

Kansas Farmer

CONTINUING MAIL & BREEZE

MAY 21, 1949



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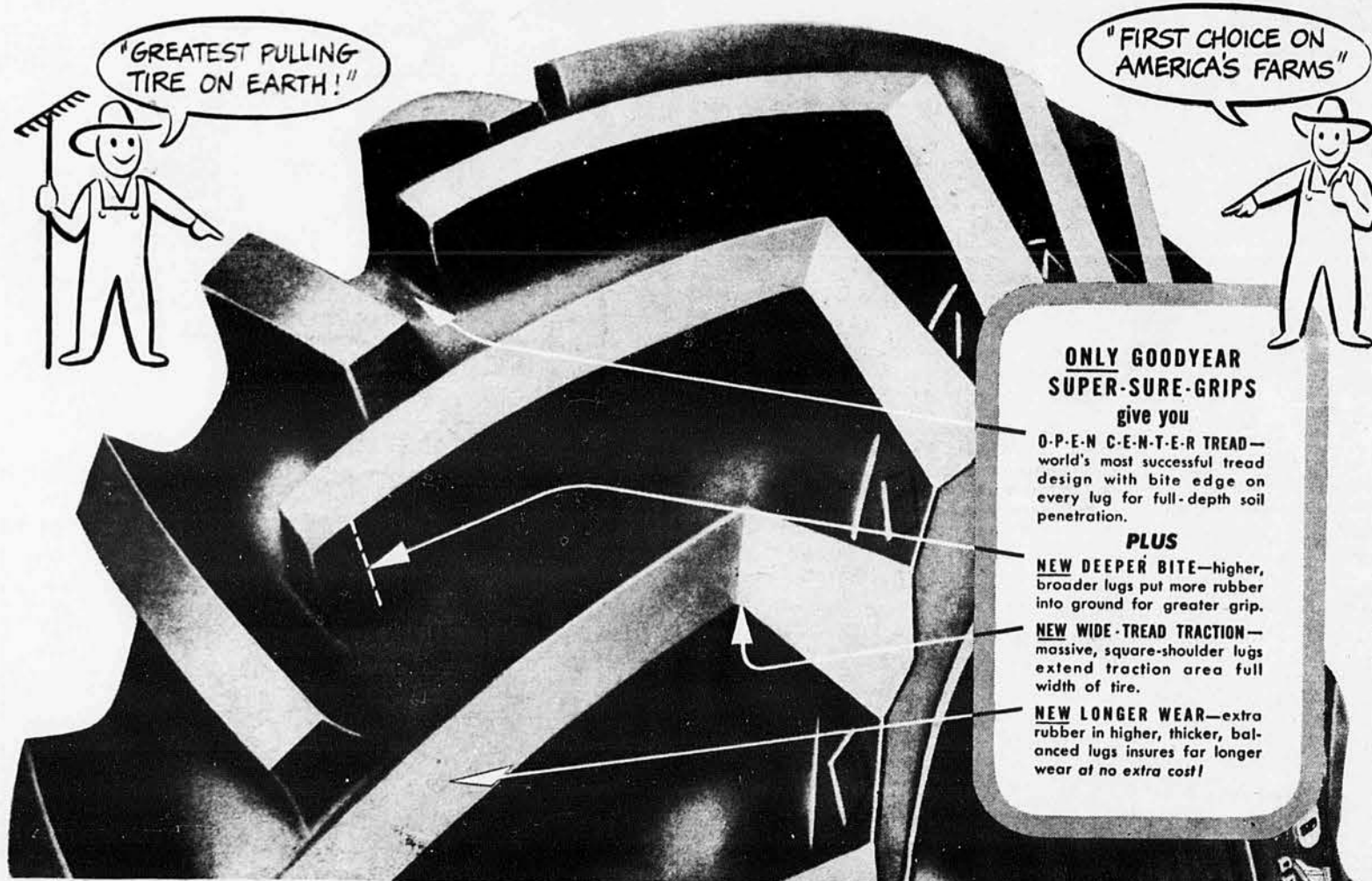
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GOOD YEAR

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Production Winners

HERE are the winners of the Kansas beef and swine production contests in 1948, as announced at the annual Feeders' Day program, at Kansas State College:

Feeder calves—Herefords: Ralph De-wall, Comanche county, 1st; C. C. Pies-ter, Kiowa, 2nd; H. F. Parkin, Kiowa, 3rd; Briggs and Bailey, Kiowa, 4th. Angus: Warner Ranch, Ford, 1st; Palm-quist Brothers, McPherson, 2nd; Spur Ranch, Chautauqua, 3rd; Wear and Pruitt, Mitchell, 4th. Shorthorns: Joe Gant, Barber, 1st; Iley Sexan, Wallace, 2nd.

Creep-fed calves—Herefords: Bill True, Wabaunsee, 1st; J. O. Sontag, Butler, 2nd; R. D. McCallum, Chase, 3rd; J. Blaine Adams, Cowley, 4th. Shorthorns: Ed Visser & Son, Riley, 1st; Carl W. Oberst and S. Ash, McPher-son, 2nd. Angus: Spur Ranch, Chau-tauqua, 1st.

Deferred-fed calves: Dan Casement, Riley, 1st; John C. Frey, Riley, 2nd; John Shaw and Elmer Olandt, Wash-ington, 3rd; Groene Bros., Cowley, 4th; Ray Coleman & Son, Wabaunsee, 5th; Walter Bitterlin & Son, Geary, 6th.

Swine production: Division 1, for pro-ducers with 3 to 7 sows: Lyle Camp-bell, Harvey, 1st; Harold Holste, Nor-ton, 2nd; Robert Palmquist, Cloud, 3rd. Division 2, for producers with 8 or more sows: Arnold Rose, Mitchell, 1st.

Spraying Date Important

Farmers and ranchers planning to use 2,4-D to control weeds on pasture land this spring are reminded that the time of application is extremely im-portant—sometime between May 20 and June 15 for control of most weeds.

G. L. McCall, agronomist at Kansas State College in Manhattan, explains that it is during this time the root reserves of most weeds reach their lowest point and are most susceptible to the chemical. Most of the weeds also are in their most active growing stage during the spring before the onset of hot, dry weather. They respond more readily to 2,4-D at that stage than when treated at a later time. These facts are true of most weed species commonly infesting pastures, includ-ing sumac, ironweed, buckbrush and vervain, McCall explains.

Good Cows

Three Holstein herds in Kansas have recently completed a year of production testing in the official HIR program of the Holstein-Friesian Association of America.

Kansas State College, Manhattan, had 21 cows averaging 426 pounds of butterfat and 11,872 pounds of milk in 333 days on 2 milkings daily; Wallace J. Beckner, Belle Plaine, had 13 cows averaging 408 pounds of butterfat and 11,079 pounds of milk in 297 days on 2 milkings daily; W. G. Bircher & Sons, Ellsworth, had 24 cows averaging 401 pounds of butterfat and 11,817 pounds of milk in 308 days on 2 milkings daily.

Senator Capper on Radio

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

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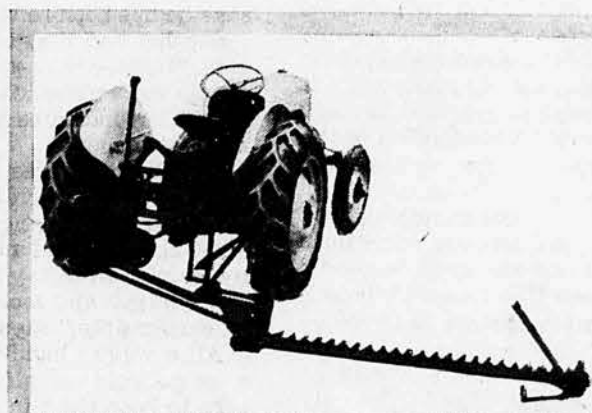
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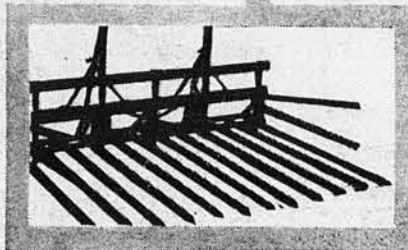


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Ford Farming

MEANS LESS WORK . . .
 MORE INCOME PER ACRE

How Was Your Spring Pig Crop

?

By Dick Mann

IS THERE anything to the statement that "Poor pig crops follow good corn crops"? Some hog experts claim it is true. Just off-hand, it doesn't seem to make sense. Yet, we have talked to a lot of hog producers in the last few weeks and many of them report very poor luck with pigs this spring.

Apparently, there is some connection between the pig crop and a large supply of corn. In talking with farmers about their problems with pigs this spring, some of them did bring up the point of corn supply in relation to poor pig crops. This is what they say:

"When there is a good supply of corn and the feeding ratio is favorable for pig production, it is a very common practice to overfeed the sow during the gestation period. Overfeeding of the sow can and does cause trouble and loss of pigs." So, there you have it.

Some of the old-timers in the game admitted this spring that they "get careless sometimes when corn is plentiful and the ratio is good." Most good livestock men like to see their animals eat well and the temptation to overfeed always is present.

None of the farmers we talked to would go so far as to say that overfeeding is the only cause of pig losses this spring, or any other time. Whatever the causes, it is too late to undo the damage affecting this spring's crop of pigs. But, it is never too late to analyze our troubles and plan ahead so those mistakes will not be repeated with the fall pig crop, or again next spring.

Since we started out with the problem of feeding the sow during gestation, let's take up

the answer to that one first. We picked 3 farmers who had excellent luck with their spring litters and got some details on their feeding and handling program. Maybe they have the answers and maybe they don't, but it will be worthwhile to look over their programs and compare them with yours.

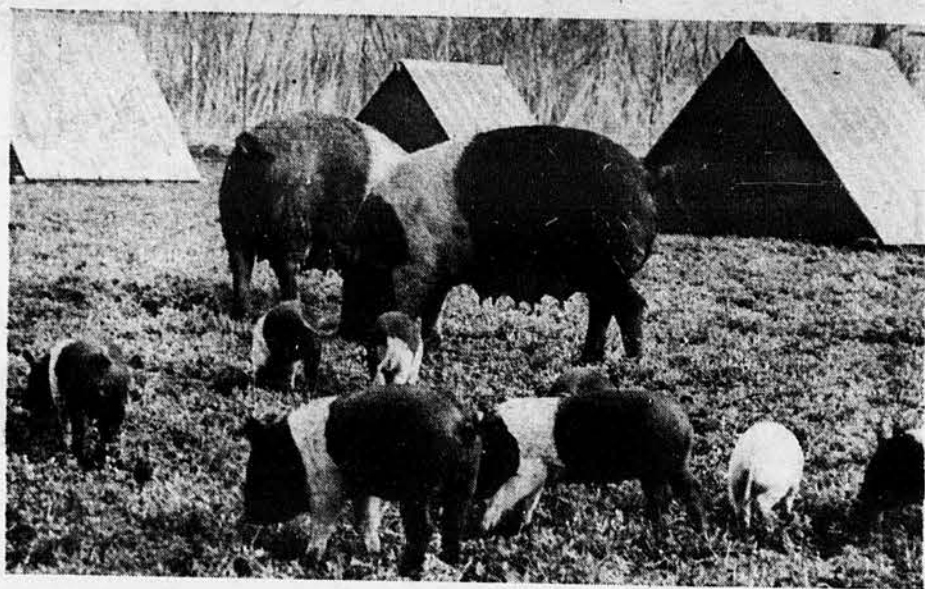
Raymond E. Bergsten and Sons, of Riley county, raise purebred Hampshires. They farrow 25 to 30 sows a year and have been in the purebred business for 12 years. Mr. Bergsten says he has been raising hogs ever since he can remember and they always have proved profitable. "I never have gone more than one year at a time without making a profit from hogs," he says. That indicates his management practices are pretty sound.

The Bergstens use a central farrowing house and breed for March 1 and September 1 litters. They plan to advance these dates 2 weeks to mid-February and mid-August. "By breeding for earlier litters, you can get your breeding stock larger and more attractive to buyers at an earlier date," says Mr. Bergsten.

All sows are hand-fed during gestation. The sows get oats and alfalfa meal and just enough corn to keep them in good condition. Mr. Bergsten says: "I especially like oats for breeding stock. It makes the ration more bulky and helps prevent overeating." He uses 2 parts oats to 5 parts corn or wheat for brood sows. These are mixed with 3 sacks of meatscrap to 100 bushels of grain. Minerals and salt are kept before all hogs on the place at all times.

Carrol Wahl, a young Pottawatomie county war veteran just starting on the farm on his

Hampshires on the Bergsten and Sons farm, Riley county, are farrowed in a central house, then moved to clean pasture. They are shown here on alfalfa. Later they will be on Balbo rye.

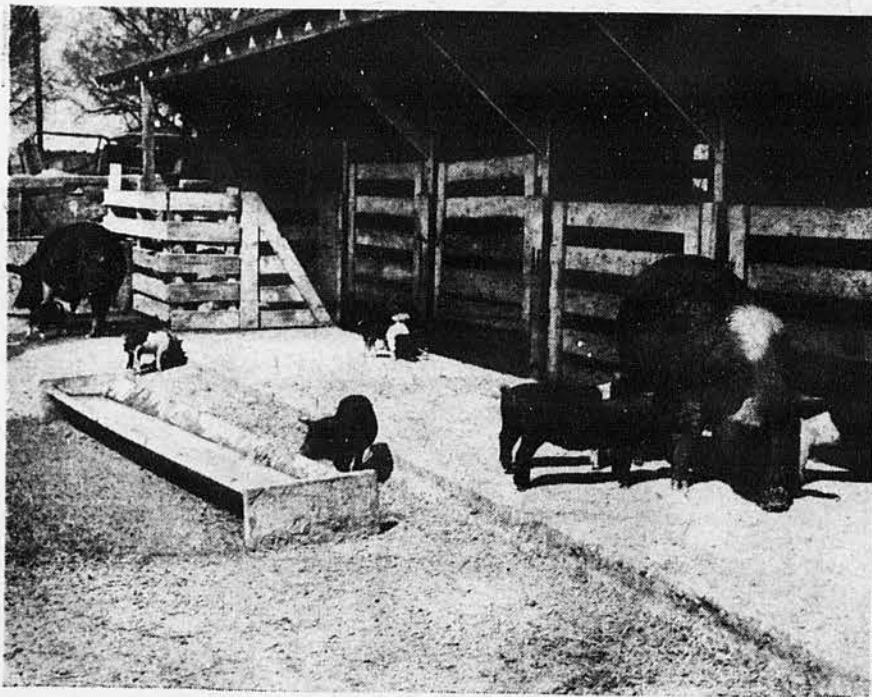


own, says he learned early and the hard way that it doesn't pay to overfeed a sow during gestation. Mr. Wahl did that with his first sow project as a 4-H Club boy. "I wanted her to look nice and fat so I fed her all she would eat," he recalls. "As a result, the pigs all got the thumps and died."

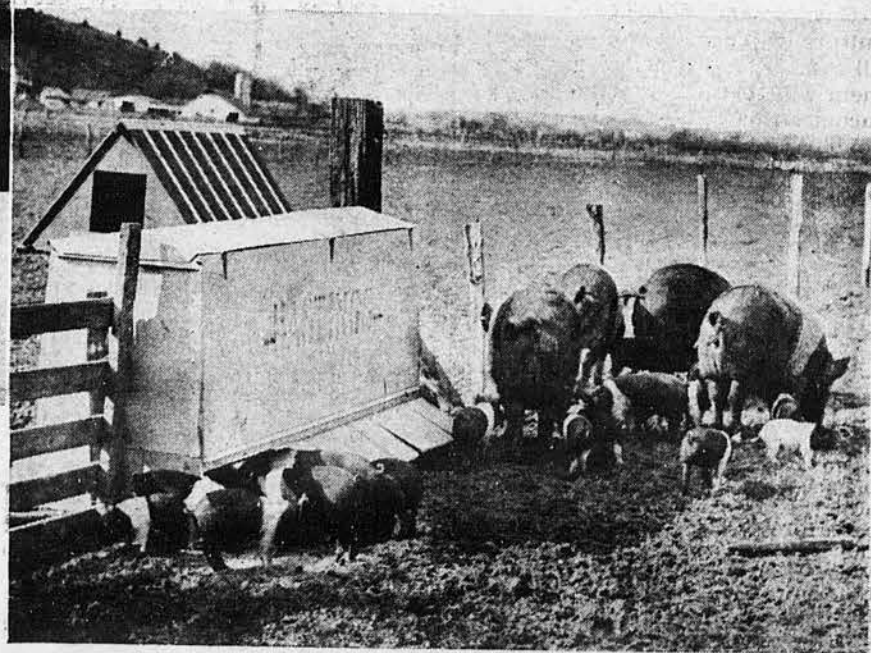
Now, Mr. Wahl knows better. During gestation his sows get 1½ pounds daily (hand-fed) of the following mixture—equal parts of dehydrated alfalfa meal, soybean meal, linseed meal and tankage (or meatscraps), whichever is cheaper, and 4 to 6 pounds of corn. The protein part of the diet is almost doubled the last month. Minerals and [Continued on Page 30]



At Right: Carrol Wahl, Pottawatomie county, uses individual farrowing houses as shown here, but moves them to clean ground each year. Looking over the Wahl pig crop is Harvey Goertz, Pottawatomie county agent.



Above: John Vogel, Douglas county, says this open-type central farrowing house eliminates colds and flu. The house also is easy to keep clean and dry.



At Right: While on range, sows and litters at Bergstens have access to large self-feeders. Note feeder is placed in fence line to serve 2 lots, thus cutting labor.

Farm Matters

AS I SEE THEM

I AM just about convinced that the Brannan national farm program (high prices for producers, cheap food for consumers, both at Government expense) is just one part of the "Great Illusion" which the all-powerful, Central Government

Planners are selling to the American people.

This Great Illusion is that money received from the Government is "free money." By "free money" is meant that Government money does not cost anybody anything—or if it does cost anyone anything, that anyone is some wealthy person, away off from ordinary life, who can well afford the experience.

This Great Illusion, that government money is free, received quite a boost during the war and the postwar months immediately following. It also had been preached extensively, and somewhat practiced, during the decade before we got into World War II.

The immediate effect of Government spending more money than it takes in, when carried on a big enough scale, of course, seems to make this illusion look like the reality. This was done on a comparatively mild scale thruout most of the Thirties. It was done on a big scale, in the grand manner, so to speak, during most of the Forties.

But the belief that government money is free money, and that the Federal Government's resources are not only free but also are inexhaustible, is an illusion just the same.

In the long run, history has taught those who suffered from this great illusion; taught them that the people have to pay in taxes for all they get from the Government Treasury, plus interest charges for money borrowed for excess expenditures, plus the overhead of Government bureaus, boards, commissions, and other agencies which handle the programs. But the lesson nearly always has been learned too late.

I was one of those who warned and protested and voted against the government food subsidies during the war years. I stated at the time that once the Federal Treasury was drawn upon to pay consumers' grocery bills, thru food subsidies, then the beneficiaries of the food subsidies would raise such a howl when they were called upon to pay their own grocery bills—thru higher prices when the subsidies were stopped—that demagogues would try to make the food subsidies permanent.

I am very much afraid that is just what the Brannan program, as presented to the Congress and the country by Secretary of Agriculture Charles F. Brannan, proposes to do.

Of course, Secretary Brannan does not say that in his long and carefully-worded explanations of and arguments for, his program.

But when you cut thru the explanations and arguments you get just about this:

Government, thru the Department of Agriculture, will decide what is a "fair" income for all American farmers put together. Government will then give the American farmers that income, thru support prices on a few major commodities; thru government purchases and sales at losses or direct government payments (subsidies) on other commodities; thru "price-

fixing" by marketing agreements on other. Government also will decide the share to go to each eligible farmer.

Thereupon consumers will be allowed to buy food at low prices, because Government already has paid that part of the national grocery bill covered by the amounts paid producers thru direct purchases (for sales at losses), and payments made to producers.

The arguments for the Brannan Plan are plausible, but illusory. It will promote bountiful production, it is claimed, because cheap prices for food will stimulate buying. But then, Government to protect itself against too-large subsidies, will have to control firmly production by farmers so there will not be huge surpluses. And those controls are in the program, too. So far as farmers are concerned, the controls are the fine print in the contract.

When the Brannan program was first announced, I advised farmers to look it over before approving or rejecting it. After looking it over more intensively myself, my advice now is in line with that of the American Farm Bureau Federation—have none of it.

Dairy Month

I AM a strong believer in the value of dairy products. So I am glad to call attention to the fact that next month—June—will be dairy month. If there is an industry more worthy of having a week set aside to consider its accomplishments, I don't know what it is. If there are any food products that mean more to the health of our people, I don't know what they are. The National Dairy Council points out that "housewives spend more than 15 per cent of their food budgets for dairy foods. And in turn they get nearly 30 per cent of the food consumed annually in this country." That certainly is a strong recommendation for dairy products.

But the dairy folks aren't going to stop at that. They are going right ahead telling people all over the country how important milk and other dairy products are to their health and well-being. By the way, this will be the thirteenth year that 11 organizations representing the dairy-foods business have sponsored June Dairy Month.

This group is backing a drive next month to increase the sale of milk, butter, cheese and ice cream; to promote the economy appeal in dairy foods; to hold present markets for dairy foods; and to promote and expand good will for the dairy industry.

To realize these objectives the committee has enlisted the co-operation of newspapers, magazines and radio. Thousands of words will be printed and broadcast during the month telling the facts about dairy foods. Advertisements also will stress the fact that milk and its products are vital to the physical well-being of America's 147 million people, and will aim directly at creating a desire for the product at every

meal. It is anticipated that some 1,500 dairy queen contests will be held thruout the United States. Railroads, grocery stores, restaurants and other kinds of business organizations will play up dairy month.

All of this helps. Last year store managers reported as much as 24 per cent increase in sales due to the stimulation which dairy foods received during June Dairy Month.

