan of hot water. This allows the varnish to go on much quicker and smoother, and it goes further.—Mrs. P. S.

**Wax Remover**

To remove candlewax from tablecloth, scrape off as much as possible, then place a blotter beneath the spot and another blotter over the spot and press with a warm iron.—Mrs. J. H.

**Trend of the Markets**

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

	Week Ago	Month Ago	Year Ago
Steers, Fed	\$21.00	\$28.25	\$25.50
Hogs	20.25	22.50	23.75
Lambs	22.00	24.50	23.25
Hens, 4 to 5 lbs.	.24	.25	.18
Eggs, Standards	.40½	.43½	.40½
Butterfat, No. 1	.55	.60	.80
Wheat, No. 2, Hard	2.19½	2.30½	2.69½
Corn, No. 2, Yellow	1.26¼	1.42¾	2.23
Oats, No. 2, White	.82½	.89½	1.26
Barley, No. 2	1.21	1.32	1.80
Alfalfa, No. 1	30.00	30.00	38.00
Prairie, No. 1	20.00	17.00	19.00



**CK HEREFORD SALE**  
Sale in pavilion on ranch.  
**Brookville, Kan., Saturday, Feb. 26**

**40 Bulls --- 35 Females**

The bulls selling are of serviceable age and the uniform high quality and top bloodlines makes this our best offering. Most of the females carry the service of *CK Baca Royal* or *CK Creator 31st* and they hit a new high in quality and desirability. The progress of CK cattle is further proven by this offering. Last year our bull, *CK Creator 13th*, was grand champion at the Denver Stock Show. At the same show this year our car load of senior bull calves were first and reserve champions and our yearling car load was second. Both loads were sold to former customers at the top prices paid for car load lots. The two first-prize winners in the show were bred by CK and only one other breeder bred more than one blue-ribbon winner. The choicest offering of this progressive CK blood sells on **Saturday, February 26**

Write quick for catalog or get one sale day.

**CK RANCH, Brookville, Kan.**

**65 Top Herefords Selected From 20 Herds**  
**ANNUAL SHOW AND SALE**  
**Marysville, Kan. - Monday, March 7**  
Show at 9 A. M. - Sale at 12:30 P. M.  
Polled and Horned

55 Top Bulls suited to the needs of farmers, ranchmen and purebred breeders. 10 Extra Choice Females. Write now for catalog.

**ELMER E. PETERSON, Secretary-Treasurer, Marysville, Kansas**  
Auct.: Fred Chandler Judge from KSAC Mike and Jess with Kansas Farmer

**Tulsa, Okla., Spring Classic**  
At the Tulsa Fairgrounds  
**Tuesday, March 8 --- Sale Starts 11 A. M.**  
**70 HEAD REGISTERED HOLSTEINS 70**

This is a **NATIONAL CONSIGNMENT SALE**. We are selling what we believe to be the finest bred heifers, high record cows and service-age bulls ever to be sold at auction in the Southwest. Consignments have been received from 7 states, **Carnation Milk Farms, Pabst Farms, Clyde Hill Farms, Hickory Creek Farms, Piper Bros., Allen Hettts, Rheder Bros., and John Hettts** are a few of the nationally famous consignors.

**These Leading Kansas Breeders Consign:**

<b>WALLACE BECKNER</b>	<b>DALE KUBIN</b>	<b>GEO. &amp; DWIGHT STONE</b>
<b>BEEZELY DAIRY</b>	<b>GROVER MEYER</b>	<b>ST. JOSEPH'S HOME</b>
<b>RAYMOND BOLLMAN</b>	<b>DOC MOTT</b>	<b>LUTHER SHETLAR</b>
<b>E. A. DAWDY</b>	<b>PHILLIPS BROS.</b>	<b>ABRAM THUR</b>
<b>EILRICH &amp; SONS</b>	<b>ERNEST REED &amp; SONS</b>	<b>WHITE &amp; SMITH</b>
<b>HEERCHE BROS.</b>	<b>ED REIGER</b>	

**Sale Sponsored by the Oklahoma State Holstein Association**  
For sale catalog write to the secretary

<b>C. O. ABERCROMBIE</b> Secretary, Box 69 Venita, Oklahoma	<b>BOB ADAMS</b> Chairman Sale Committee 116 East 5th Tulsa, Oklahoma
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Auctioneer—Bert Powell

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TEAT CUPS  
DON'T CREEP**



***SURGE* The Machine with the Built-in TUG & PULL!**

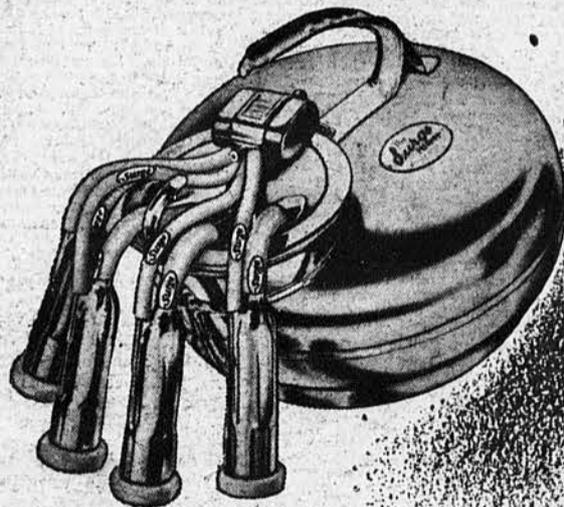
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