Now, Kansas will profit by all of this good dairy publicity. We will profit in proportion to our dairy production and its quality.

With all this information about June Dairy Month reaching me, I naturally looked to see how Kansas is coming along as a dairy state. I find many good points. I find the quality of milk in this state is constantly improving. This is due to the fact that dairymen and farmers milking cows have better animals, they feed better rations, milk gets better attention so it will reach milk stations in good condition. Dairymen, the College of Agriculture and the Board of Agriculture's Dairy Department get credit for these improvements. And the dairy department is carrying on a constant campaign to make sure that quality milk delivered at various market points is given quality care. There is much yet to be done by way of delivering the highest-quality dairy products to consumers, but that goal is constantly in mind I am sure, and further improvement will be made.

Checking up on milk production and number of cows being milked shows a considerable drop for Kansas. Total milk production on Kansas farms during 1948, for example, was estimated at 2,696,000,000 pounds. That sounds like a lot, and it is. But it is 5 per cent less than in 1947, and 10 per cent less than the 10-year average, 1937-46. Also, it is the lowest since 1925. The average number of milk cows on Kansas farms during 1948 was placed at 599,000 head compared with 635,000 during 1947. But here is a point that cannot be overlooked. Milk production to the cow was estimated at 4,500 pounds last year, 1 per cent above the 1947 average, and the highest on record. Apparently dairy herds have been pretty well culled, and only the higher producers have been retained. That is a step in the right direction, of course.

I hope Kansas will turn the tables and again increase the number of dairy cows. It seems to me that is one of the best ways to balance farm production. Good authorities say we could easily handle twice as many dairy cows as we now have. Back in 1934 we did have 892,000 compared to our present 599,000. And back in 1933 we produced 3,456,000,000 pounds of milk compared to last year's 2,696,000,000 pounds. If Kansas did it once we can do it again, no doubt to the advantage of all concerned. More dairy cows will help build up more farms, find a good market for more feed, put more money in bank accounts, and provide a real health food for more people.

Arthur Capper
Topcka.

Labor Has Made Substantial Gains

By CLIF STRATTON
Kansas Farmer's National Affairs Editor

LABOR Government for the United States in 1951 looks to be the goal of the Truman Administration and Labor leadership—and it may be attainable.

How close the country came to having the 3 branches of the Federal Government dominated by Labor is indicated pretty clearly by the voting in the House on the substitution of the Wood (Ga.) bill for the Administration Lesinski, (Minn.) bill to repeal the Taft-Hartley Act.

Labor domination of the White

House and the Supreme Court is generally recognized in Washington, altho occasionally President Truman asserts that in an emergency affecting the national interest, the Executive still is paramount.

A comparison of the House votes on 2 measures shows the gains Labor made in the 1948 elections.

In the Eightieth (Republican) Con-

gress, there were 83 votes in the interest of Labor, to sustain President Truman's veto of the Taft-Hartley Act, whose leaders called it the "Slave Labor" bill.

In the Eighty-first (Democrat) Congress, the vote against the Wood bill (re-enacting most of the major provisions of Taft-Hartley) was 203—a gain of 120 votes for Labor, and within 15

of the constitutional majority of the House.

Kansas is one of 8 states which cast no votes to sustain the veto in 1948, and none against the Wood bill in 1949; all 6 House members voted to override the veto and to substitute the Wood bill for the Administration measure to repeal Taft-Hartley. The other 7 states which did likewise are: Delaware, Maine, Mississippi, New Hampshire, South Dakota, Vermont, Wyoming.

(Continued on Page 33)

A Lesson in Logic

Quality Products + Merchandising = Sales

So reads the principal underlying the entire program of the Kansas and American Dairy Associations. Organizations representing you, and other dairymen throughout America.

June Is Dairy Month

A time when,

ONE CENT + MANY DAIRYMEN = DOLLARS

to carry out a full year of dairy merchandising. The one cent you are being asked to invest for each pound of butterfat sold during the month will be placed with like amounts from dairy farmers all over America.

A Security Investment

with the Kansas and American Dairy Associations during June is fundamental for continued dairy prosperity. Their 12 month program of national advertising, extensive research and broad promotion of the dairy industry has been a major factor in the ever increasing demand for dairy foods.

In June, your milk and cream buyer will assist you in making this investment in your dairy farm. Help maintain—

DAIRY FOODS
Number One on the
FOOD PARADE

Kansas State Dairy Association
State Capitol, Topeka

Launch Artificial Breeding Plan Soon

*Dairy Experts Answer Your Questions
on the New Kansas Program*

NOW that a state-wide artificial breeding program is assured for Kansas, thousands of farmers are asking questions about the proposed service. To give readers of Kansas Farmer an accurate report, we have gone over the entire program with the heads of the dairy husbandry department and dairy Extension service.

Here are the questions farmers are asking, with the answers as given by Prof. F. W. Atkeson, head of the dairy husbandry department, and Jim Linn, Extension dairy specialist, of Kansas State College. These 2 men will head the artificial-breeding program in Kansas.

How much money is available to start the artificial-breeding program?

A total of \$60,000 was appropriated by the legislature for the first 2 years. Of this amount, \$56,500 will become available July 1, this year, \$3,500 on July 1, 1950. It is hoped the central station will be self-supporting after 2 years.

Will all the bulls be kept at Manhattan, or will there be branch stations over the state?

All bulls will be kept at Manhattan as a central station has proved most successful. The larger bull station can be operated at less expense for overhead involved in buildings and equipment. The collection, dilution, storage, and packaging of semen can be more carefully supervised under direction of one well-trained person, and better bulls can be purchased under a central-station plan.

How long will it be before the college is ready to start shipping semen?

Date for first shipment of semen is set at 9 months after July 1, 1949, which would put the date at March 1, next year. Semen of one or 2 breeds may be ready for shipment before March 1, however.

Why will it take so long to get started?

Altho some things can be done now, the major jobs of setting up the central station cannot start until money is on hand, which will be after July 1, 1949.

What will be done with the first year's appropriation?

Money this year will be used to build quarters for the bulls, to pur-

chase exercisers, fencing, build a laboratory building and purchase equipment, supplies for shipping semen, and for purchase of bulls.

Will all breeds of dairy cattle be included among the bulls purchased this year?

Plans are being made to have bulls of the Holstein, Jersey, Guernsey, Ayrshire and Milking Shorthorn breeds. Later, if there is enough demand, Brown Swiss bulls will be added.

How many bulls of each breed will be needed?

An average of 4 bulls for each breed, altho more than 4 may be used for the more popular breeds.

How many cows can be bred from a single service by one bull?

Best quality semen is being diluted to a point where a single sample of semen from one bull is ample to inseminate more than 500 cows.

How soon must semen be used?

Semen can be stored successfully up to 4 days, but is not generally used after the third day. Shipments will be made to inseminators at least every other day. Best results are obtained where cows are bred about 8 to 10 hours after coming in heat. They may be inseminated any time after being observed in heat up to 6 hours after they are out of heat. As a general practice, cows observed in heat before noon will be inseminated that same day. Cows coming into heat in the afternoon will be bred the next morning.

What standards will be used in selecting bulls for use at the central station?

These standards have not been determined, but bulls selected must meet definite specifications that will be set up based on actual performance of the bulls or their ancestors, using sound genetic principles. These standards will be set up before any bulls are purchased. Bulls will not be selected on popular bloodlines only.

Will all bulls used be proved bulls?

No. Two problems are involved here. Proved bulls are not plentiful and because of their age may have only limited service and may not be successful in settling the cows. Some compromise will be needed to insure settling of cows and getting the best

(Continued on Page 10)

All-Fertile Hatching Eggs

A PRE-INCUBATION technique discovered by scientists of the U. S. Department of Agriculture makes it possible for poultry breeders to sort out infertile eggs before they are shipped.

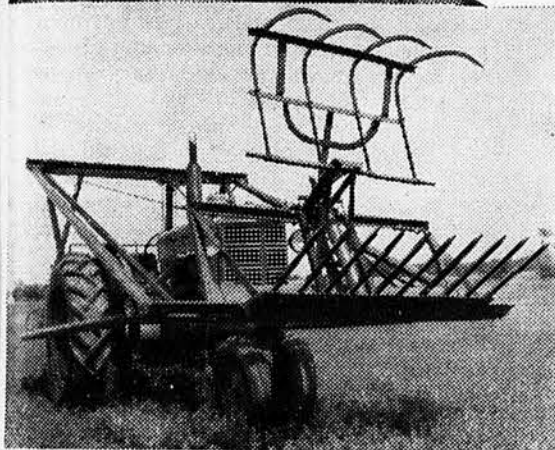
The method is simple. Eggs coming from the breeding pens are "pre-incubated" for 16 to 18 hours at 100 degrees. They then are taken out and cooled to about 50 degrees. By candling at this stage, it is possible to sort them. The embryos of fertile eggs will have made just enough development to show.

Fertile eggs can then be packed for shipment with no transportation costs for infertile eggs. Incubation is resumed and carried to a finish when eggs reach the hatchery.



"You'll want 'em too... FARMHAND'S new time-and-money saving tools for haying and earth moving!"

More new FARMHAND attachments to make this great hydraulic loader more efficient, more useful... truly the finest all-purpose, all-season working implement on the farm.



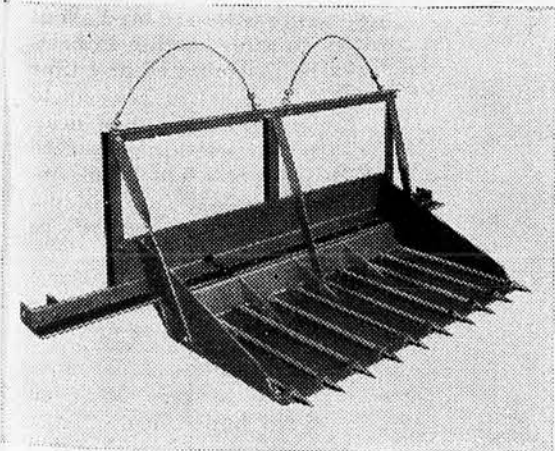
1. THE NEW FARMHAND GRAPPLE FORK that not only lifts big loads, but *picks them up* with hydraulic claw action. Handles perfectly with simple, positive hydraulic control when attached to your FARMHAND Manure Fork. Grapples huge "bites" of hay or shocks, hoists stacks of bales... and clamps down with steel teeth to steady and secure the load while you move it.



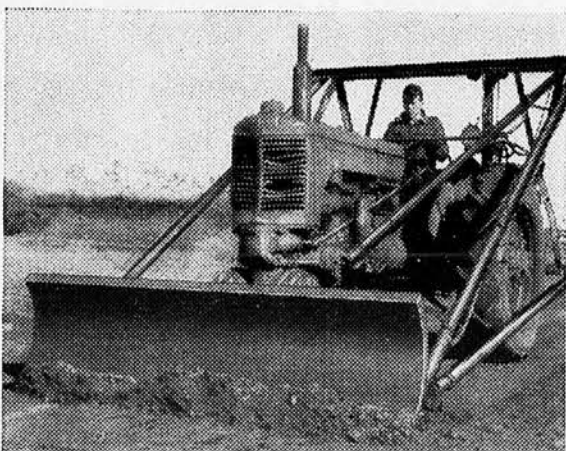
2. WATCH IT WORK! The new FARMHAND Grapple Fork, tested and proved on the farm, adds new money and labor saving efficiency to your FARMHAND Loader. Operates from same auxiliary hydraulic lines and control used for the FARMHAND Hay Push-Off Attachment. Grasps loads from side or top with action like the human hand. A natural for haying: stops blowing, speeds work.



3. CHAMPION STACK BUILDER is this famous FARMHAND Hay Basket with hydraulic Push-Off Attachment that adds six extra feet to the FARMHAND Loader's reach to stack your hay up to 27 feet high! Push-Off folds flat to allow full half-ton basket capacity while you sweep up hay from windrows and carry it to stack... then hydraulic power moves hay up and over basket tines to top of stack.



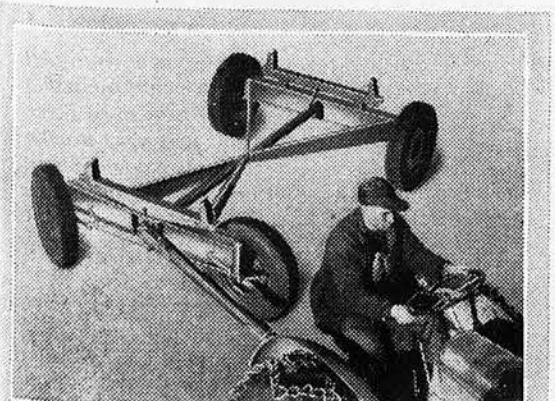
4. THIS NEW EARTH SCOOP joins the line of specialized attachments that fit on your FARMHAND Manure Fork for lifting and hauling of dirt, sand, coal and other loose materials. Already popular for road repair and construction work is the FARMHAND Sand and Gravel Plate used with the Manure Fork on earth moving jobs. You'll find one of these heavy-duty earth moving attachments ideal for your farm!



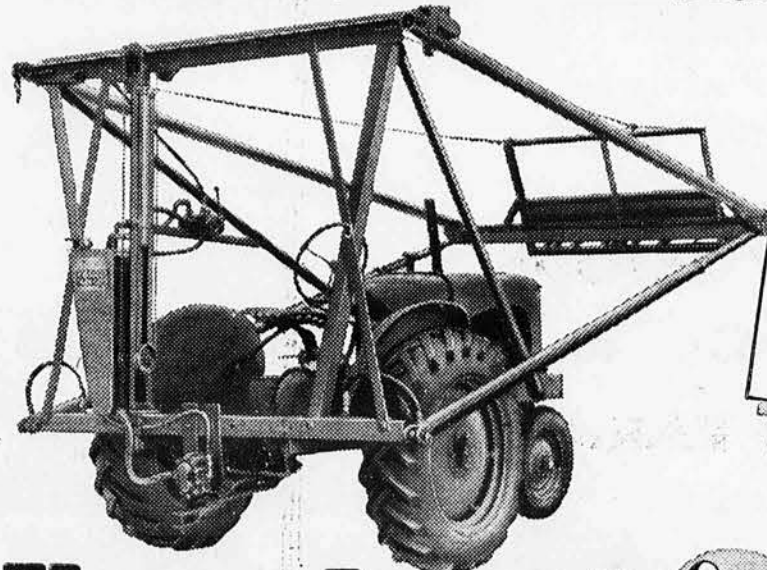
5... AND THIS NEW BULLDOZER BLADE makes it easy for FARMHAND owners to tackle big-scale ground leveling and clearing work. Mounted on your FARMHAND Loader it butts through earth and sand, rips out roots and tangled growth, moves tons of dirt or fill where you need it. Use it for terracing eroded soil, patching gullies, improving roads... it's one of the most useful attachments you can own!



6. COMING SOON... a totally new and different FARMHAND machine that will revolutionize moving and hauling work around the farm. This new device, plus your FARMHAND Loader and "90" Wagon, will give you one-man operation with remarkable saving of time and money on literally scores of the toughest jobs you have to do. Look for the special ad announcing this great new FARMHAND development.



THE WAGON BUY OF A LIFETIME... that's what farmers are calling this great FARMHAND "90" Wagon with its great new features... full 90° turn under full load without tipping or backing... Quick-Hitch Extensible Tongue for extra fast coupling to tractor... and (above) extra wide construction, a full 72 inches, for rock-solid stability under heaviest loads, for following track of row crop tractor, and for easy pulling in the field. See it today at your FARMHAND Dealer's!



Need these new attachments for YOUR FARMHAND Loader?

Write today for facts about the new FARMHAND Grapple Fork, Bulldozer Blade and Earth Scoop... then see your FARMHAND Dealer about early delivery. Limited numbers available!

Farmhand

designed by a farmer, built for farmers by

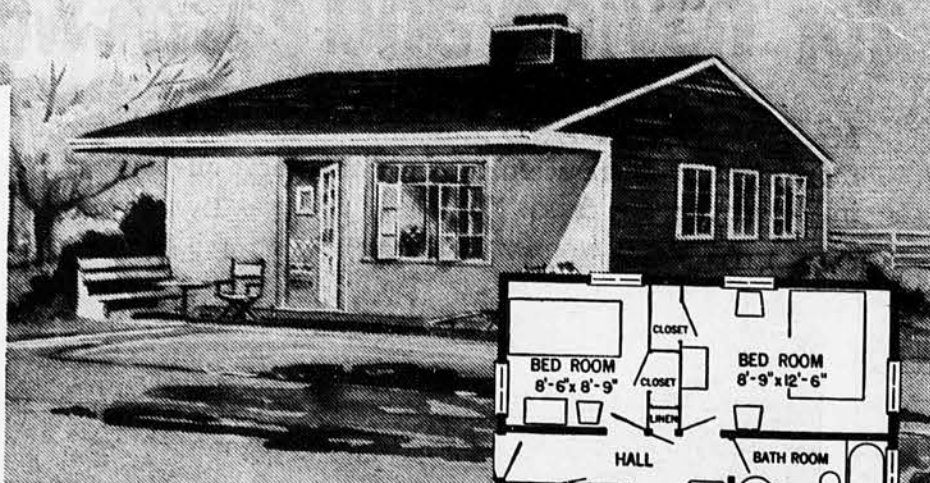


HYDRAULIC LOADER

SUPERIOR SEPARATOR COMPANY • HOPKINS, MINNESOTA • Farm Machinery Specialists

Farm Service Bulletin

1 IDEAL FARM HOME— developed by USDA-State plan service now offered for young couples or tenants through most State College extension engineers. (See complete floor plan of this modern farmhouse at right.) Other plans are obtainable from Supt. of Documents, Wash. 25, D. C. for 15¢. Ask for M.P. 658.



2 REMOVE AND PREVENT RUST— Clean rust from farm equipment with Cities Service Rust Remover; fast, easy, action. Prevent future rust with Cities Service Anti-Corrode. Dip or brush applied. Get both from Cities Service Farm representative.



3 HOME CANNING NEWS— Important to the 20,000,000 homemakers who can at home are experiments in USDA providing directions that combine safe methods with good products.



Free

BIG NEW FARM BOOK—Packed full of helpful farm ideas. Send for your copy today. Cities Service Oil Co., 919 Michigan Ave., Chicago, Ill.

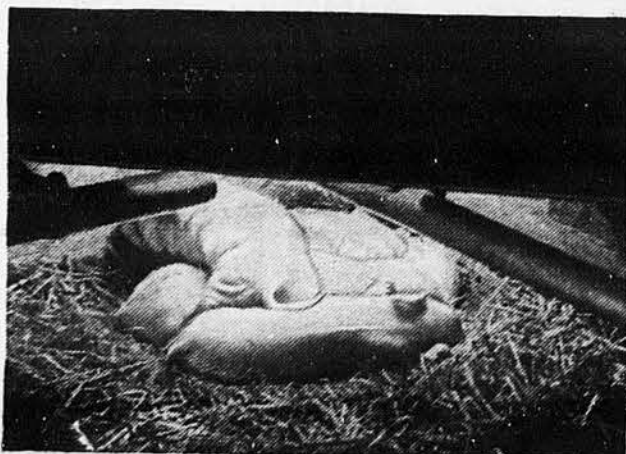
CITIES

SERVICE

QUALITY PETROLEUM PRODUCTS

Accessories for the farm

4 ELECTRIC BROODERS FOR FALL PIGS—Many young pigs can be saved from chilling during cool weather. Infrared lamps of hard-glass type are best for heat, say USDA engineers.



5 MORE POWER FOR FARM ENGINES with this great Cities Service Trojan Motor Oil, fortified to keep engine free of power-robbing formations. Buy from your Cities Service Farm representative.

Ideas for Feeders

HERE are highlights from the 33th Annual Livestock Feeders Day, Manhattan. The report covers major animal husbandry research work done at Kansas State College during 1948-49. More than 3,000 persons attended the feeders day program.

1. Effects of feeding cottonseed cake to steers on bluestem grass: Two lots of fleshy 2-year-old steers made identical gains when grazed together from May 1 to July 15. They were then sorted and one lot was fed 3 pounds of cake a head daily and the other grazed without supplemental feed. The lot fed cake gained only 0.14 of a pound more a day but on October 15 were appraised \$2 a hundred higher. After full feeding 65 days, the steers that had been caked sold for 50 cents a hundred more and their carcasses graded almost a full grade higher tho they had made no more gain than those not fed cake. In 1947, yearling steers fed cake on grass at the rate of 1.47 pounds a day gained almost $\frac{3}{4}$ of a pound extra for each pound of cake.

2. Full feeding on bluestem grass: Full feeding heifers in the dry lot after July 15 in 1948 did not show as much advantage over feeding on pasture as in 1947. The dry lot fed heifers both years were fatter, sold for a higher price and graded higher. Full feeding grain on grass from October 12 to December 11 did not give satisfactory gains on 2-year-old steers or yearling heifers. Two-year-old steers full fed on grass October 12 to December 11 gained only a pound a day, compared to an expected gain of at least 2 pounds daily for steers fed the same ration in dry lot.

Oilseed Meals Ahead

3. Cottonseed, soybean, and linseed meals versus dehydrated alfalfa and brome grass pellets for beef cattle: Dehydrated alfalfa and brome grass pellets containing 15 to 20 per cent protein and fed at the rate of $1\frac{3}{4}$ pounds a head daily as protein concentrates in the wintering ration, produced 0.17 pound less gain a head daily than the oilseed meals. Tests indicate 2 pounds of the dehydrated alfalfa and brome grass pellets, depending on protein content, are needed to equal one pound of the oilseed meals.

4. Full feeding on brome grass pasture compared to dry lot: Dry lot feeding was more profitable in 1948 than feeding on brome grass pasture. Two lots of heifers wintered the same, pastured and then full fed the following winter were used. Dry lot fed heifers consumed 1.4 bushels more grain; gained almost $\frac{1}{2}$ pound more a day; sold for \$2 more a hundred; graded higher in carcass, and returned \$17 more profit a head.

5. Effect of the protein content of bluestem grass on cattle gains: Thin or young cattle respond earlier and more to feeding of a protein supplement when the protein content of grass gets low than do 2-year-old steers. Preliminary results indicates there is a correlation between the protein content of bluestem grass and cattle gains as the grazing season progresses.

6. Differences in feeder calves that affect rate of gain, kind and amount of feed consumed, and carcass grade:

(Continued on Page 9)



"I got myself your birthday present to me, dear, and you really shouldn't have been so extravagant!"

Two lots of feeder calves grading good to choice were used. The lot picked for more efficient beef production because of difference in body features of the individuals showed the following advantages—an average gain of 49 pounds more a head during the fattening period; consumption of 29 pounds less of concentrates and 264 pounds more of silage; their carcasses graded higher on the average.

7. Effects on cattle gains as a result of burning bluestem pastures: Yearling steers grazing on pastures with a heavy growth of old grass made practically the same gains as those grazed on burned pasture. Starting in 1950, tests will be continued, using 3 pastures—one burned early; one burned late, and one not burned. Effects on vegetations as well as cattle gains will be studied.

8. Effect of grinding on the nutritive value of grain sorghums for beef cattle: Finely ground milo grain was more digestible than whole milo or coarsely ground milo. Steers receiving finely ground milo grain were fatter at close of the trial and were appraised at \$1 a hundred higher.

9. Factors influencing salt requirements of beef cattle: Steer calves wintered on bluestem grass and fed 1½ pounds a day of soybean pellets with free access to salt gained 50 pounds a head from December 18, 1948, to April 18, 1949. Another lot without access to salt lost 7 pounds a head during the same period. Calves fed silage as the principal roughage in a wintering ration consumed 5 times more salt than calves full fed corn.

Need Plenty of Salt

10. A salt-cottonseed meal mixture self-fed as a protein supplement: Self-feeding 2-year-old steers on bluestem grass from July 15 to October 15 with a mixture consisting of 30 pounds salt to 100 pounds cottonseed meal was not profitable. The possible salt consumption per steer may be a valuable guide in determining the proportion of salt to cottonseed meal in the mixture to secure a desired daily protein consumption. The work indicates that cattle will consume 1 pound or more salt per head daily on green pasture and less than 1 pound on dry winter feed.

11. Bluestem grass as a winter feed for yearling steers: Six pounds of alfalfa hay, 1½ pounds soybean pellets daily, and 3 pounds of soybean pellets fed every second day just about maintained the initial weight on yearling steers wintered on bluestem grass. Similar steers the previous winter made a net gain of 66 pounds. Another lot of steers was self-fed a mixture of salt and cottonseed meal. They ate 2.83 pounds cottonseed meal and 0.89 pounds salt daily and gained 31 pounds from December 1, 1948, to April 1, 1949.

12. A comparison of the net return from calves and yearlings: Steer calves were wintered on a full-feed of silage and 1 pound cottonseed meal during 1946-47. Each ton of silage fed produced 67 pounds of gain. The next winter as yearlings, the same steers gained only 40 pounds for each ton of silage fed. Steer calves made greater returns for feed, or 56 per cent more profit when fed out as yearlings after the

first summer's grazing, than when carried 2 years and fed out as 2-year-olds.

13. Feeding a limited amount of grain in the wintering ration of heifer calves: Heifers fed about 2½ pounds of corn daily in their wintering ration gained ¼ pound more per head daily than heifers fed no grain. They maintained 50 to 75 per cent of this gain advantage thru the grazing and full feeding phases, and graded higher. It is apparent that some grain should be included in the wintering ration of heifers that are to be grazed about 100 days without grain and then short-fed for early fall market in a modified deferred feeding program.

14. Immature sorghum grain fattens lambs: Westland milo grain which fails to mature because of either frost or drouth has a value ranging from 85 to 105 per cent that of mature Westland grain for fattening lambs. If the fiber content does not become excessive, it is possible for immature grain to have higher nutritive value than mature grain. Since its market value is lower, it is better to feed it than to feed mature grain. Axtell and Westland grain were similar in value.

15. Kansas-produced molasses saves grain and money in lamb feeding rations: When beet molasses can be stored on the farm at a price per pound comparable to that of common feed grains, it can be substituted for as much as one half the grain for fattening rations of lambs at less feed cost for gains. If you do not have mixing equipment, molasses can be poured in the bottom of the trough and dry feeds placed on top of it. Feeding more than one-half ration of molasses is apt to result in scouring.

16. Mixtures of mustard seed oil meal and tankage versus tankage as protein supplements to shelled corn for pigs on pasture: Mustard seed oil meal, a supplement containing 27 per cent protein, when fed with tankage in amounts ranging from 10 to 50 per cent of the total, was an excellent protein supplement for fattening pigs on alfalfa pasture. Mustard seed oil meal loses its effectiveness when it exceeds 50 per cent of the supplemental mixture.

17. Limited feeding of tankage to pigs being self-fed shelled corn on alfalfa pasture: Pigs gained efficiently on a full-feed of corn on alfalfa pasture without protein supplement after they weighed 100 pounds, but daily gains were reduced. Results indicated that if maximum gains are desired, despite higher costs, the protein supplement should be full-fed at least until hogs weigh 150 pounds.

Big Dairy Shows

The 1949 official National Holstein Show will be held October 3 thru 9, in conjunction with the National Dairy Cattle Congress, at Waterloo, Ia.

In addition to the National Holstein show, the 1949 official National Guernsey and Junior Guernsey shows and the National Brown Swiss show will be held at Waterloo. The Ayrshire Breeders Association will hold its Regional Show in conjunction with the National Dairy Cattle Congress, and the Jersey and Milking Shorthorn breeds will be represented on a nation-wide basis.

Please Be Careful

AN ELDERLY farmer fell through a hayrack, while it was in motion, and suffered internal injuries, which caused his death a few days later.

Burns, suffered when a brooder-house stove exploded, proved fatal, 12 hours later, to a Kansas farm woman.

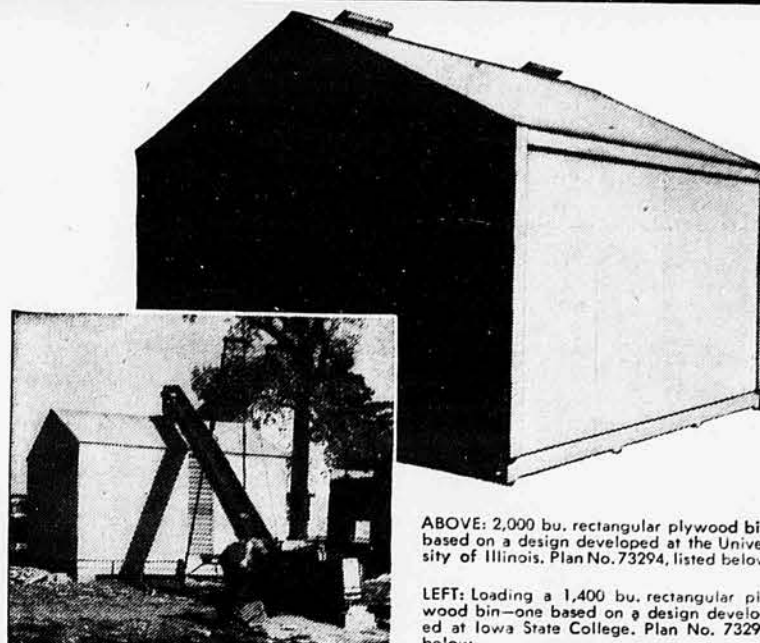
While riding a tractor, pulling a plow, a young farmer drove into a ditch. In attempting to pull out, the front wheels rose and turned the tractor over backward, crushing the farmer between the tractor and plow.

Tractors are indispensable—and when correctly operated—are safe. A good safety rule is never to drive a tractor on the edge of an embankment, or up or down a steep slope. Also, never allow a child to ride as a passenger on a tractor. Several Kansas children have been killed that way.

Two teen-age farm boys were using dynamite to free a small stream of brush and rubbish. They were sitting in a parked car and as one youth handed his companion a stick of dynamite, it exploded, killing one boy and critically injuring the other one. A half box of the dynamite, in the trunk of the car, did not explode.

—The Kansas State Board of Health.

Solve Your Grain Storage Problems NOW...FASTER... with an easy-to-build bin of EXTERIOR-TYPE DOUGLAS FIR PLYWOOD



ABOVE: 2,000 bu. rectangular plywood bin, based on a design developed at the University of Illinois. Plan No. 73294, listed below.

LEFT: Loading a 1,400 bu. rectangular plywood bin—one based on a design developed at Iowa State College. Plan No. 73296, below.

- ✓ Plywood Bins are tight, economical, permanent!
- ✓ Plywood bins resist damage from heat, moisture, insects!
- ✓ Plywood bins prevent loss in quality—and quantity!
- ✓ Plywood bins keep out objectionable odors and materials!
- ✓ Plywood bins make it easy to move, inspect and store grain!



—AND BEST OF ALL—
PLYWOOD MAKES
BUILDING EASIER,
FASTER

Exterior-type Douglas fir plywood is real wood, cross-laminated with a completely waterproof bond into large, light, rigid panels—easy to handle, easy to "work."

PLYWOOD GRAIN BIN PLANS FOR YOU!

Available from: Douglas Fir Plywood Association, Tacoma 2, Wash., or—848 Daily News Bldg., Chicago 6.

1,000 bu. round bin. Kansas State College design. 14' diameter, 8' high. Exterior plywood walls and roof, concrete slab floor. Site construction, using glue. Plan free.

400 bu. movable square bin; several can be grouped. University of California design. 8'x8' and 8' high. Exterior plywood walls, roof, floor; lumber frame. Suitable for either prefabrication or site construction. Plan free.

Available from: Midwest Plan Service, Iowa State College, Ames, Iowa. Or from state colleges of agriculture in Arkansas, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, Wisconsin.

2,000 bu. rectangular bin. Designed for prefabrication. 16'x20' and 8' high. Panelized construction permits variety of sizes and capacities up to 3,600 bu. Could be converted to other uses or dismantled. Exterior plywood walls, roof, floor; lumber frame. Plan No. 73294. 45 cents.

1,400 bu. rectangular bin. 12'x16' and 8' high. Other sizes and capacities possible from plan. Bin convertible to other uses. Exterior plywood walls, roof, floor; lumber frame. Site construction. Plan No. 73296. 15 cents.

400 bu. movable hog feeder. Double-purpose storage-hopper. Self-feeding, sloping floor. 8'x12' and 7' studs. Exterior plywood walls, roof, floor. Plan No. 77614. 15 cents.

300 bu. movable hog feed. Double-purpose; provides small storage and sheltered feeder. 10'x16' with protected feeding floor. Exterior plywood floor, bins, partitions and roof. Plan No. 77613. 15 cents.

Double-farrowing house, convertible to 300 bu. grain bin; 8'x12', off-center gable roof. Movable. Exterior plywood sides, floor and roof. Plan No. 72626. 15 cents.

EXTERIOR-TYPE Douglas fir plywood—bonded with completely waterproof adhesive especially for permanent outdoor use—can solve your urgent grain storage problem . . . do it faster and better.

Large, light, rigid plywood panels give tighter construction, to keep moisture out, prevent leakage, prevent spoilage, and make fumigation easier. Tight, smooth plywood walls keep out insects and foreign matter, resist rats and mice. Plywood is real wood, with excellent insulation properties. Plywood bins are strong, durable. Some can be converted to other farm uses later; some are demountable for moving to other locations.

You'll build a better, tighter grain bin with Exterior plywood—and get it up faster. See your lumber dealer NOW.

Use only EXTERIOR-TYPE Douglas fir plywood for grain bins or other outside uses. Positive identification of Exterior plywood is easy; just look for the EXT-DFPA "grade-trademark" on the edge of every panel.

EXT-DFPA

Exterior-Type Douglas Fir PLYWOOD

—for all farm uses!

See Your Nearest
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BIGGEST OF FARM QUART PROTECTION YET!



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"Anti-Acid"? YES!
"Detergent"? YES!
"High V.I."? YES!

*High Viscosity Index — means high resistance to change in body under extremes of heat and cold.

1 **Free-Flowing**—Here's fast engine turnover—instant flow of lubricant to all moving parts.

New Mobiloil's high V. I. and rich lubricating qualities result from years of research by Socony-Vacuum.

2 **Full Protection**—Choice stocks and "built-in" cleaning properties mean unsurpassed protection against friction, wear, deposits.

3 **Maximum Economy**—Special processes remove undesirable elements—put in effective agents that retard corrosion, reduce "inside" troubles. Result: Money savings in terms of fewer repairs, greater operating economy. Get New Mobiloil for all farm engines.



Call in Your Mobilgas-Mobiloil Man!
 SOCONY-VACUUM OIL COMPANY, INC.

WORLD'S LARGEST SELLER

BETTER THAN EVER!

Launch Breeding Plan Soon

(Continued from Page 6)

quality of bulls obtainable. This will mean some will be proved and some won't. All will be better than the average breeder could afford to buy.

How will the college go about picking unproved bulls?

Younger bulls will be picked from outstanding herds and must meet agreed-upon qualifications. The college probably will contract with breeder owners of these young bulls to use the bulls on a 6-month trial basis. The college will attempt to get 20 tested daughters from such bulls, and will closely check the offspring of all dams serviced from such young bulls as to type and production. In this way, the college will help breeders prove new bulls.

Will breeders have any say in selection of bulls for the central station?

Yes. Each dairy breed association will be asked to select 3 men to act as an advisory bull-selection committee for that breed. In other words, Holstein breeders will help select Holstein bulls, Jersey breeders will help select Jersey bulls.

What other chance will dairymen have to work with the college on problems coming up in the over-all artificial-breeding program?

Each organized artificial-breeding association in Kansas will be asked to select one man to serve on a statewide advisory policy committee. This state committee will work with the college on general policies, keep a close watch on activities at the central station and report back to local associations.

Just what relation will the central station have to the dairymen of Kansas?

The college will own the bulls and will act as a service and educational agency for dairymen. The semen will be sold on a contract basis, either to a local breeding association, or to individual inseminators where there are not enough cows to form an association. The college also will train inseminators, help associations find inseminators, and approve inseminators for artificial-breeding work. At least 2 fieldmen will be hired by the college to help local groups with organization and service problems.

Do all inseminators have to be approved by the college?

They do if they inseminate purebred cattle. They need not be approved by the college if they inseminate only grade cattle. If inseminating purebred cattle, an inseminator must be approved by the college regardless of where semen is obtained.

(Continued on Page 11)

Rural Youth Guide

"The Church and 4-H Clubs," by T. A. (Dad) Erickson, is the title of a booklet that is of much interest and help to youth leaders, because of the increasing co-operation between the rural church and 4-H Club work. If you haven't received a copy of this booklet, please address Farm Service Editor, Kansas Farmer, Topeka. It is free.

Who at the college will approve inseminators?

Jim Linn, Extension dairy specialist, is designated as official approver, but may appoint someone else from the Extension staff.

Does the college hire the inseminators?

No. The local breeding associations will hire and fire inseminators.

Once a contract is signed to buy semen at the college, is there any way to get out of the contract?

You can quit anytime you wish and contract for semen with some other state. There is nothing compulsory about the service.

What is a fair conception rate we can expect from artificial breeding?

The average nationally is as good as for natural breeding. The conception rate should run from 60 to 65 per cent for the first service.

Will the artificial-breeding program hurt the purebred breeders of Kansas?

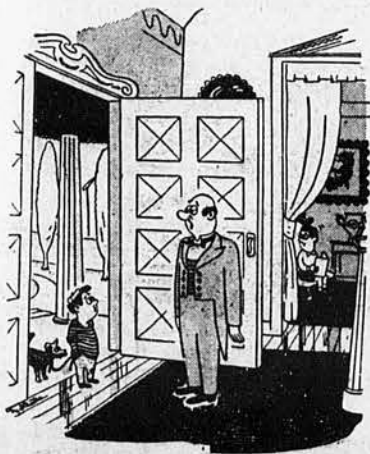
No. The service is primarily to help small breeders who can't afford to buy and keep a bull. More than two thirds of Kansas dairy cows are in herds of 10 cows or less. Artificial breeding is about the only way these cattle can be improved and benefits will be state-wide. The service also is primarily for grade-cattle owners, altho small purebred breeders may profit. Kansas has some of the outstanding purebred breeders in the nation. Their breeding knowledge will remain the dominant factor in improvement of purebred herds and larger grade herds.

Why hasn't a state-wide artificial-breeding program been started in Kansas before this?

College officials thought pioneer work in this field could best be done in those states having a dense dairy-cattle population. They wanted to see the program proved first and to wait for sufficient demand for the service to grow in Kansas. An attempt was made to start 2 years ago but the legislature did not make the needed appropriation.

Now that we do have a program, what can we do locally along the lines of organization until such time as the college is ready to ship semen?

All you should try to do in the next few months is to enroll cows for a local artificial-breeding association. It takes 1,200 to 1,500 cows within a 15-mile radius of an inseminator to operate a successful ring.



"Sorry, sir, I didn't understand whom you wished to see. We of the staff do not generally refer to Master Gerald as 'Noodlehead'."

After enough cows are enrolled, you can call a county meeting to elect officers and sign a contract with the college.

Should we try to set up a constitution and by-laws now?

No. One of the great needs for a successful state-wide program is to have all local associations organized on a uniform basis. Before too long the college will be able to supply you with an outlined formula for organization. This will include a standard constitution and by-laws, financing plans, and a standard contract for use in hiring inseminators. You can save yourselves a lot of trouble by waiting until this information is available. It will be distributed to the county agents when prepared.

Has the college set a price yet for semen?

Yes. The college will charge \$3 for semen for each cow. This will include enough semen for 3 services, if needed.

What other costs will there be to the dairyman?

Experience of other breeding associations has proved that at least \$4 for each cow serviced is needed to cover local costs of operation. Such costs include salary of inseminator, travel expense, and supplies.

If I can't get into a local association, can I still get my cows bred and will it cost me more?

You should begin making arrangements now with your local veterinarian to act as your inseminator when semen is available. The college will sell semen to your veterinarian at the same price of \$3 a head and your other cost will be whatever arrangement you make with the veterinarian for his services.

How many cows in the United States are enrolled now in artificial-breeding associations?

Nearly 2½ million cows. Artificial breeding has grown from 7,539 cows enrolled in 1939 to 2,412,160 cows enrolled in 1949.

How does Kansas stand at this time?

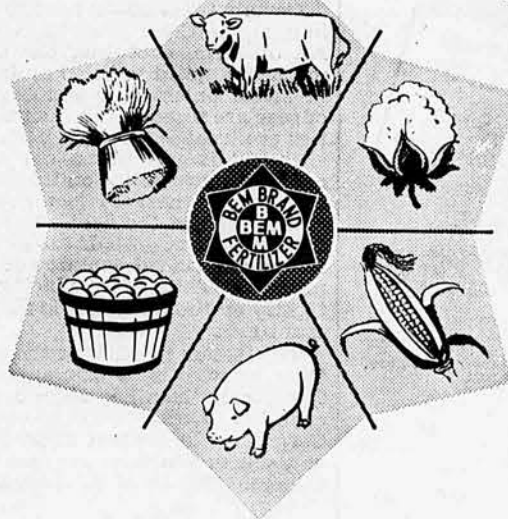
Hobby—Growing Herbs

Why not try as an interesting hobby, the growing and using of herbs? Savory herbs are grown because they make possible a variety of appetizing dishes. And, there is a lot of enjoyment in growing herbs and using them skillfully. An authentic pamphlet on this subject may be obtained from Farm Service Editor, Kansas Farmer, Topeka. Please ask for the Savory Herb bulletin. Price 10c.

On January 1, 1949, there were 4 artificial-breeding associations operating in Kansas. They are: Arkansas Valley, Brown county, Labette county, and Pittsburg. These 4 associations had 4,714 cows enrolled and 3,036 cows were bred artificially during 1948.

Because of the keen interest among Kansas farmers in the artificial-breeding program for this state, Kansas Farmer will give progress reports as often as possible during the next few months. So, watch these columns for the latest information on the program if you want to keep informed of progress being made.

BY CROPS OR CALENDAR



BEM BRAND Fertilizer 'BRINGS EXTRA MONEY' ON ALL CROPS THE YEAR 'ROUND

BEM BRAND Fertilizer is specifically compounded to restore and improve the fertility of your soil . . . give maximum productivity to growing crops . . . the year 'round. It supplies a well-balanced vital plant food diet for ALL crops in all seasons.

Whether your land calls for Superphosphate or "tailor-made" mixed fertilizers, there's a BEM BRAND to supply your needs. For bigger, better pastures and grains, soybeans, legumes and other crops, see your BEM BRAND Dealer today.

MAKE YOUR FARM PAY WITH HELP FROM AAA

Your P.M.A. program is designed to help you pay for carrying out all approved practices on your farm—but you must first register with your local committee to be eligible for this assistance. Funds are limited, so sign up with your committee today. THEN . . .

1. See your county agent and plan your fertilizer program to fit your soil's needs.
2. Check with your county P.M.A. committee and see how, in many cases, they can pay nearly half your bill for superphosphates when used in carrying out approved soil building practices.



'BRINGS

THURSTON CHEMICAL COMPANY

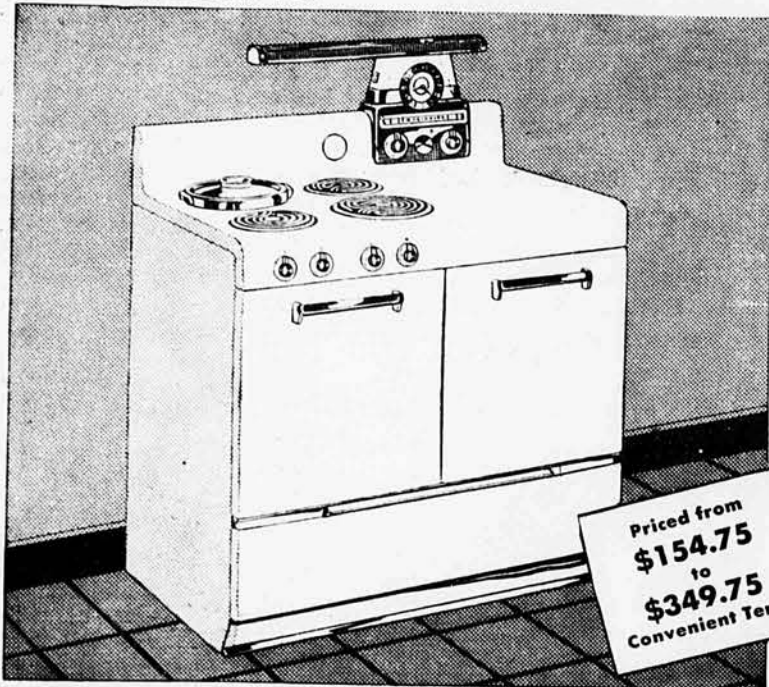
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You'll Find It Pays to Treat Sorghum Seed

SORGHUMS, including kafir, milo, and forage sorghums, respond about the best to seed treatment of any of the crops grown in Kansas, says Claude King, Extension Plant Pathologist, Kansas State College. He says seed treatment is needed especially when the soil is cool during germination of the seed and emergence of the plants. He warns that no one knows when he plants but what the temperature will soon drop and perhaps be down for several days. Tests made by Dr. E. D. Hansing, of Kansas State College, when the soil was rather cold, gave these results with the materials mentioned:

Untreated	3,600 plants
Spergon	7,490 plants
Arasan	7,130 plants
New Improved Ceresan	6,570 plants
Ceresan M	6,480 plants
Copper carbonate	6,090 plants
Dusting sulfur	3,660 plants

In addition to getting a greater and more uniform stand, the seedlings are usually larger and more vigorous following seed treatment. This is of special value when rains cause the soil to cover the plants a little too deep. Treating seed also insures against kernel smut.

Cost Is Low

Cost of treating sorghum seed varies with the product; however, with any of the products the cost is insignificant, varying from 3 to 15 cents a bushel, which in Kansas would figure only from less than 1 cent up to 2.5 cents an acre of row crop, the Ceresans being the least expensive.

Certain precautions need to be taken in applying these products to the seed. All of them, excepting the Ceresans, must be applied with an agitator-type of mixer unless only small quantities of seed are treated. When small quantities are treated, the seed with the dust chemical is put in an old discarded cream can and rolled on the ground, or just before the seed is placed in the planter box at the field, some farmers fill a gallon bucket half full of seed plus the recommended quantity of treating material. Then after placing the lid tightly on the bucket, it is shaken several times.

The test as to whether the mixing is thoro enough is to examine the seed. There must be a fine film of dust over each kernel, except in the case of the Ceresans. The amount of dust to apply is given in the directions on the containers. Ceresan M or New Improved

Ceresan is applied at the rate of only 1/2 ounce per bushel. This is not enough to allow for a film of dust around each seed, but these products give off fumes which collect around each kernel. This is the reason a Ceresan material must be on the seed at least 24 hours before planting, which is not true of the other products mentioned. Too much Ceresan on the seed may injure germination.

One of the Ceresans can be on wheat, oats, or barley for many weeks and not injure germination, but in some cases, sorghum seed may be injured if a Ceresan is on it too long. Therefore, as a general rule, one should treat sorghum seed with a Ceresan only a day or so before he plans to plant. All other products mentioned may be on the seed an indefinite length of time without injury. All kinds of seed treated with Ceresan should be left uncovered in a dry bin; however, being sacked is not objectionable if the air can circulate among the sacks after they are placed in rows.

Much of the irritation to workers from seed treatment materials can be avoided if the treatment process takes place out-of-doors, if the work is done as much as possible on the side of the treater from which the wind is coming, if a dust mask or dry cloth is worn over the face, and if a bath is taken as soon as finished. Ceresan M is less irritating to use than is New Improved Ceresan. Treated seed is poison and should not be used for feed.

Information on making farm-size seed treaters and commercial treaters may be obtained from the Extension Service, Kansas State College, Manhattan, Kan.

New Metal Paint

A paint is now on the market for new galvanized metal surfaces, such as those of Quonset and other steel buildings which heretofore have required weathering or chemical treatment prior to painting.

The paint, trade-marked "Quon-Kote," is especially compounded with a linseed oil base to react chemically with the zinc on new galvanized surfaces to form a tightly-bonded protective coat without a primer. It is made in 5 colors by the Sherwin-Williams Co. for the Great Lakes Steel Corporation, Quonset manufacturer, and is available thru the local suppliers of these structures. The colors, which may be intermixed for various shades, are white, cream, red, green and gray.

Ellis Sorgo A Versatile Crop

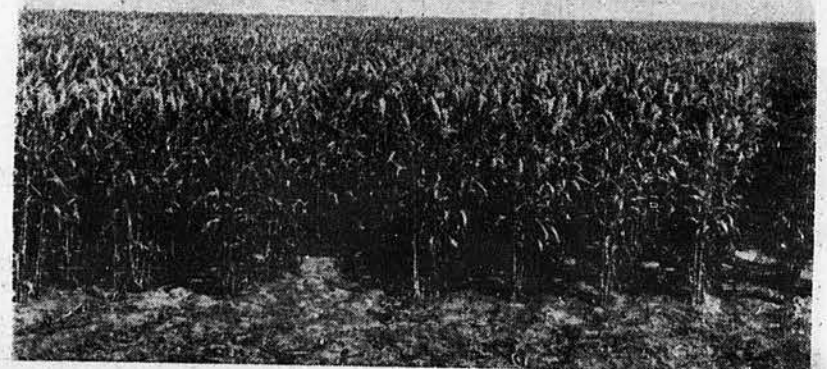
ELLIS sorgo, a recently approved new sweet forage sorghum, is promising as a versatile sorghum, reports L. C. Aicher, superintendent of the Fort Hays Branch Experiment Station.

The new sorghum is a selection from a cross between Leoti Red and Atlas sorgo made by A. F. Swanson at the Hays station. It has a growing season of from 100 to 110 days and the same general adaptation as Leoti, Norkan and Early Sumac.

Characteristics of Ellis make it profitable for both feeding and industrial use. It has a white, medium-sized, palatable seed with a waxy endosperm

that is suitable for glutinous starch and which can be used industrially for adhesives, sizing, and for human food. The grain is relatively higher in niacin content than most other sorghums, which makes it particularly valuable in hog and poultry rations.

At Hays, Ellis has made an average yield of 24.5 bushels of grain and 4.48 tons of dry forage an acre for the 6-year period—1943 to 1948. It produces a very palatable, sweet juicy stalk, high in sugar content, and the leaves are free from red leaf blotch. It has been fed to cattle at the station for 4 years and has proved very satisfactory, with a minimum of waste.



Here is a field of the new Ellis sorgo, a sweet forage sorghum that shows promise for both feeding and industrial use. It is high in niacin content, which makes it especially valuable for feeding hogs and poultry.



"Reddy Kilowatt
IS OUR HIRED
HAND!"

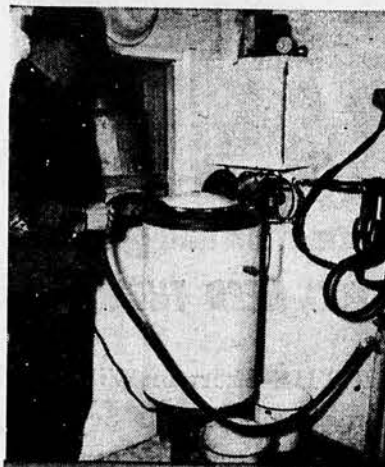


FARM drudgery is a stranger at the farm home of Mr. and Mrs. John Downes near Meriden, Kansas.

Both readily admit that farming 490 acres of land, along with raising three children and tending to twenty dairy cattle is no easy chore without a hired man. But they have found that by using every practical electrical aid inside and outside, the two of them can manage nicely with the help of Reddy Kilowatt.

As John Downes put it, "When you figure the price of a hired hand at a minimum of \$175 a month and then look at the electric bill which averages around \$20 a month, Reddy Kilowatt is the cheapest help we can buy."

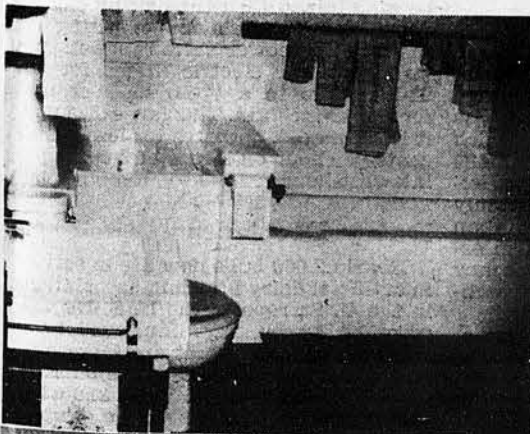
Time-saving is the thing that is important to Mrs. Downes, who helps a lot with the outside work, too. "I can't hurry when it comes to driving a tractor, but I find my all-electric kitchen and electric appliances economical time-savers. It would be terribly hard to get along without electricity now—we just couldn't do it," she says.



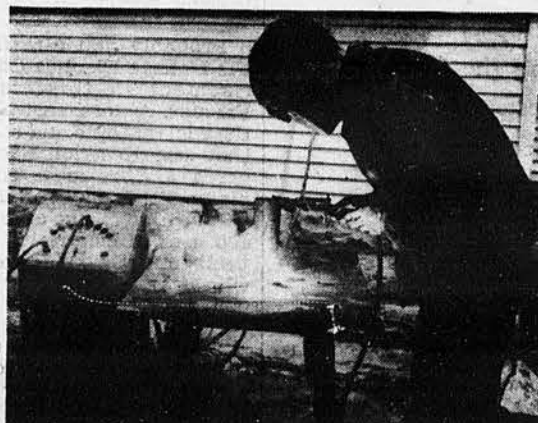
John Downes, Shawnee County farmer, uses electric vacuum milkers, an electric milk cooler and is shown putting water in an electric water heater to insure getting the highest possible price for his milk.



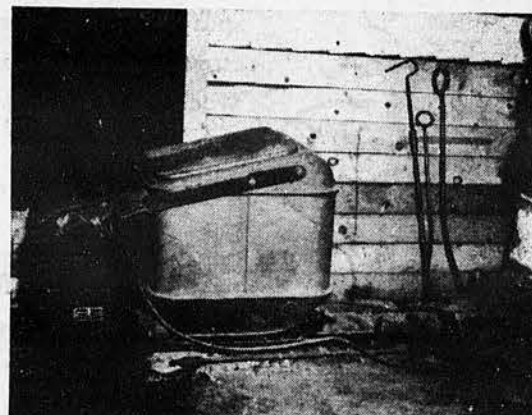
Electrically operated vacuum system furnishes power for this handy milk can handler. A ten-gallon can of milk is light as a feather when placing in or removing from the cooler as Mrs. Downes demonstrates.



Neat bathroom with hot and cold running water is one of the luxuries of which the whole Downes family is proud. An electrically operated water supply makes this sanitary convenience possible.



Another time-saver—and a money-saver too—is John Downes' electric arc welder. The welder is part of his complete farm shop which saves Mr. Downes costly and time-consuming trips to town for repairs.



While many farmers heat only a room or two in the winter, the Downes family enjoys warm comfort throughout their home, thanks to the economical use of coal made possible by an electric coal stoker. It's a time-saver too!

**ELECTRICITY—
Does the Job Better!**

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from the
Pioneers of
Rural
Electrification

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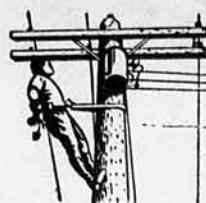
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**SHERWIN-WILLIAMS
AGRICULTURAL CHEMICALS**
Protecting the Food Crops of America



Now That You Have Electricity

By CHARLES HOWES

IT IS interesting to watch the spread of electricity over Kansas. Viewed from the Kansas Farmer plane, the ever-increasing network of power lines bringing a new hired hand to farm after farm is noticeable and encouraging.

Roy Mahon sounded the keynote in Dodge City early this month in discussing the installation of 2-way radio communication in his spraying planes. Mahon owns the Boot Hill Flying Service at the Dodge City municipal airport.

It was his observation that this new facility, altho expensive, would pay for itself in safety. "We can survey a wheat field for obstructions one day," he observed, "and tell the pilot that it is completely free of trouble. When the spray crew arrives, there is a new power line running beside it. Things are going just that fast in Southwest Kansas." The radios will keep the pilots advised of new lines as well as directing them in refilling and refueling.

Two-way radio has taken on a new significance in other farm operations, adapting some war-developed techniques as an answer to one farm problem, communication. With a walkie-talkie installation, a tractor operator in a distant field can call to the house for a tool or part, saving time and mileage. That is one of hundreds of situations. The master unit, we have been told, operates from the house circuit. The portable unit is battery powered. Such an item could supplement the intercommunication system which this column has discussed before for carrying messages by wire from home to buildings or vice versa. Such is progress.

Another observation that comes from flying over Kansas is the way the state's rural countenance is being lifted. That is, it appears that an active effort has been made to paint, clean up, fix up, and improve exteriors in many ways. One passenger expressed the conjecture that perhaps the spread of electric service was providing farmers with more time with which to do those chores. Whatever the cause, Kansas is looking better.

Probably you already have noticed the Kansas Electric Companies advertisement in this issue of Kansas Farmer. A northeast Kansas family is the central topic and the ways in which they use electricity to help tend 490 acres and raise 3 children are explained. It is doubtful if any one family will be able to put all of the more than 400 uses of electricity into a farm establishment—but here are Kansans who have gone a long way in absorbing all of the value in the service.

One line in that ad calls for special attention. Mrs. Downes is quoted as saying "I can't hurry when it comes to driving a tractor. . . ." Have you ever thought that the many automatic features of electric appliances (ranges, washers, etc.) save enough time so that many Mrs. Downes' can help during rush periods in the fields, running the tractor, or doing other tasks which handwork in the home did not permit?

Along with all of the useful items now available to help farmers make full use of electricity, the welders, heaters, water systems, fans, dryers, etc., there are some important devices still in the laboratory stage that bear scrutiny.

Farthest advanced of these is an all-purpose crop dryer. Some farmers already have made effective installations with satisfactory results. A motor-driven fan blows heated air thru the crop in a bin. Another motor operates a screw conveyor to empty the bin. Corn, baled alfalfa, loose hay, and bagged oats have passed the test stage.

We have heard of experiments on an electric calf dehorner, a hot-iron prin-

ciple that eliminates danger of infection and reduces pain. The device sears the tissue at the base of the horn and the horn drops off after 3 or 4 hours.

Another idea that is in the development stage is a water purifier. Essentially, it is a germicidal lamp installed in a tank so that the rays will affect the bacteria as the water passes by. Word that ultrasonic vibrations are being applied to the problems of homogenizing milk and improving seed germinations as well as killing harmful bacteria is reaching out of the laboratories. So we can look for some strange new devices in the farm field before long.

From the west coast, a new frozen food storage idea has hit the market. The product will fit into ordinary refrigerators in contact with the freezing unit and perform many duties in limited sizes.

A clever adaptation of an electric motor was reported recently from a farm which had devised an automatic, power-driven hacksaw. The farmer had rigged up clamps to hold the material to be cut, a frame to hold the saw, and had attached gears and shafts from a gasoline washing machine to the saw handle. An electric motor is the power for the gadget which can be set in motion, then forgotten. A mercury switch cuts off the power when the saw cuts thru.

These electric heat lamps, the schmoo-shaped bulbs that fit any lamp socket and pour out heat just where it is needed, have a new adaptation. Many folks this spring are hanging 2 or 3 of these above the floors of their brooder houses to furnish heat for the chicks. Such a device is not limited to chicks but also is used for pigs.

Have you thought about a home cooling fan, one of those big ventilating units to be installed in the attic or basement to produce summertime comfort. They come in sizes ranging upward from 24 inches and draw the cool evening air thru the house. The reduced nighttime temperature then can be maintained thru the day by closing doors and windows and shutting off the fan. The power units range from a 1/4-horsepower electric motor for the 24-inch size to a 1/2-horsepower unit for the 48-inch fan. This large size unit, it is estimated, operates for less than 2 cents per hour on a rate of 3 cents per kilowatt-hour.

Dairy Progress

Nearly 2,000 bulls now are in service in artificial dairy breeding associations in the U. S., reports the U. S. Department of Agriculture. Improved technique and management are increasing the efficiency of each of these bulls.

Back in 1943, there were 318 cows enrolled for each bull. At the start of 1947 there were 774 cows enrolled for each bull and, at the beginning of this year, the number had risen to 1,243.



"There goes Willie on another whaling trip—to the woodshed!"

Thoughts TO LIVE BY

Common Sense

OF ALL the virtues, common sense is considered to be the most practical. If a college graduate fails, it is because he lacks this very important ingredient, and if a man without much book-learning succeeds, his achievement is readily attributed to common sense. It is common sense that impels a man to feather his own nest as he goes along life's way. Common sense leads one to choose the right friends, i.e., those who can do him the most good. On some occasions, common sense may save one's life. It causes him to make a strategic withdrawal on the assumption that, "he who runs away lives to fight another day." What does it profit a man to attain great skill if he lacks common sense? Tho a man amasses many facts, if he has no common sense, it profiteth him nothing. So reads the great Book that is being written by our attitudes and conduct today.

But common sense alone is not enough. It cannot even be trusted. Common sense would lead us to believe that the earth is flat and that material objects are solid. The neighbors of Christopher Columbus believed that the earth was flat. Their belief was based upon a common-sense observation. But Columbus discovered a new continent because

he had uncommon sense. And so scientists discovered the secret of the atom and released its power on an assumption contrary to common sense. They found the apparently solid materials to be composed of great spaces in which electrons, protons, and neutrons moved about like the planets in our solar system.

The trouble with common sense is that it produces only common people. It never generates heroic deeds. There is not much nobility in the man who has the common sense always to look out for number one. Selfishness is the great foolishness. Instead of being constructive, it is destructive. If one wishes to rise above the crowd, to become an uncommon person, he must have uncommon sense. George Bernard Shaw is credited with having said, "The reasonable man adapts himself to the world; the unreasonable one persists in trying to adapt the world to himself. Therefore all progress depends upon the unreasonable man." (*Readers Digest*, October, 1947, Page 20.)

As a little salt makes soup taste good, so a little common sense will be helpful to us all. And just as too much salt will spoil the soup, so too much common sense will ruin our chances to excel. Uncommon people are people with uncommon sense.

—Larry Schwarz

Much Pomp and Pageantry Mark Apple Blossom Festival

By JAMES SENTER BRAZELTON

IF THE regal accomplishments of George T. Groh, Doniphan county orchardist, and Alban W. Barkley are considered, the two have something in common. Both are crowners of queens. At St. Joseph on the evening of May 5, Mr. Groh, in his capacity as president of the Missouri River Apple Growers, placed a jeweled crown upon the head of lovely Phyllis Smith, of Whiting, which entitled her to reign as queen during the annual 3-day Apple Blossom Festival.

At a recent springtime celebration in Winchester, Va., designed to glorify the apple, the Vice-President of the United States crowned Margaret Thors, attractive brunette daughter of the minister from Iceland, as Queen Shenandoah XXII. Bob Hope, noted screen and radio star was grand marshal of the parade which was called, "The Trail of the Pink Petals."

Queen Phyllis, also a brunette, is the daughter of Mr. and Mrs. Elmer Smith. She is a senior in Whiting Rural High School, Jackson County, and rates high in school leadership.

The 3-day program, filled with much pomp and pageantry, was launched with the queen's ball at the municipal auditorium. Preceding the coronation ceremony a high-class concert was given by the 120-piece University of Kansas band under the direction of Russell L. Wiley. After being crowned, Queen Phyllis read her proclamation declaring the Apple Blossom Festival officially in progress. The remainder of the evening was spent in dancing.

The outstanding feature of the second day of the festival was the apple blossom parade in which the queen and her entourage rode on artistic, flower-bedecked floats. Scattered thruout the long line were 45 colorful, uniformed

bands which included hundreds of students from schools in Northeast Kansas and Northwest Missouri and one from Iowa.

In attendance to Queen Phyllis during the festivities were the following girls who represented their counties: Jeanne Cluck, Bendena, Doniphan county; Thelma Renyer, Fairview, Brown county; Doris McNemee, Mound City, Holt county, Mo.; Phyllis Foster, Union Star, DeKalb county, Mo.; Wilda Frazer, Pickett high school, Buchanan county, Mo.; Betty Jane Presley, Plattsburg, Clinton county, Mo.; Bette Taylor, Savannah, Andrew county, Mo.

It is estimated that more than 40,000 people viewed the colorful procession of bands and floats which was bigger and better than it ever had been in previous years. There were more bands entered and the floats were more exquisite and beautiful and drum major-ettes and twirlers were more numerous.

Picked the Right Time

The time for the festival could not have been set more appropriately. Apple orchards had been in bloom for nearly a week and were at the height of their glory during the celebration, and provided a beautiful backdrop for the events in the festival city.

The closing day of this annual springtime celebration always is children's day and always is featured by a parade which winds in and out thru the downtown business district of St. Joseph. About \$270 was distributed as prize money to the deserving winners from the more than 275 entrants.

Joyce Annette Christian won first prize in the baby section of the parade in which small babies rode in flower-decorated vehicles. In the boy's pet section John Leroy Guy carried off first honors. Linda Sue Hartsock was the winner in the girl's pet section. In the section for decorated bicycles Billy Leonard placed first. The judges gave Kathleen Maka the winning prize in the doll division. Patty Cordonnier received top honors in the costumes section. It was one of the most successful festivals in years.

Argonia, in Sumner county, derived its name from "Argo," the ship in which Jason sailed to Colchis in quest of the golden fleece, by A. E. Parker, who proposed the name to the original town company.

Granite City Patented Strongbarn Resists Severe Hail Storm

reports Clayton Cole, Wellington, Kansas

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



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

"After the storm was over, I inspected my garage. It was not damaged at all. In fact every sheet of STRONGBARN roofing was firmly in place. Not even a nail was loose!"

"It's STRONGBARN for me from here in. And my neighbors will know the STRONGBARN story, too."

STRONGBARN—PATENTED GALVANIZED STEEL ROOFING AND SIDING— IS STRONGER, BETTER, CHEAPER

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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

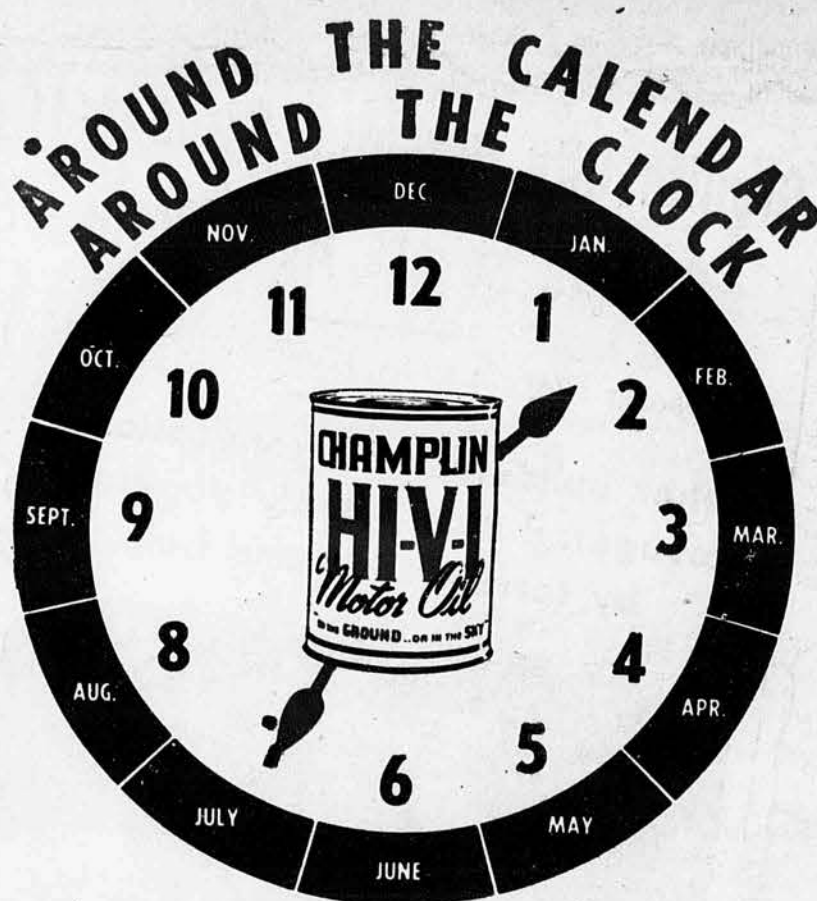
is easy to apply. Because it is stronger and tougher, it wears longer and better.

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.

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What Can Be Done To Increase Grain Storage

By LEO T. WENDLING

Extension Agricultural Engineer, Kansas State College

ALL signs point to another major grain-storage problem in Kansas this year. What can be done to provide this storage? Considering only storage on the farm, the solution involves the purchase or construction of a new granary, or adapting an existing structure to use for grain storage.

Of course, one way out is to purchase one of several metal-type commercial bins on the market. These bins are permanent and are designed for grain storage. They are highly satisfactory.

But your problem may be different. If you want only cheap temporary storage, you may want to fix up one of your regular farm buildings to tide you over the season. A few farm buildings that offer possibilities include machine sheds, poultry houses, garages, barns, abandoned houses, old corncribs and silos.

Storage space to meet minimum requirements should hold the grain without loss of quantity or quality, and should provide a reasonable amount of protection from weather damage. This means a dry, tight floor and roof, bracing the structure to withstand the pressure exerted by the grain, and repairing any leaks. Any building with a large open floor area can easily be adapted to temporary storage at little cost.

If permanent storage is the purpose, it is advisable to do a more thorough job of planning. In addition to considering the minimum requirements previously listed, permanent grain storage should include the following:

1. Be conveniently located on the farmstead.
2. Be structurally sound.
3. Provide for mechanical handling or movement of the grain.
4. Permit effective fumigation for insect control.

5. Provide protection against rodents, birds, or other pests.

A good location for grain storage is near the farm buildings on high, well-drained ground. It is generally desirable also to have good access to the storage and keep all weeds, trash or debris cleaned up around the building to provide fire protection.

The structural requirements of good storage should definitely be considered.

Helpful Bulletins

- No. 1—Tractor Mounted Posthole Digger.
- No. 6—Rear Mounted Posthole Digger.
- No. 8—Fertilizer Spreader.
- No. 171—Kansas Poultry Cottage.

Above Kansas State College Extension publications are free as long as the supply lasts. The information is authentic and reliable. Anyone interested in these subjects may order a free copy from Bulletin Service, Kansas Farmer, Topeka.

The foundation should have footings large enough to prevent settling. One square foot of surface-bearing area on the ground for each 60 bushels of storage is adequate for most soils. The foundations should extend below frost level which is about 3 feet in Kansas.

The floors for grain storage must be tight and dry. They are usually either a suspended wood floor or a concrete slab.

The size and spacing of joists required for wheat storage of various depths is given in the following tables:

Safe Depth of Wheat in Bins With Joists of Common Sizes for Lengths Indicated*

Joists Supported at Ends Only				
Size of Joist (inches)	Length of Joist			
	6-Foot	8-Foot	9-Foot	10-Foot
24-inch Spacing				
2 x 6	3	Feet	Feet	Feet
2 x 8	4 1/2	3	..	..
2 x 10	6	4	3 1/2	3
2 x 12	8	5	4 1/2	4
16-inch Spacing				
2 x 6	4 1/2	..	..	..
2 x 8	6 1/2	4 1/2	3 1/2	3
2 x 10	9 1/2	7	5 1/2	4 1/2
2 x 12	12	8	7	6
12-inch Spacing				
2 x 6	6	..	..	..
2 x 8	9	6	5	..
2 x 10	12	8 1/2	7 1/2	6
2 x 12	16	11	9 1/2	8
Joists Supported at Each End and at Center				
24-inch Spacing				
2 x 6	4 1/2	3 1/4	..	..
2 x 8	6	4 1/4	3 1/2	..
2 x 10	8	5 1/2	4 1/4	3 1/2
2 x 12	10 1/4	6 3/4	5 1/4	4 1/4
16-inch Spacing				
2 x 4	4 1/4	3	..	..
2 x 6	7	4 3/4	3 3/4	3 1/4
2 x 8	9 3/4	6 1/2	5 1/4	4 1/4
2 x 10	13 1/4	8 3/4	6 1/2	5 1/2
2 x 12	16 3/4	11 1/2	8	6 1/2
12-inch Spacing				
2 x 4	6	4 1/4	..	..
2 x 6	9 3/4	6 1/2	5 1/4	4 1/4
2 x 8	14 1/4	9 1/4	7	5 3/4
2 x 10	19 1/4	12 1/2	9	7 1/4
2 x 12	24 1/4	15 3/4	11 1/2	9

*USDA

(Continued on Page 17)

Size and Spacing of Joists for Overhead Bins*

Width of Driveway	Safe Depth of Grain							
	4 feet		6 feet		8 feet		10 feet	
	Size of Joists	Max. Spacing of Joists	Size of Joists	Max. Spacing of Joists	Size of Joists	Max. Spacing of Joists	Size of Joists	Max. Spacing of Joists
9 feet	2 x 8	12	2 x 10	12	2 x 12	12	3 x 12	16
10 feet	2 x 8	12	2 x 10	12	2 x 12	12	Two 2 x 12	18
11 feet	2 x 10	12	2 x 12	12	2 x 12	12	3 x 12	12

*USDA

Slab floor should be a 6-inch watertight concrete slab over a good gravel fill or hollow tile. It is sometimes advisable to cover a concrete floor with loose boards to reduce spoilage near the floor. All concrete floors should be allowed to cure 30 days before using.

The following table gives the structural requirements for the walls of a grain-storage building:

Safe Depth of Wheat in Bins With Studs of Common Sizes and Spacings*

Sizes of Studs	Spacing Center to Center	Depth of Bin	Depth of Wheat	Sizes of Studs	Spacing Center to Center	Depth of Bin	Depth of Wheat
Inches	Inches	Feet	Feet	Inches	Inches	Feet	Feet
2 x 4	24	8	4	2 x 6	24	8	7
2 x 4	16	8	6	2 x 6	16	10	8
2 x 4	12	8	7	2 x 6	12	10	9

*USDA

Any of the good roofing materials, shingles, metal, composition shingles, or roll roofing when properly applied provides a satisfactory roof for grain storage.

To calculate the capacity of a grain bin divide the cubic feet of storage space by 1.25.

Before building a new grain-storage structure all of the points required of a good granary should be considered and in addition construction plans obtained. The following is a list of grain-storage plans available upon request from the Engineering Extension Department, Kansas State College, Manhattan, Kan.:

Kansas State College Plans

73-213—Granary 9 by 24 feet. Frame construction, shed roof, concrete floor, alternate detail showing wood floor, 2 bins. Capacity, 1,400 bushels of grain. 30 cents.

73-221—Grain Storage Building 24 by 30 feet. Made up of Plans No. 73-211 and No. 73-213 with a 12-foot driveway between. Roller doors at each end of driveway, frame construction, gable roof, concrete floors, alternate details showing wood floors. Capacity, 700 bushels ear corn and 1,400 bushels grain. 80 cents.

73-223—Farm Elevator 26 by 30 feet. Frame construction, gable roof, concrete floors, 2 bins 8 feet wide and 10-foot driveway between, overhead bins, stationary elevators, concrete dump pit, room for grinder, fanning mill. Capacity, 1,500 bushels ear corn, 4,000 bushels grain. 60 cents.

Midwest Plans

73211—Movable Grain Bin 10 by 10 feet. Frame construction, gable roof, skid-mounted. Capacity, 500 to 600 bushels. 15 cents.

73212—Movable Grain Bin 12 by 14 feet. Frame construction, skid-mounted, gable roof. Capacity, 1,000 bushels. 15 cents.



"Hello... John-n-n, darling..."

73213—2,000-Bushel Grain Bin. Frame construction, gable roof, door in roof for elevator, roof ventilators. 15 cents.

73214—Grain-Storage Building 31 by 32 feet. Frame construction, gable roof with openings for exterior elevator, driveway thru the middle. Capacity, 5,000 bushels. 30 cents.

73231—Farm Elevator 30 by 30 feet. Frame construction, gambrel roof, concrete foundation and floors, 9 bins, power room, 10-foot driveway. Capacity, 10,000 bushels. 45 cents.

U. S. Department of Agriculture Plans

5092—Farm Elevator 26 by 28 feet. Frame construction. Capacity, 6,800 bushels. 80 cents.

5528—Four-Bin Granary 14 by 24 feet. Four bins, 7 feet by 8 feet 10 inches. Frame construction, gable roof, seed-cleaning space in the middle. 15 cents.

5529—Granary 31 by 32 feet. Four bins, 10 by 16 feet. Driveway thru the middle, granary to be filled with elevator thru roof. Capacity, 6,400 bushels. 15 cents.

5532—Grain Elevator. Frame construction, walls made of 2- by 4-inch cribbing, 10 overhead bins with hopper bottoms, driveway thru the middle. Capacity, 10,000 bushels. 45 cents.

Help for Fair

William H. Wegener, Norton county, has been appointed assistant secretary of the Kansas State Fair. He is well equipped to handle the newly-created position, having served on the board of fair managers and the Kansas State Board of Agriculture for the last 6 years. During his service on the fair board, Mr. Wegener served 4 years as vice-president of the board and superintendent of admissions.

His new duties will be devoted primarily to assisting concessions and offering every possible service to farm and industry exhibitors who contribute so much to the success of the fair.

As soon as possible, Mr. Wegener will move his family from their Norton county home and establish their residence in Hutchinson.

Handle Cream Better

Kansas cream station operators are attending 31 district meetings during April and May to learn how to do a better job. They will be shown the proper methods used to determine sediment in cream samples, and the proper handling methods in obtaining quality cream.

Operators also will hear details of the American and Kansas Dairy Association programs, states Harry E. Dodge, state dairy commissioner.



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☐ Bulldozer Blade	☐ Loader Fluid
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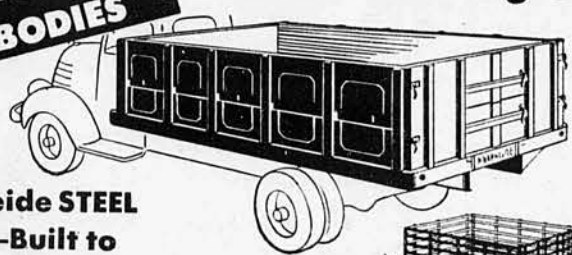
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Home Management Is Not Housekeeping

By Florence McKinney

THERE'S a difference between housekeeping and home management. That's what Mrs. Jane Barnes told me during my day's visit to the 3 home management houses at Kansas State College. She added that housekeeping is taking care of the house itself and that home management is more . . . it's directing, guiding, planning, choice making, promoting and coordinating . . . which, if successful, makes a happy home with well-adjusted family members.

These are the things the college girls in home economics learn nowadays and I feel prompted to add that home economics in schools has gone a "fur piece" since my day at the same institution. The day of teaching skills only, has long since passed. Mrs. Barnes, who is the house adviser for Ellen Richards Lodge, the high-income budget house, added that the trend is away from skills toward learning to live happily together. That sounds like progress. But to show you just how the whole business clicks let us call on the girls and their advisers in all 3 of the home management houses on the campus.

They're new and have taken the place of rented homes off-campus. The first one is named for Ellen Richards, one of the pioneers who gave direction to home economics in the early days. Ellen Richards Lodge is in the modern vogue as far as home decoration is concerned. In fact, the lavish use of color on walls, woodwork and ceilings is noticeable in all 3 houses. At the front door of Ellen Richards the view is pink . . . walls, ceiling and woodwork. Colors change from room to room, but always, woodwork, walls and ceiling are the same color.

This is the gay, new, modern trend and the faculty advisers who planned the decorations

wished to give the students the experience of living with it. Ellen Richards Lodge is planned to house 6 girls at a time who live from 8 to 9 weeks there and then move to either Ula Dow Cottage or to Margaret Ahlborn Lodge for added experience at different economic levels. All junior and senior girls who plan to teach, become home demonstration agents or home service directors take their turns in 2 of the houses.

At the time of my visit the 6 girls living at Ellen Richards were Edith Wilson, Wheaton; Patricia White, Wellington; Betty Krehbiel, McPherson; Carol Blecha, Manhattan; Mary Lee Hix, Norton, and Clarice Cooper, Gridley. Ellen Richards, operated on a higher income than the others, is equipped with many features not found in the others. There's an automatic washer, dishwasher and garbage-disposal unit, ironer and home freezer. The girls prepare foods for freezing, cooked and uncooked. When

Below: Ellen Richards Lodge in foreground. The duplex, one half of which is Margaret Ahlborn Lodge and the other Ula Dow Cottage in background.



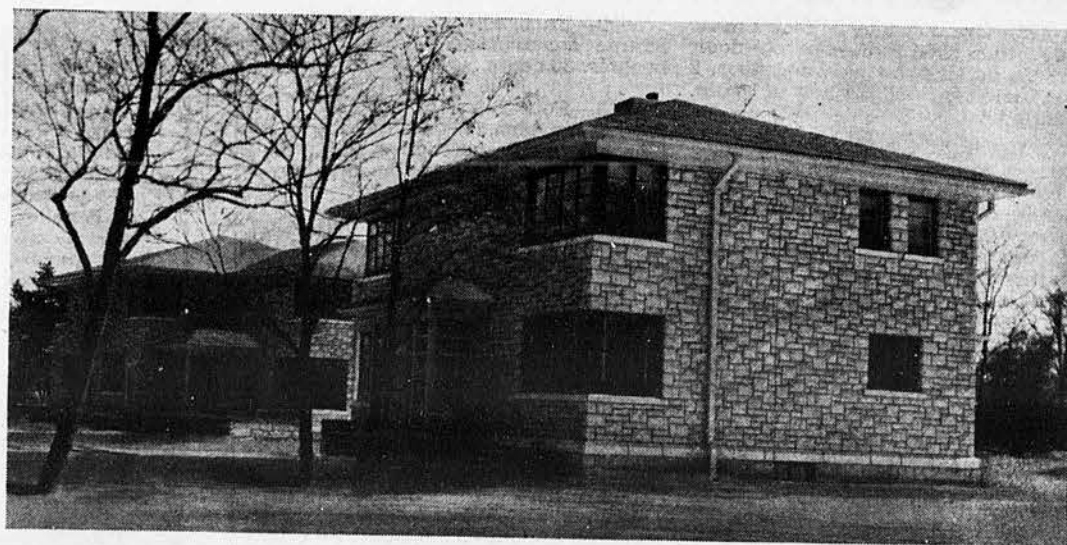
Above: Lavonne Theobald, Yates Center (standing), and Shirley Scott, Garden City, in living-dining room of Margaret Ahlborn Lodge, home management house on campus, Kansas State College.

they bake pies, they bake several and freeze the extras for the rest of the week.

When the team of girls move into Ellen Richards they hold an organization meeting with Dr. Florence McKinney, head of the department of household economics, and Mrs. Barnes, their own home adviser. This is called the family council and they discuss the various responsibilities of a homemaker. They divide the duties and rotate them so each girl gets experience in all the phases of homemaking. One girl is food manager. She buys groceries, plans and prepares the meals. The assistant food manager helps her and in addition sets the dining table and acts as waitress. A housekeeper is appointed for each floor, including the basement. Needless to say [Continued on Page 20]



Above: A conference between Hazel Molzen, house adviser, and Jane Foster, in the former's room at Margaret Ahlborn. Note built-ins, both cupboards and bed.



Right: A corner of living room at Margaret Ahlborn Lodge. Left to right, Hazel Molzen, house adviser; Lavonne Theobald, Yates Center; Jane Foster, Altamont; Carolyn Hinds, Hutchinson; Harwood Schwartz, a guest; Shirley Scott, Garden City.

Betty Crocker tells...

How to make perfect Oatmeal Bread—every time!



Something important to remember about bread-making

by Betty Crocker

● In the making of Oatmeal Bread, as in all other baking, the flour you use can mean the difference between success and failure. That's why it's important that you use Gold Medal "Kitchen-tested" Enriched Flour. For Gold Medal's lightness and fine texture never vary. Its superb baking qualities are always the same...always uniform.

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... MIX



... KNEAD



... COVER, LET RISE



... DIVIDE, LET RISE, BAKE

MIX together
CRUMBLE into mixture
STIR until yeast is dissolved.
STIR in
MIX in, first with spoon,
then with hand

5 cups lukewarm liquid (*milk, water or potato water)
½ cup brown sugar (packed in cup)
2 tbs. salt
¼ cup soft shortening
2 cakes compressed yeast (**or 2 pkg. dry granular yeast)

‡4 cups rolled oats
†10 to 11 cups sifted GOLD MEDAL "Kitchen-tested" Enriched Flour, adding in 2 additions, using the amount necessary to make dough easy to handle

Turn dough onto lightly floured board, cover and let stand 10 minutes to tighten up, then knead until smooth. Round up and place in greased bowl. Cover with damp cloth and set to rise at 85° until double in bulk...1½ to 2 hours. Punch down dough. Divide into 4 parts. Shape into loaves. Put into 4 lightly greased bread pans, 5x9x3-in. Cover with damp cloth and let rise at 85° until double in bulk...about 1 hour. Bake 30 to 40 minutes in moderately hot oven (400°).

* If raw milk is used, it should be scalded and cooled to lukewarm.

** If dry granular yeast is used, follow the pkg. directions. Or, add to ½ cup lukewarm water and let stand 5 minutes without stirring. Stir thoroughly before adding to liquid mixture in recipe. Subtract the ½ cup water from total liquid in recipe.

† If quick-cooking rolled oats are used, increase flour to 11 to 12 cups.

NOTE: Do not use this recipe with Self-Rising Flour.

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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.



Home Management Is Not Housekeeping

(Continued from Page 18)

they clean, take care of plants and flowers, look after furniture arrangement and in general keep the rooms in order. The laundress does the washing for the entire household, buys laundry supplies and does the ironing. Sometimes there is an assistant who attends to the mending of household linens. There is always a host and hostess to make guests comfortable. Then there is the dishwashing and the repair jobs, assumed by everyone in rotation.

The food manager buys at the rate of 70 cents for each and that must cover the cost of food for guests. I might add here that Thelma Palma, a student from Panama, lives with the girls and for a purpose. The girls learn about foreign culture by living with Thelma, while Thelma sees homemaking the American way. Next door at Margaret Ahlborn Lodge lives Justina Singh, from India, who is enrolled in the home economics department on a Kansas State College scholarship.

On that 70 cents for food for each person, the menu looks like this:

Breakfast

Grapefruit Juice Cooked Cereal with Dates
Cinnamon Toast
Coffee

Lunch

Tomato Soup Cottage Cheese Salad
Bread and Butter
Sliced Peaches Milk

Dinner

Pork Chops and Gravy
Mashed Potatoes Frozen Spinach
Carrot and Celery Strips
Banana Cream Pie Coffee

If you think that's a bit light for your family, remember all are women. Patricia says, "On 70 cents we do very well. It sounds impossible but with planning we do it easily. Besides feeding ourselves, we have entertained our friends and some faculty members. We may have to conserve a bit by entertaining our friends with an evening popcorn party, but popcorn is good and we have a good time doing it."

Next door at the duplex which is half Margaret Ahlborn Lodge and half

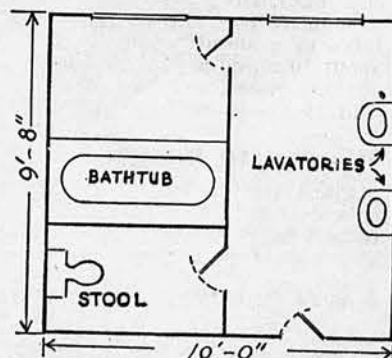
Ula Dow Cottage, gay colors meet the eye, exactly as bright and gay as at Ellen Richards. A variety of colors has been used in the decorative scheme in Margaret Ahlborn but at Ula Dow yellow in several shades and tints has been used over the entire house, darker here, lighter there. This being the low-income house, the budget was limited and they found it was less expensive to buy one color in large lots than several colors.

In this house, each girl pays \$60 for her 8 to 9 weeks' stay which covers food, utilities, small equipment, cleaning supplies, magazines, newspapers, books, music, entertainment and replacement of linens. Furnishings are less expensive here and the kitchen, for instance, has open shelves for storage.

At Margaret Ahlborn, the girls plan food costs on 60 cents a day for each girl. This necessitates careful buying, in large quantity if possible, and shopping around for special bargains. "They use less frozen fruits and vegetables, for one thing, as a thrift measure," says Hazel Molzen, the house adviser who makes her home with the girls.

Jane Foster, of Altamont, who lives there said, "I have learned how to work with other people and like it." Lavonne Theobald, of Yates Center, added, "Housekeeping must be worked in between classes and I learned to plan ahead and manage my time." Carolyn Hinds, Hutchinson, said, "I can now get a complete meal, get everything done at the right time, something I had not learned at home." Shirley Scott, of Garden City, thinking about all the equipment, added, "I've learned about the time- and energy-saving values of the latest equipment and efficient storage." Other girls living there were Lberta Kugler, of Abilene; Ledie Mae Jackson, of Emmett, and Nancy Mar-

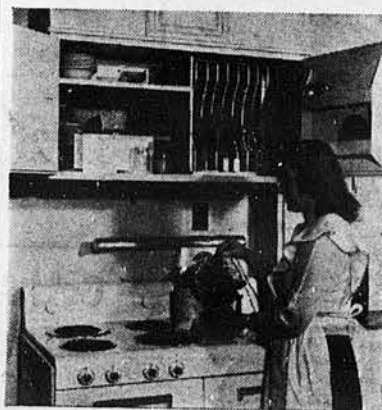
(Continued on Page 21)



Right: The 3-unit bathroom is ideal for the 6 girls who live at Ellen Richards. Two lavatories in one room, the stool in the second and the bathtub in the third is suitable for a large farm family as well.



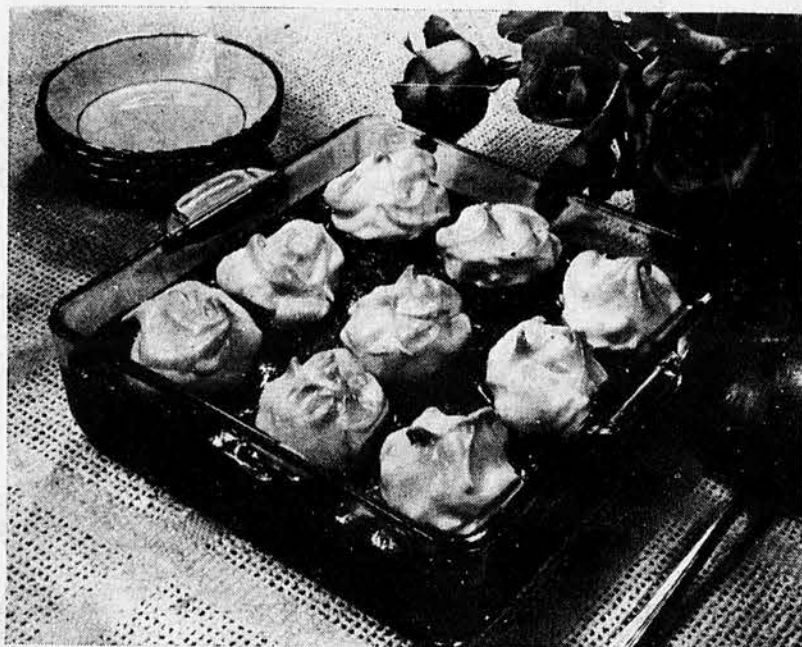
Above: Grouped around fireplace in Ellen Richards Lodge are Betty Krehbiel, reading school paper; Patricia White; Mrs. Jane W. Barnes, house adviser; Dr. Florence McKinney, head of department of household economics



Left: Patricia White, Wellington, makes coffee at stove in kitchen of Ellen Richards Lodge. Cupboards contain utensils used at stove. Electric exhaust fan above stove does a fine job of removing odors.

Homemaking

The Recipe Corner

**Rhubarb Strawberry Meringue**

4 cups diced rhubarb ¼ cup sugar
2 cups strawberries 2 egg yolks, beaten
3 tablespoons flour 2 egg whites
 ¼ cup sugar

Pour boiling water over the diced rhubarb and allow to stand for about 5 minutes. Drain rhubarb and place in sauce pan. Add strawberries. Mix the flour and ¼ cup sugar and add to fruit. Simmer for about 10 minutes, stirring frequently. Remove fruit from heat and add beaten egg yolks and stir. Pour into a square baking dish. Beat egg whites until stiff. Gradually beat in ¼ cup sugar. Drop beaten egg whites in 9 mounds on top of fruit in baking dish. Bake in moderate oven (350° F.) for about 10 minutes or until meringue is slightly browned. Serve either hot or cold. Makes 9 servings.

Women to K-State

Plans are progressing for the women's section of Farm and Home Week to be held in Manhattan, June 7, 8, 9

Farm Scene

919

This peaceful farm scene will please the whole family. Embroider it easily in single and outline stitch, frame or line it. Pattern 919 includes transfer 15½ by 19 inches.

Send 20 cents for needlework pattern to Needlework Editor, Kansas Farmer, Topeka. Fifteen cents more for the Needlework catalog with a free pattern printed in the catalog.

and 10, according to Georgiana Smurthwaite, state home demonstration leader, Kansas State College, Manhattan. This conference, open to any Kansas homemaker interested in better living and improving her household economy, is expected to attract some 500 women to the college campus.

Held at the time of year usually scheduled for the state assembly of the Kansas Home Demonstration Council, the conference not only offers short courses in the various fields of home economics, but affords home-talent festivities in the way of county choruses and dramatic presentations.

"On the evenings of June 8 and 9," Miss Smurthwaite explains, "we are considering home-talent features. Groups may put on one-act plays and chorus numbers. We ask these choruses to be prepared to sing in mass.

Home Management

(Continued from Page 20)

tin, of Topeka, who were at classes on the campus during my visit.

Some of the girls like the intense colors of the walls, ceiling and woodwork, some don't. They agreed, however, that they absorb more light than lightly tinted surroundings and more lamps are needed.

The kitchen of Ellen Richards is an example of the best methods of building efficient storage I have seen. Every Kansas farm woman, busy as she is, needs such well-planned space. It's not so much a matter of having large areas for storage, but of using the space efficiently and storing the coffeepot and mixing bowls where they are used first.

Belleville, county seat of Republic county, was named for Arabelle, wife of A. B. Tutton, president of the town-site company.

Every inch of space is utilized. Sliding drawers may be pulled out from either the kitchen or the dining-room sides. That's what the girls call a pass cupboard and both dishes and table linens may be reached from either side. Adjustable metal strips inside the cupboard space make all the shelves movable. There are deep shelves for tall items, shallow ones for low. Bowls and dishes of more than one size are not nested... that's good storage.

The bathroom in Ellen Richards Lodge was planned for 6 people and might well be adapted for the farm home with as many members. The space, about 10 by 10 feet, is divided into 3 small rooms, one for 2 wash-bowls, one for the bathtub, the other for the stool. This 3-room arrangement permits the use of the bathroom by several people at the same time. The arrangement seems suitable for the large farm family.

Here in these 3 houses, the girls learn to divide their responsibilities, entertain their friends and live happily together... that's home management, not housekeeping.

Good together
-for breakfast

Nutty Coffee Cake

RECIPE: Sift and mix 2½ cups flour, ½ tsp. salt, 1¼ cups brown sugar. Blend in ½ cup shortening. Reserve ¼ cup of mixture. To remainder add 2 tsp. baking powder, ½ tsp. baking soda, 1 tsp. cinnamon, mix well. Stir in 1 well-beaten egg, ¾ cup buttermilk. Pour into 2 greased 8" square pans, top with reserved mixture. Sprinkle with cinnamon and ½ cup chopped nuts. Bake in moderate oven (400° F.) 25 minutes.

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Fashion Plan



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30-42



4532
SIZES
12-20

4674—Delightfully simple to make, no waist, no shoulder seams. Sizes 12 to 20 and 30 to 42. Size 16 requires 2 3/4 yards and 7/8 yard contrast.

4532—A slenderizer with a youthful air. No shoulder or side-skirt seams. Sizes 12 to 20. Size 16 requires 3 1/4 yards of 35-inch material.

4827—Flattering dress with a bare midriff version. Has few seams. Sizes 11 to 17. Size 13 requires 3 1/2 yards of 35-inch material.

4702—A dashing ensemble. Skirt has back pleats. Bolero and Mandarin collar, sharp cuffs. Blouse is easy. Sizes 12 to 20. Size 16 suit requires 4 5/8 yards; blouse 1 3/8 yards of 39-inch material.

9398—Slimming dress. Add lace or use contrast for collar and panel. Sizes 34 to 50. Size 36 requires 4 1/2 yards of 35-inch material.

4827
SIZES
11-17

9398
SIZES
34-50



4702
SIZES 12-20

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Homemaking

Blend Sirup and Sugar

According to research scientists at the Oregon Experiment Station, the best sirup for sweetening fruits for freezing is a blend of light corn sirup and sugar. They tested 13 different fruits, packed and frozen in 22 different sirups—from straight sugar sirup to straight corn sirup to various blend of the two.

When the fruits were defrosted and served to trained judges, the highest ratings for flavor, texture and color went to those packed in a medium or a heavy sirup made of both sugar and corn sirup.

Homemakers who are freezing fruits may use either one. For the medium sirup, use 5 cups cold water, 2 cups corn sirup and 2 cups sugar. For heavy sirup, use 4 cups cold water, 2 cups corn sirup and 3 cups sugar. To make, combine water and sugar and stir until sugar is dissolved. Add corn sirup and mix well. No cooking is required. Be sure the sirup completely covers the fruit in the container before sealing for freezing.

For Brides and Mothers

Everything from announcement of the engagement, showers, gifts, thru the wedding, is given in the leaflet, "Mary Ann's Chapter for Brides and Mothers." It explains the duties of the bridesmaids, the best man, ushers, the details of church weddings, home weddings, including the reception. For a copy of the leaflet, please send 5c to Entertainment Editor, Kansas Farmer, Topeka.

How to Wrap

Foods that are going to be stored in a home freezer for not more than 2 weeks do not have to be wrapped in moisture-vaporproof heat-sealed packages. Even highly perishable hamburger can be safely frozen and stored simply in a covered container, if it is to be eaten within 2 weeks.

Simplified packaging methods enable smart homemakers to use their home freezers almost as freely as they use their refrigerators, living out of them daily. If food is to be kept longer than 2 weeks, it should be wrapped for long-time storage in moistureproof paper.

The farm homemaker can buy a week's supply of bread, keep out whatever she needs immediately and put the remaining loaves in the freezer in the original waxed paper or ordinary cellophane.

Hamburger should be shaped into patties or a loaf and placed in a covered container. Refrigerator dishes with glass or oiled-silk covers are satisfactory for this short-time storage in the home freezer.

When storing chops for a 2-week storage period, place a double thickness of cellophane or aluminum foil between each piece to prevent them from freezing together. Ordinary waxed paper is not suitable for wrapping moist foods because it absorbs water and sticks to the meat.

Aluminum foil may be used over and over again. Glass jars are excellent for leftover stews and soups.

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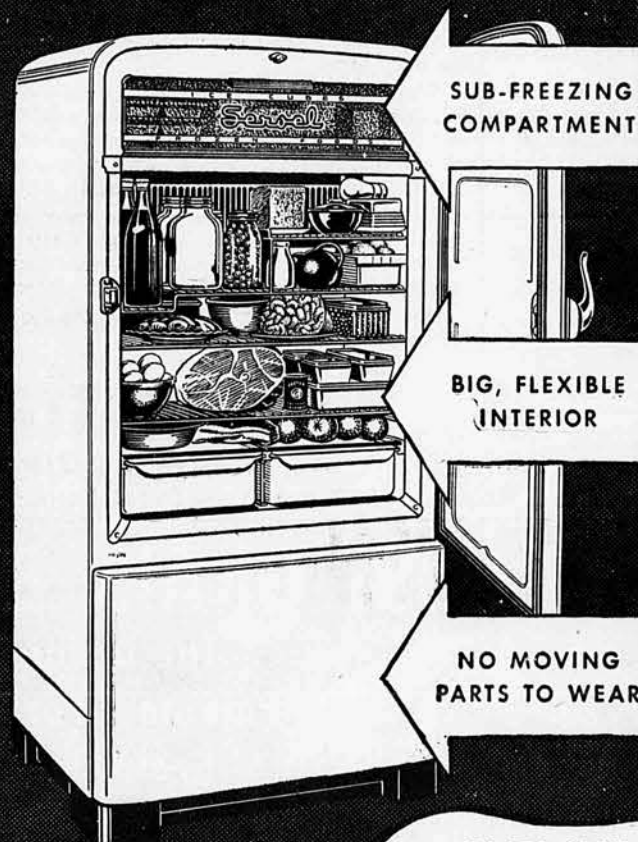
"Plays for Club and School," 10c. This leaflet has 3 short plays: Majoreess Bow-Wow's Amateur Hour, 10 characters; At the Hamburger Stand, 3 characters; An Old Maid's Club Meeting, 8 characters. They may be used for a school, club or community program.

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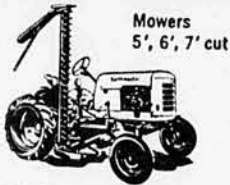
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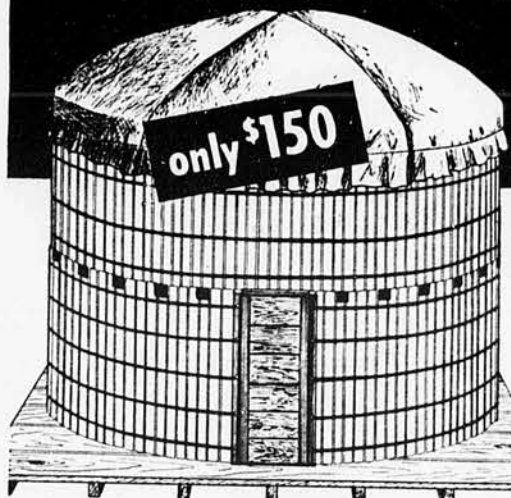
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- 1 reinforced steel door frame
- 1 roll asphalt treated kraft paper
- 1 piece asphalt treated blanket cover
- 25 "5" hooks to connect upper and lower sections
- 1 roll galvanized wire for securing cover
- 15 bolts for fastening sections together

The Denning Bin comes in two sections, each four feet high, 41 feet long. Sections are seasoned pine or fir staves tightly bound with galvanized steel wire to five strong galvanized steel hoops. Just unroll; bolt in steel end and door frame sections. Line with asphaltum rolls ready to fill and cover.

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Depend on Youth

Young People Have Job of Saving Our Soil

By ED RUPP



John DeMott, Cowley county, shows one of the 540 cedars he transplanted to a shelterbelt a year ago. He lost only 4 out of those he planted. John is a national 4-H soil conservation champion.

YOUTH will save our soil. A visit with John DeMott, Cowley county 4-H Club member, lends emphasis to that statement. He was state 4-H soil-conservation champion last year. He went on to the National 4-H Congress at Chicago in December as one of eight 4-H leaders in the nation to win the \$200 scholarship award from the Firestone Rubber company.

Talk to John about his conservation work. Drive over his father's fields, if you can. (We did after a thaw and got stuck, but we saw the farm.) You soon get the idea that success of soil conservation depends on youth.

And youth must depend on the co-operation and understanding of parents to achieve higher goals. John received that help from his father and mother. Charles F. DeMott was one of the early birds. He started working with soil-conservation plans back in the early thirties. That played a role in his son's success as a national winner.

There are 4 distinct plans of conservation on the DeMott farms. Three are on farms under cultivation. One is grazing land. John's efforts were confined largely to a farm purchased only a few years ago. On this place he could start from scratch and see his work thru to completion. But he did work on the other farms, too.

Look at the one farm first. It was divided into 14 fields and lots when purchased. And fences were by no means along contour lines. There was virtually no vegetative protection for the farmstead. That provided a natural starting place for John. The first year he purchased 800 cedars and set them out in a garden spot to get more growth on them. In the meantime, he

summer fallowed the location for his planned shelterbelt. It would be around the west, north and east sides of the farmstead.

His planning paid off. He set 540 cedars the following year and saved all but 4 of them. He planted them with a mechanical posthole digger. Placing them in the hole, sides were caved in to get good topsoil around roots. This, along with careful cultivation, got the trees started right.

This quarter-section farm is quite flat. It does not look as if it would need terraces. Gully erosion was negligible, but there were evidences of sheet erosion. And one corner of the field habitually remained wet longer after rain. A grassed outlet and terrace system has changed that.

After removing fences and $\frac{3}{4}$ mile of hedge, the soil-management plan was started. First requirement was the waterway. An L-shaped strip along the west and south sides was summer fallowed for brome grass. This 7-acre strip of soil had been limed and was fertilized with more than 100 pounds of 45 per cent phosphate. It was seeded in fall and an excellent waterway was the result.

Last summer, his third year of work, John built 10,300 feet of terraces on this quarter. All of them were built with a plow. He figured it required 50 hours of tractor work to do the job. Experience in building plow terraces on the other farms helped him get the job done quickly. He just went out and started to plow when building his first terrace a few years ago. It took a lot of time and effort. Since then, the island method of plowing terraces has cut time and expense considerably.

(Continued on Page 25)



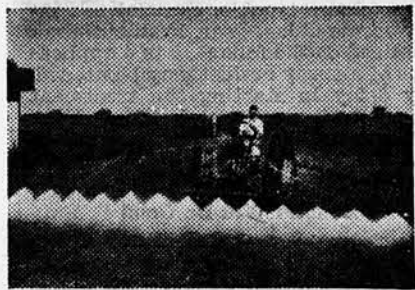
John DeMott's father, Charles F. DeMott, right, examines a sample of bluestem that grew to new heights when this old pasture was given a chance to live. It was mowed twice a year for 2 years, then cattle were kept off the third year. It grew knee-high last summer where ankle depth was the limit before.

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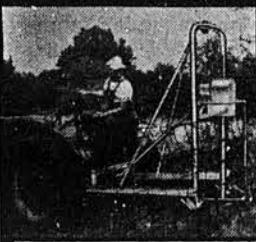
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What will be the result of this work on a flat quarter section of land? Experience his father has had on his home farm answers that. After 15 years under terrace and following good farming practices, Mr. DeMott feels certain his land is producing twice as much as it would now had he not followed those practices.

But look what else John has done to improve crops and conserve soil. On the home farm he built another waterway about 3/4-mile long that is 2 acres in size. It carries water from some of the first terraces built on the farm. At that time terraces were dumped into the hedge row. Now they have a grassed outlet. From the outlet, a diversion ditch carries water into the natural drainage way and thru a permanent pasture.

That 20-acre permanent pasture received special treatment, too. Close at home, this bluestem had been grazed heavily. It seldom reached more than ankle depth. He mowed it twice a year for 2 years, then cattle were kept off one full season. The grass grew knee-high and formed a lot of seed. It is ready for good grazing again now.

On another quarter-section farm that is mostly all grass, stock was limited to 17 head during summer of 1947 to give the grass a chance to come back. It made an excellent recovery. Last year it carried 38 head with ease and made a large growth, too. After careful grazing this area now looks like a different pasture.

Enlarged a Pond

Two ponds in this pasture were rebuilt and enlarged. One of these ponds covered about half an acre and had silted in after years of use. The dam was enlarged and it now covers about 2 1/2 acres and is 14 feet deep. John plans to stock the larger pond.

For use in future grass seeding, he established a 1/4-acre seed plot of intermediate wheat grass during his first year of work. It was started just below a terrace to give the scarce seed full protection. It was seeded in 40-inch rows with oats and produced an excellent stand. Dry weather early last spring, followed by wet weather in summer, cut seed production last year. They harvested only a half bushel of seed with a combine.

Sweet clover has been a standard crop in the rotation on this farm for 20 years or more. Each year about 20 acres is seeded with wide-spaced oats and second-year clover is plowed down for wheat or row crop. It increases wheat yields 10 or 15 bushels, says Mr. DeMott.

Along with clover, alfalfa is used in rotation largely on the home farm. It is needed for hay for the dairy herd they maintain. Their present plan is to cover the whole home farm with alfalfa in the next few years. It will be permitted to stand a maximum of 5 or 6 years before being plowed down.

In a few words, the DeMott program consists of soil- and water-management practices, backed up by a good legume rotation.

Not for Dairy Cows

DDT should not be used for insect control on dairy cows, entomologists of the U. S. Department of Agriculture say. Even small amounts of DDT in a food such as milk, a universal diet especially for infants and small children, might prove harmful in time, toxicologists of the Food and Drug Administration, Federal Security Agency, now say after several years of study. They say presence of the chemical in milk would be contrary to the Food, Drug, and Cosmetic Act.

The entomologists now recommend that methoxychlor, another effective insecticide, be substituted for DDT to control insect pests on dairy cows.

Department of Agriculture entomologists, chemists, and veterinarians, co-operating in the investigations on the toxicology of DDT and other insecticides, say that application of DDT directly to milk cows for controlling insects results in the presence of small quantities in the milk.

Federal entomologists make no change in their recommendations for the use of DDT in controlling insect pests on other livestock, including beef cattle.

The Bureau of Entomology and Plant Quarantine has repeatedly cautioned that forage treated with DDT and other chlorinated hydrocarbon insecticides should not be fed to dairy animals or to livestock for slaughter.



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Watch Your Tomatoes!

By WILLIAM G. AMSTEIN, Kansas State College Extension Horticulturist

TOMATO growing brings us more questions in Kansas than any other of our common garden crops. Most production problems can be handled if noticed in time and possible remedies used.

One practice that should be a standard in tomato production is staking or supporting the plants. Not only will it save space in the garden, but it permits better insect and disease control, since coverage of both foliage and fruit with spray or dust is made easier. You will recall in harvesting tomatoes from unstaked plants that often more than half of the fruits are culls due to soil stain or sunscald or both. It is worth while to take time, I believe, to stake plants to avoid a large share of this cull fruit loss. You will enjoy the added convenience in harvesting this fine quality fruit.

Many successful market gardeners find staking and pruning pay good dividends in several other ways. As a rule, I believe fruit on staked plants ripens earlier than on ground plants. The average quality of fruit is better and less foliage injury develops.

Farm and home gardeners will find that staking tomatoes does not require too much extra time. Certainly when the better results are considered, the practice seems well worthwhile.

Staking tomatoes usually consists of locating a stake close to each plant. The stake needs to be heavy enough so that with about 4 feet of it above ground under average conditions the loaded vine will not break it over. Do not wait until the plants are too large before putting in the stakes. You will not injure the plants as much in handling them if you get at it early. String or cloth can be used to support the plant to the stake. Two and usually 3 or 4 ties will be needed as the plant develops to the height of the stake. An extra tying will help keep both the fruit and foliage off the ground.

Variety Makes a Difference

There is a wide variation in the amount of pruning that is practiced. At one extreme you find some growers who prune down to one stem. Other growers do not prune at all, or some only to 3 stems. The variety you are growing should make some difference in your pruning practice. Varieties that carry heavy setting ability usually are short of foliage. Do not prune this type at all since a heavy sunburn loss of fruit will result. We always have trouble when this type of plant is left on the ground and the heavy crop is exposed to the sun.

Our heavy-vined tomato varieties can be pruned down to a 3-stem system. To do this, you allow the main stem and the first 2 shoots or suckers that start close to the ground to remain on the plant. These shoots start, you will recall, at the junction of the leaf and the main stem. Early selection of the branches to be left is desirable so extra growth will not be wasted in parts to be pruned out later. I find many gardeners prune for a few weeks and then allow the plant to develop naturally after that. However, they still keep the plant supported to the stake.

My choice would be to stake the plants but prune little, if any; just enough per-

haps to make tying or supporting a little easier.

Too many good tomato plants during the early summer or soon after the fruit starts to set are injured by foliage diseases. If the early season is dry, we may not notice any foliage problem until fruit is well developed. However, if no early season protection is given the plants, watch them rather closely for any leaf-spot infections starting on the lower or older leaves. Periods of warm, wet weather will provide a good chance for trouble to start. If you have your tomatoes growing near where you grew them last year, you can expect some extra foliage trouble, especially if injury occurred last year. If an outbreak is noticed on the foliage, 2 to 4 applications of a spray or dust may be needed. Any delay in starting the treatment often permits severe defoliation. Your ability to notice the first outbreak of these diseases is important. Better yet, be equipped to do something about it.

Results Will Be Good

There are several materials that can be used to handle these foliage problems on tomatoes. Copper compounds including many trade-name products can be used with good results. Kopper King, Basi Cop and others are some of the more commonly available products. We think they are better to use than Bordeaux mixture. You will find them sold quite generally and your results in using them should be satisfactory. Many manufacturers now sell a combination material that will handle any insects as well as tomato diseases at the same time. Follow the manufacturer's directions given on the package in using them.

If you are not able to locate one of these trade-name, lime-free copper compounds, you can use Bordeaux mixture. Many stores now stock a ready-mixed material that only has to be dissolved in water to be used as a spray.

Do you remember that your early tomato blooms often fall off? When tomato plants first bloom, the evening temperatures may be too low for good pollination to result. Doctor Wittmer, of Michigan State College, and others have found that the use of a hormone spray on the blooms will not only speed up the growing season by causing fruit to set 2 weeks earlier, but also will increase the average size of the tomatoes. This is an added advantage with early maturing varieties since the fruit often averages small in size anyway on this type of plant. Work conducted here in the Department of Horticulture at Kansas State College, has shown good returns for this hormone spraying.

Use of hormone sprays for this pollination purpose requires hand labor since the spray should be confined to the flower clusters. A hand sprayer with a narrow spread may be used. The chemical to use, para-chlorophenoxyacetic acid, is available under various trade names. Ask your seed dealer or supply man about it. Materials of this type should be used only according to the manufacturer's directions since the concentrations vary in different products.

I think the use of this hormone spray will help the set during real hot weather, as well as during the early season.

Spring Dairy Shows Pick Winning Judges

REPORTS on district spring dairy shows held in Kansas to date indicate attendance has been high, and that the shows have been very successful. Here are the results of the Kansas Farmer judging contests in those shows reporting to date:

Ayrshires

SOUTH CENTRAL DISTRICT: William Hardy, Jr., Arkansas City, 1st; Edgar Tolles, Geuda Springs, 2nd; W. H. Hardy, Arkansas City, 3rd; M. B. Dusenbury, Corbin, 4th; Leon Payne, Winfield, 5th.

MID-KANSAS: Carl Friesen, Hillsboro, 1st; Victor Peters, Halstead, 2nd; Chester Unruh, Hillsboro, 3rd; P. H. Penner, Hillsboro, 4th; Alvin Penner, Hillsboro, 5th. Winners of the Junior Contest in the order placed were: Clayton Harms, Renald Wedal, Charles Rogers, Arlene Penner, Willie Penner, and Orris Voht. Pleasant 4-H Club,

Newton, won first in the junior team contests; El Dorado FFA, 2nd; Sedgwick 4-H, 3rd.

NORTH CENTRAL: Harry Tannehill, Broughton, 1st; Leslie White, Broughton, 2nd; Wesley Decker, Abilene, 3rd; Clarence Ainsworth, Elmo, 4th; W. C. Ainsworth, Elmo, 5th.

SOUTHEAST: Richard Wilson, 1st; Mrs. R. H. Kroenke, Hepler, 2nd; Edgar Kroenke, Walnut, 3rd; Royal Hendershot, 4th; A. F. Bolte, 5th.

NORTHEAST: Karl Scholz, Huron, 1st; Ray Scholz, Lancaster, 2nd; Mrs. John Keas, Effingham, 3rd; Don Alford, Lawrence, 4th; Mrs. Wayne Anderson, Ottawa, 5th.

Jersey

NORTHEAST: Dean Thorson, Horton, 1st; Ward Thorson, Horton, 2nd; Ray L. Stover, Robinson, 3rd; Fred

(Continued on Page 27)

NOW! GET A FARM HOIST



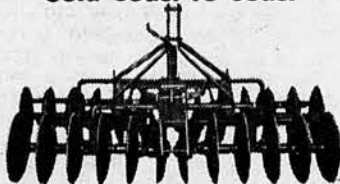
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SOUTHWEST: John S. Hoffman, Ensign, 1st; Mrs. John Garetson, Copeland, 2nd; Clarence Brown, Great Bend, 3rd; Frank T. Ellsaesser, Hugoton, 4th; H. R. Lucas, Macksville, 5th.

SOUTH CENTRAL: Marlow Ediger, Inman, 1st; P. H. Ediger, Inman, 2nd; Alfred Kaufman, McPherson, 3rd; H. M. Ediger, Inman, 4th; Albert Loewen, Hillsboro, 5th.

NORTHWEST: Mrs. E. L. Wolf, Quinter, 1st; Leroy Harvey, Hill City, 2nd; James F. Shea, Quinter, 3rd; Louis H. Berens, Collyer, 4th; Clarence Brown, Collyer, 5th.

NORTH CENTRAL: Charles Dalquest, Council Grove, 1st; George Babcock, Lindsborg, 2nd; Wilbur Sprecker, Leonardville, 3rd; Mrs. Harold Rohrer, Junction City, 4th; Elmer Schultes, Randolph, 5th.

NORTHEAST: Elmer Ketter, Neta-waka, 1st; Leon Gordon, Horton, 2nd; Mrs. Glenn Weaver, Hamlin, 3rd; Karl Eisler, Goff, 4th; Myrton Gordon, Horton, 5th.

SOUTHEAST: Mrs. Phil J. Hellwig, Oswego, 1st; Darlene Hellwig, Oswego, 2nd; C. R. Mace, Garnett, 3rd; Mrs. Robert Morarity, Pittsburg, 4th; Mrs. C. R. Mace, Garnett, 5th.

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NORTHWEST: Edmond E. Fellers, Hays, 1st; Tom McLaughlin, Phillipsburg, 2nd; Mary McLaughlin, Phillipsburg, 3rd; Kenneth Johnson, Phillipsburg, 4th; Alvin Denning, Ellis, 5th.

CENTRAL: Leo Schneider, Salina, 1st; Mrs. H. A. Meier, Abilene, 2nd; Merle Brehm, Hope, 3rd; Ed P. Ewert, Hillsboro, 4th; Mrs. E. A. Dawdy, Salina, 5th.

WEST CENTRAL: Mrs. T. Hobart McVay, Nickerson, 1st; R. L. Evans, Hutchinson, 2nd; W. G. Bircher, Ellsworth, 3rd; Richard Evans, Jr., Hutchinson, 4th; Hugh Bowman, Larned, 5th.

SOUTH CENTRAL: Dale Hughes, Waldron, 1st; Clifford Claar, Conway Springs, 2nd; Mrs. Wilbur Sloan, Cleveland, 3rd; M. A. Shultz, Pretty Prairie, 4th; Leo H. Hostetler, Harper, 5th.

ARK-VALLEY: M. W. Landes, Rose Hill, 1st; A. Roy Hopkins, Clearwater, 2nd; Mrs. Roy Hopkins, 3rd; Donald Hopkins, 4th; George Heersche, Mulvane, 5th.

NORTH CENTRAL: Edwin H. Ohlde, Linn, 1st; Earl Phillips, Manhattan, 2nd; Harlan Phillips, Denison, 3rd; Mrs. Harold C. Tuma, Narka, 4th; Bernard Fickel, Clay Center, 5th.

CAPITOL: R. G. Chamberlain, Topeka, 1st; Don Tice, Topeka, 2nd; Glenn Palmer, Topeka, 3rd; Robert Palmer, Topeka, 4th; Wayne Cole, Lyndon, 5th.

EAST CENTRAL: J. B. Wiggins, Lawrence, 1st; Robert R. Bigsby, Lawrence, 2nd; Otto Kanning, Lancaster, 3rd; Harold VanHorn, Pomona, 4th; Harold Schlagel, Olathe, 5th.

SOUTHEAST: Hadley Stronghorne, Iola, 1st; T. A. Church, Kincaid, 2nd; Claude Gray, Parsons, 3rd; Jake Sanders, Chanute, 4th; Mrs. Paul Fickel, Earleton, 5th; Paul Fickel, 6th.

NORTHEAST: G. R. Sewell, Sabetha, 1st; Herman Torkelson, Everest, 2nd; Oscar Torkelson, Hiawatha, 3rd; Albert Ackerman, Sabetha, 4th; Tonnes Torkelson, Hiawatha, and Paul Rottinghaus, Mercier, tied for 5th.

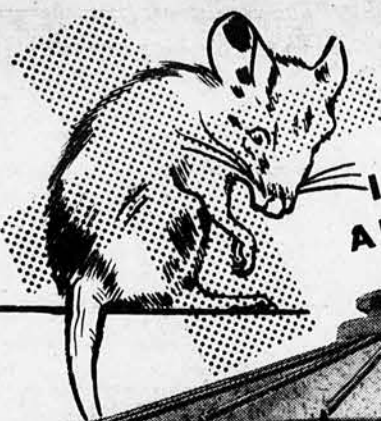
Lose a Friend

Frank J. Schaffer, of Pratt, a Master Farmer in the class of 1930, died in a Pratt hospital, May 8. Funeral services were held May 10 at the Sacred Heart church, in Pratt.

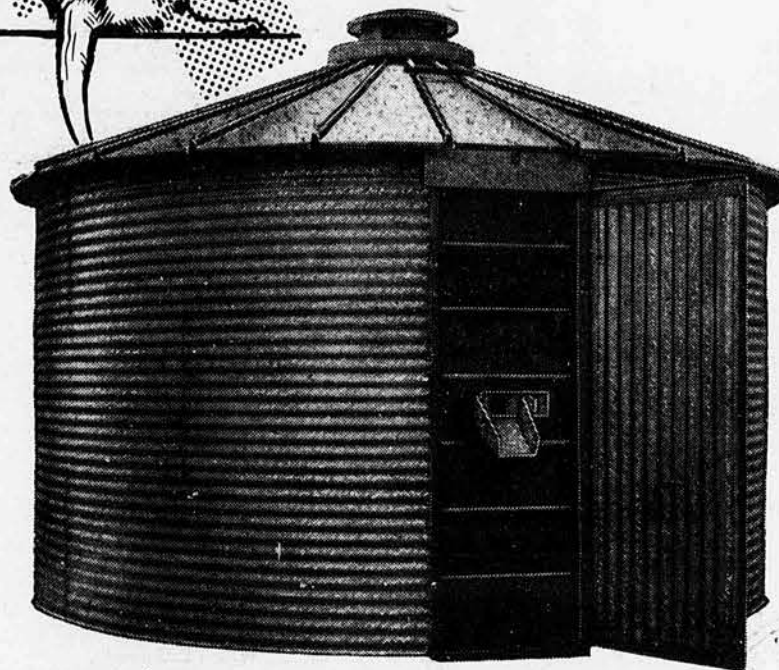
Mr. Schaffer quit the grocery business to become a farmer and was highly successful as a producer, specializing in dairying. For many years he was active in all farm, school and church programs.

Spring-Cleaning Hint

Window washing can be made much easier by adding denatured alcohol to the water, then wipe quickly with crushed tissue paper or paper towels. —Mrs. C. C.



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Hens React to Climate

Experiment Shows Controlled Conditions Change Performance of Layers

By T. B. AVERY, Kansas State College

TEMPERATURE, humidity and light influence a hen's performance. That is being shown thru an experiment which has been in progress at Kansas State College since 1942.

It has long been known that laying hens exhibit certain seasonal trends in the number and constitution of eggs laid, and in their own behavior and physiological reactions. Now this experiment casts light on specific results from these influences.

For the purpose of such a study, a separate laying house was constructed consisting of 3 rooms, each capable of housing 50 layers. The foundation stock, equipment, arrangement, and feed in the 3 rooms are the same.

The 3 environmental factors considered are temperature, humidity, and length of day. In Room 1, these 3 factors are allowed to fluctuate normally with the season. Room 2 is designed so that the temperature and humidity fluctuate with the season, but the birds are given equal periods of artificial daylight and darkness.

Room 3 is equipped so that the temperature is maintained uniformly throughout the year at 65° F. The moisture is maintained at 65 per cent relative humidity, and there are equal periods (12 hours) of artificial daylight and darkness. Special refrigeration and heating equipment make it possible to maintain constant temperatures in this room.

An experiment as closely controlled as this one lends itself well to the study of many different factors. Some of those studied are: Egg production, egg size, egg-shell thickness, molt, broodiness, mortality, body weight, blood and meat spots, feed consumption, hatchability of eggs, and calcium content of the blood. The results of this experiment are varied and interesting. It was shown that hens kept under the ideal environment in Room 3 laid only a few more total eggs during the year than did those in Rooms 1 and 2.

Didn't Go Into Slump

It was demonstrated, however, that hens in Room 3 did not go into a slump during periods of very hot or very cold weather, as did the other 2 rooms. They also laid more eggs during the fall months, but laid fewer eggs during the spring peak, a time when most hens lay at the highest rate.

There tended to be a rather consistent difference in egg size between the 3 rooms. Hens in Room 3 laid smaller eggs during the fall and winter months, but laid larger eggs during the summer months than did birds in the other 2 rooms.

Birds in Room 2 laid eggs that were intermediate in size between those of Room 3 and Room 1. The results of this phase of the experiment would indicate

that high summer temperatures cause hens to decrease the size of the eggs they lay, while winter temperatures tend to encourage hens to lay eggs of relatively large size.

It was also shown that eggs laid by the birds in Rooms 1 and 2 had thinner shells during hot weather than did those laid by the birds in Room 3. During the winter months, hens in Rooms 1 and 2 laid eggs with thicker shells than those in Room 3. The shell thickness varied a great deal with the season in the 2 uncontrolled pens, while it remained fairly constant in the controlled pen.

Molt has always been a problem, as hens normally molt at least once each year and usually stop laying until the molt is finished. This experiment has shown that hens kept in the uncontrolled room (Room 1) molted in the same manner that hens usually molt, while those birds kept under constant conditions delayed the molt until much later in the fall and did not molt as heavily. Birds in Room 2 were intermediate in their molt between those in Rooms 1 and 3.

Altho the normal time for hens to molt is in the fall following a year of laying, it is not unusual for very early hatched pullets to go into a fall molt.

The molt behavior of February-hatched pullets was studied and it was found that pullets in Room 1 did molt in the fall, while a very small per cent of those in Room 3 showed any fall molt. Again, hens in Room 2 were intermediate in their degrees of molt.

A Distinct Advantage

The fact that only a few hens kept under ideal conditions ceased egg production as a result of molt gives a distinct advantage over birds kept under normal conditions, as egg prices are highest during the fall months.

Altho mortality varied among the rooms from year to year, there appears to be no consistent difference by rooms so far as death loss is concerned. The tendency for birds to lay eggs with blood spots does not seem to be associated with environmental conditions but is closely related to the heredity of the individual. The eggs produced by hens in Room 3 consistently gave slightly better hatchability than the other 2.

This experiment, which has been in progress for the past 7 years, has supplied the "why" to many functions of the hen which were not well understood, and altho some phases of it are not of great practical value, others are.

Under farm conditions, extreme temperatures can be modified by the use of a straw loft in a poultry house. It is known that a properly constructed straw loft will maintain the inside of the house about 10° F. warmer in winter and 10° F. cooler in summer.

A New Salt for Livestock

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In some regions of the United States the soil, and therefore the pastures and other forage crops, are lacking in cobalt. Perhaps the pasture or hay is short that one tenth of one part cobalt for every one million parts of the ration that sets off "healthy" pastures from "sick" pastures.

Thus a Wisconsin sheep owner lost hundreds of sheep during a single season recently because, as was proved the following season, their feed was deficient in cobalt. They lost their appetite, lost weight, became anemic, and died. When one ounce of cobalt sulphate was added to 100 pounds salt, and the sheep were given free access to this salt, they quickly recovered from their deficiency disease. This same farmer after feeding cobalt, won a number of prizes with his sheep at the Green Bay livestock show, and sold all but 3 or 4 of his lambs at top market prices.

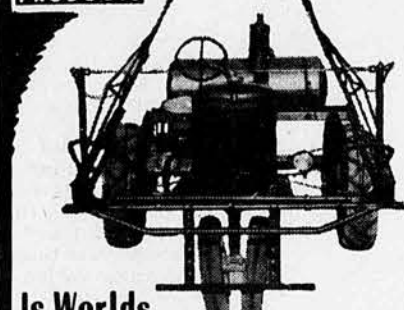
Since that time he and hundreds of his neighbors have been feeding trace mineralized salt, the kind that carries cobalt and the other 4 trace minerals,

iodine, manganese, copper, and iron, that protect livestock against the various trace mineral deficiencies. These are, in addition to the cobalt deficiency described, goiter or big neck in calves, lambs, and colts, or hairlessness in newborn pigs; poor bone development in growing animals; and anemia and still other afflictions like "falling disease," "licking disease," "neck ail," or "coast disease" in different classes of livestock.

The major minerals, calcium and phosphorus, may easily be supplied by legume forages like alfalfa and by grains and protein supplements, or also by bone meal and ground limestone. The minor elements on the other hand may most conveniently be supplied by way of trace mineralized salt.

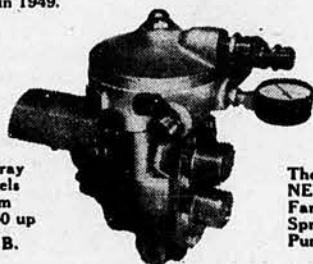
This new kind of salt is mixed with feed or is fed free choice to the farm animals like any other salt. It is recommended by livestock nutrition authorities to be used in the half-dozen trace mineral deficient regions of the United States. But considering its low cost, only slightly higher than plain salt, this trace mineralized salt is considered cheap insurance against trace mineral deficiencies in regions of the country that have not yet been definitely identified as deficiency areas.

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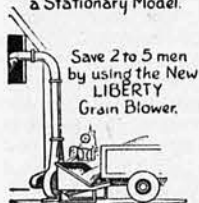
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Marketing Viewpoint

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

I am interested in buying some thin she-stuff to run on grass this summer. What do you think of such a deal?—L. W.

There is considerable risk in buying cattle this spring to sell off grass this fall. The risk is due to (1) a downward trend in business conditions which has been under way since last fall and (2) the unusually high level of replacement cattle prices compared to fat cattle prices. If the margin between fat cattle prices and replacement cattle prices is to return to normal, it is more likely to come from a sizable decline in replacement cattle prices rather than from a sizable advance in fat cattle prices.

What prices do you expect on corn for this month and June?—J. F.

Based on present and probable future conditions, corn prices are expected to advance slightly from present levels during the remainder of May and during June. Corn prices have a seasonal tendency to strengthen during this period. Present prices are substantially below the loan rate and producers will be reluctant to sell freely as remaining supplies are of good keeping quality and producers have until June 30 to take out a loan or purchase agreement. Country marketings also will be curtailed somewhat due to the rush of field work in the Corn Belt. For these reasons market receipts of corn are expected to decline in the near future.

While price advances are expected, substantial advances are not probable. Supplies of feed grains are large in relation to livestock numbers. Only trifling amounts of corn are being purchased for export and domestic demand is weak. Feed manufacturers and processors are extremely cautious in buying for future needs.

Does the British government intend to buy any cheese this year and if so, what effect will this have on Kansas milk prices?—C. K.

The British government, according to the best information available, does intend to buy cheese this year and has already made offers to buy. Some sources say they will buy as much cheese as they did in 1948. Their present buying operations have stimulated cheese prices and should tend to strengthen the general level of producer milk prices along with other purchase programs for butter and dry milk.

Plan 4-H Round-Up

Committees at Kansas State College, Manhattan, have made great plans for the twenty-fifth "silver anniversary" Kansas 4-H Club Round-up which will be held on the campus May 31 to June 4. The expected attendance for this all-state youth event will be around 1,150, about the same as last year.

"Since Round-up is scheduled between the close of the second semester and the opening of summer school, adequate housing and meal service will be available," states J. Harold Johnson, state club leader, at the college.

"Round-up county quotas have been distributed and the last of April saw the selection of delegates completed in most counties. County extension agents and council committees work on delegate selection. All Round-up registration was due in the State Club Office at Manhattan by May 7."

As usual about 150 additional boys and girls will be brought into the Round-up to provide program talent. They will be representative blue-ribbon winners at the district 4-H days, all of which were held last month. Announcement of the chosen play, model meetings, demonstrations, promotion activity winners, and musical numbers was made the week of April 25. No further competition is held at Manhattan, but each group or individual is given an opportunity to perform on the Round-up program.

The first state Round-up was held on the campus in 1923 and was attended by 255 persons. During World War II the event was not held for 2 years on the campus. In 1943, district meets were held and in 1945 it was canceled.

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Why not relieve yourself of the haunting fear you have, should one of your children be stricken with Polio. No one knows when or where it will take its toll this year. It strikes the young and old—the rich and poor alike. In the past, cases have been more frequent among children and adults in small towns and rural areas.

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Covers expenses for the treatment of Polio such as:

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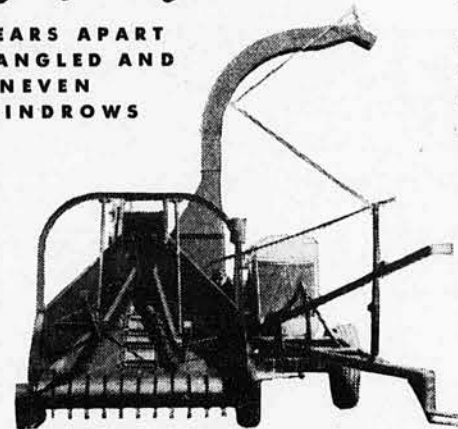
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Please send folders on Skyline ☐ Pick-Up Harvester, ☐ Row Crop Harvester, ☐ Portable Grinder, ☐ "Standard and Tilting" Blower. ☐ Name of nearest dealer.

NAME

STREET OR RFD

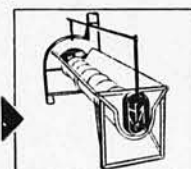
CITY AND STATE

A money-maker, the Skyline Pick-Up Harvester quickly pays for itself. All the newest features that make a harvester operate easily and work efficiently are built in the Skyline.

It is engineered to cut and shred grass and hay silage properly to insure better feeds. It is also designed to do an excellent job of chopping semi-cured and cured hay for dry feed with variation in cut length from 1/2" to 6 inches.

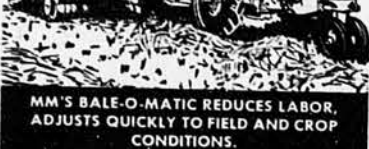
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The BALE-O-MATIC

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- ✓ Requires only tractor operator
- ✓ May be used as stationary baler

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COMBINATION
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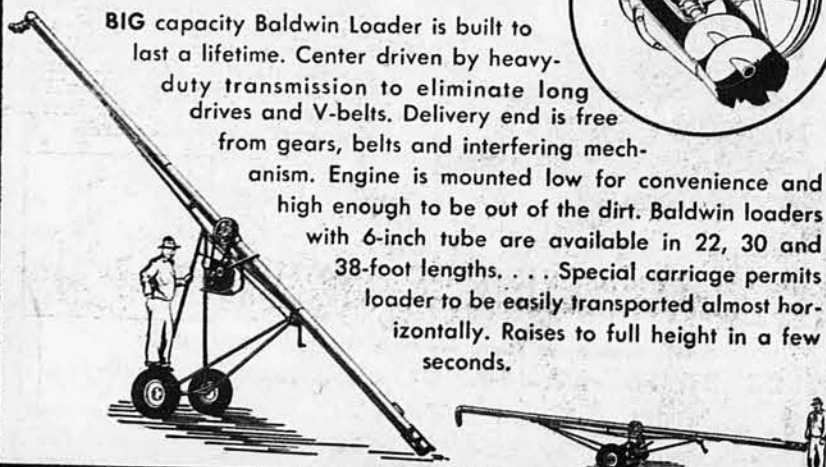
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How Was Your Spring Pig Crop?

(Continued from Page 4)



Pig brooders don't need to be fancy. John Vogel uses wooden barrels and suspends a 100-watt lamp bulb down thru the top. Pig brooders cut losses and the living pigs do better, breeders claim.

salt, of course, are always available.

The sow ration is reduced one-third to one-half about 5 days before farrowing. This practice also was followed by Mr. Bergsten. Over a 5-day period after farrowing the ration is gradually increased again.

John Vogel, Douglas county, varies slightly in his feeding program. His pigs came this year from February 15 to February 28. He fed the sows 4 or 5 pounds of grain daily and 1 pound of supplement, plus minerals and salt. The grain fed was half oats and half corn. The supplement was 18 per cent protein. Mr. Vogel takes all feed away from the sows the day before farrowing and gives them nothing but oats slop for 1½ to 2 days, then gradually

works them back again onto full feed.

All of these 3 breeders, who averaged 8 or more pigs a litter this spring, agree that exercise for the sow during gestation is very important. They all provide for this by giving the sows plenty of room for range, and by putting the water supply as far as possible from shelter so sows will have to walk from one to the other.

Two of the breeders, Mr. Bergsten and Mr. Vogel, use pig brooders at farrowing time in central houses. These 2 men thoroughly clean and disinfect the farrowing house and clean up the sows before bringing them in.

Both Mr. Bergsten and Mr. Vogel are high in praise of pig brooders. "Pigs

(Continued on Page 31)

GRANDMA . . . By Charles Kuhn



Electricity!

KOHLER

Electric Plants

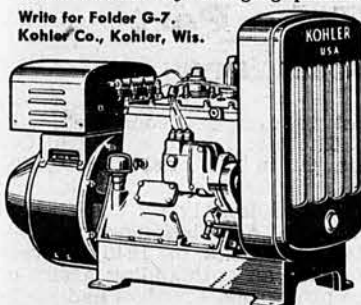
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Kohler Co., Kohler, Wis.



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just naturally do better when they are kept warm under a brooder," says Mr. Bergsten. "I find that the sows will always lie with their udders toward the brooders," reports Mr. Vogel. "This makes it safer for the pigs and apparently the sows get some benefit from the heat on their udders."

Mr. Vogel gives some credit for his luck with pigs to his open-type farrowing house, the only one of its kind we have seen. The house is open clear across the south side, with canvas drops being used in extreme weather. "I never have had any trouble with colds or flu in the herd with this house," he reports. Another advantage to the open-type house, he believes, is that it is easier to clean. The house has a slightly sloped concrete floor draining out onto a concrete feeding lot. All he has to do to clean out the house is use a hose and wash everything out. Any bulky bedding or droppings can be easily pushed out where it can be just as easily collected and hauled off. By being open on the south, the inside always is dry, too.

Guard Rails Important

Mr. Wahl uses individual farrowing houses and does not yet have brooders. "In my experience," he says, "guard rails are the most important item. I never lost a pig this year by crushing. Last year, without the guard rails, I lost 7."

If weather is severe at farrowing time, Mr. Wahl takes the pigs as they are dropped, dries them off well with a towel, and takes them to a box in the basement. Every 2 hours they are put with the sows for feeding. "The main thing in cold weather," he explains, "is to get the pigs dry immediately at birth." Mr. Wahl also cuts the tusks on his newborn pigs before putting them back with the sow. This is done so they cannot injure the sow's udder or hurt each other.

All 3 breeders find it good practice to move their sows and litters to clean ground as soon as possible—generally when pigs are about 2 weeks old. Mr. Wahl moves his farrowing lot each year, too, since he uses individual houses. He started last year at the bottom of a slope and each year moves up the slope a notch. Another trick he uses is a single-wire electric fence between each sow instead of using panels. "This works very well," he says, "and gives the sows a larger space in which to exercise."

Another point these breeders watch is not to let several sows and their litters run together too soon. Two sows and their litters can be turned together, they say, but they should be selected according to the size of pigs. Unless the pigs are all about the same size, the little fellows don't get enough to eat.

Plenty of Pasture

Pasture is another important point stressed by all 3 breeders. All provide plenty of good alfalfa pasture for the sows and their litters to run on and get them on pasture (if only for a short time) daily as soon as possible. Balbo rye for fall and winter pasture also are stressed. All 3 men use self-feeders on the range for the sows and pigs. Mr. Vogel goes a step further. He has installed lights in a feeding shed where a self-feeder is kept. "I was surprised to learn," he says, "that the pigs empty the feeder every night." He has marketed pigs at above 230 pounds at 6 months by night feeding.

Mr. Bergsten has one other step in his feeding program for the pigs. He gives them buttermilk for 2 months around weaning time as a conditioner.

Castrating and vaccinating of pigs are done at the proper time on all 3 farms. Because of the feeding and sanitation programs little trouble is had with disease.

Five Success Points

Summing up, we find that not one of these 3 breeders handles his hogs exactly like the others, yet all follow the same general ideas:

1. Careful feeding and handling of the sows during gestation and at farrowing time.
 2. A good sanitation and pasture program.
 3. Careful handling of the pigs at and immediately following farrowing.
 4. Seeing that pigs get a well-balanced diet and all they can eat thru self-feeding.
 5. Follow recommended practices on castrating and vaccinating.
- If you didn't have good luck with your pig crop this spring you may have fallen down on one of these 5 points.

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SPRINKLER SYSTEMS

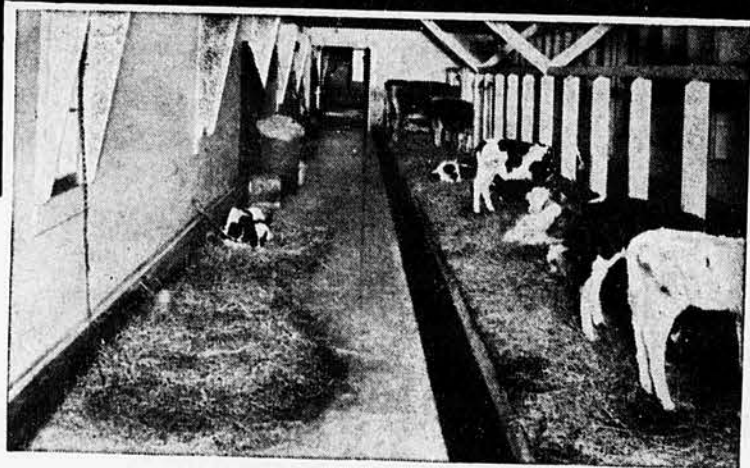


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72 bags of cement and 22 tons of sand and gravel . . .
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DEALER
INQUIRIES
INVITED

Mystery Disease Hits Beef Herd

By CHARLES HOWES

A MYSTERIOUS disease, cause and cure apparently unknown, has struck the entire herd of young Hereford beef on a feeding test at the University of Nebraska's experiment farm near Valentine. It has infected nearly every animal of the 160, killed 20 and is the object of nation-wide attention.

A clinic of veterinarians from Kansas, Nebraska and the U. S. Department of Agriculture tested the herd last week. In company with Will J. Miller, Kansas Livestock Sanitary Commissioner, the writer flew to Valentine last week to attend the clinic. The conclusions of the veterinarians will be published in Kansas Farmer in a later issue.

Temporarily, however, the disease was being diagnosed as an infectious variety of hyperkeratosis. It is characterized by tongue and skin lesions reminiscent of hoof-and-mouth disease but

with no evidence of hoof troubles. The 20 animals have died since the outbreak was detected in January. The others remain in stages varying from slight evidence to the final, slow stage of death by starvation.

It was thought at first, said Dr. E. P. Anderson, Nebraska State Veterinarian, that the disease might be the "X" disease which has developed in a few areas, including Kansas. The characteristics now apparent, however, fit those for hyperkeratosis, altho that disease has not been known to be infectious.

Dr. L. M. Roderick, pathologist at Kansas State College, Manhattan, and Dr. John Harris, head of TB work for the Kansas Livestock Sanitary Commission, were Kansans participating in the clinic. Valentine is in the heart of Nebraska's great sand hill pasture country, 10 miles from the South Dakota border and directly north of Oberlin, Kan.

Three Kansans Take Part In 1949 Duroc Congress

THREE Kansas men will have prominent roles in the 1949 National Duroc Congress to be held in Lincoln, Nebr., on July 29 and 30. Prof. C. E. Aubel, of the animal husbandry staff at Kansas State College, will serve on the important committee that will place the breeding classes of senior bred gilts and spring boars and gilts. Col. Bert Powell, Topeka, livestock representative with Capper Publications, will officiate as one of the main auctioneers in the National Duroc Congress sale which follows the show. Vern V. Albrecht, vice-president of the United Duroc Record Association, from Smith Center, is serving as a member of the committee on arrangements for the congress.

Fifth in a series of these national Duroc events, the 1949 congress will feature a type conference, barrow show, and show and sale of breeding stock from the leading Duroc herds thruout the United States. Altho the congresses have the primary purpose of standardizing Duroc type in various sections to best meet the needs of the commercial pork producer and the consumers, they have grown to be considered as major educational programs of

interest to everyone connected with swine. The last congress, held in Columbus, O., in 1947, drew over 1,000 people from 28 states and Canada.

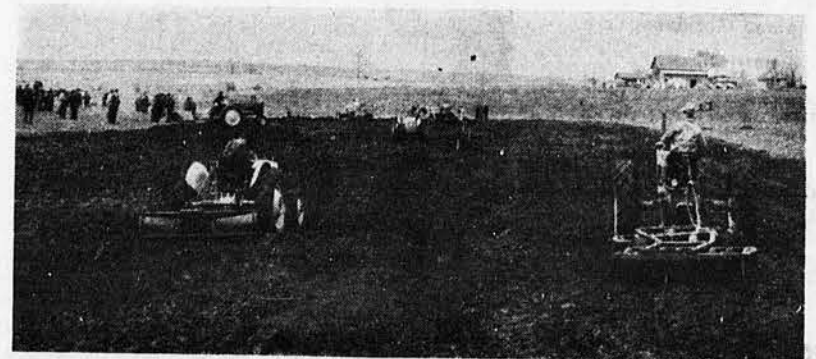
Sponsored jointly by the United Duroc Record Association and the University of Nebraska, the 1949 Congress will feature an outstanding group of college professors, breeders and packers on its committees, who will present a well-rounded program of interest not only to purebred breeders, commercial pork producers, and junior agricultural groups, but also to the ladies. Included in the program will be a special judging contest with prizes awarded in each group mentioned above, a baking contest featuring products made with lard, and a cooking school for the ladies.

In addition to the regular classes of breeding stock, there will be classes for light- and medium-weight barrows plus a special combination barrow class where placings on foot will count 50 per cent and the carcass rating will count 50 per cent. This latter class will be put on display in refrigerated show cases with half the carcass cut up into wholesale cuts and should furnish one of the most valuable lessons of the congress.

Do Quick Conservation Job

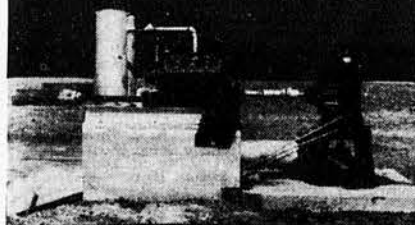


Machinery dealers used \$150,000 worth of machinery to complete a one-day soil-conservation job on 3 Shawnee county farms, April 19. Here, some of the equipment is shown filling a ditch preparatory to putting in a seeded waterway.



By afternoon the future waterway looked like this. Machines are doing the final job of smoothing out the waterway before it is seeded to brome and alfalfa. The area also will get 3 tons of lime an acre and 300 pounds of 5-10-5 fertilizer an acre. Water will be diverted from the outlet until grass is established.

HOW TO SAFEGUARD YOUR MOST VITAL "LIQUID ASSET"



You can't trust Nature too far. And when rainfall is "too little and too late"—as often happens—you'll get dependable, low-cost crop-protection with a Worthington Vertical Turbine Pump.

Water When and Where You Want It

Supply just the right amount of water at each stage of plant growth and you not only increase the yield but raise the quality of your crops. That's what a Worthington Vertical Turbine Pump does, with such high pumping efficiency and low maintenance costs that it soon pays for itself—especially at today's commodity prices. And besides being an important aid to bigger, more valuable crops, it is a constant safeguard against the unpredictable disaster of drought.

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DS-2

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MANUFACTURERS
OF PUMPS**

Labor Gains

(Continued from Page 5)

The 3 states with the biggest overturn—in favor of Labor—were: Pennsylvania, with 4 votes to sustain the veto in 1948, 17 votes against Wood bill in 1949; Missouri, 2 votes to sustain in 1948, 12 votes against Wood bill in 1949; Ohio, 4 votes to sustain in 1948, 13 against Wood bill in 1949.

The Brannan program to provide "parity income"—in place of percentage parity prices—for farmers, and at the same time give city consumers low-priced foods, is expected also to play a big part in congressional elections in rural districts in 1950. If Congress enacts it into law before the 1950 campaign, it will be greatly to the credit of the Administration. If Congress fails to enact it, then it will mean that members who did not support it will have to be defeated and replaced by friends of the people.

State Department has a new worry. If the Russian shift in strategy—symbolized by advocating peace by peaceful conferences—lasts into summer, then the Administration will have no "crisis" demanding Congress enact Administration programs at once, as part of the effort to "contain" Russia. This applies not only to the Atlantic Pact, but also especially to appropriation bills.

Falling prices that hit Agriculture in late January of 1948 have reached most other lines of business activity by now—automobiles and steel being notable exceptions. Actually, falling prices have hit steel, in that most fabricators now can get steel at established prices, instead of having to go into the gray market and pay premiums.

One result has been a marked falling off in government tax receipts. Now looks as if the deficit at the close of this fiscal year, June 30, will be well over a billion dollars, possibly close to \$1,500,000,000.

Even the boxcar shortage is said to be passing out of the picture, altho it probably won't look like it when the wheat-harvest rush is on.

However, the 1949 block against early shipments of what may be another near-record wheat crop is said to be shortage of storage space in terminal elevators from the Mississippi west.

Roughly, these terminal elevators right now are two-thirds full of government (Commodity Credit Corporation) owned wheat. Grain trade is insisting that the CCC move its wheat to eastern points ahead of the wheat-harvest rush. Otherwise, the grain trade says, embargoes will have to be slapped on at Kansas City and other markets within a comparatively few days after the rush begins.

Anyway, the American Railway Car Institute announces that the backlog of freight-car orders has been pretty well cut into. In all, 10,587 freight cars were delivered in April, but orders were received for only 30 new cars.

The backlog of orders May 1 was 62,569, as compared with 134,676 a year ago that date. April, the Institute says, probably was the last month that as many as 10,000 cars will be delivered in one month.

As shrewd an observer as Wayne Darrow, in his May 7 Washington Farm Letter, gives it as his opinion that the essential features of Secretary of Agriculture Brannan's income-support program will be enacted into law during the 1950 session of Congress; lack of time preventing action now.

That the "trial" run on hogs—providing direct payments to producers as well as purchases—will be approved before this session adjourns is regarded as a strong possibility in Washington circles.

Senate Committee on Agriculture seems to be more hostile to the Brannan program than the House committee. If the Senate committee sits tight, the Aiken-Hope Act will go into effect the first of the year.

Supporters of the Brannan plan, if they become convinced they cannot get favorable action this session, probably will try for a "stop-gap" 1950 price-support program, with a postponement of the effective date of the Hope-Aiken "flexible support" program for another year. That will give an opportunity to push the Brannan program next spring and summer, in advance of the 1950 Congressional elections.

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Jayhawk**

**FIELD
SPRAYER**



JAYHAWK control panel gives 9-way control within arm reach of tractor seat

Universal Hitch.
Direct Power Take-off Drive.
1" (not 1/2") Bronze Gear Pump.
Wide Angle Spray Coverage.
Oversize Suction and Line Strainers.

THE MACHINE WITH ALL THE FEATURES FARM SPRAYING EXPERTS ASKED FOR

Practical farmers, agricultural engineers, weed and insect control experts all were called on to help design the JAYHAWK Field Sprayer. Every feature they asked for, and many more, are built into this simplified, easily operated low cost machine. Included are:

Self Aligning Boom Hinges.
Adjustable Spraying height, 8" to 44".
Senior Size 100 Monel Twill Mesh Nozzles with built-in Check Valves.

Flexible Nozzle Extensions for Row Crop Spraying.

Hand Boom for Tree, Livestock, Garden Spray.

Price only \$210, Freight prepaid, Write today

AVOID GRAIN DETERIORATION...

SAVE LABOR WITH

THE FAMOUS
FLEXODRIVE
(Pat. Pend.)

BAZOOKA

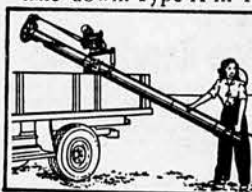
**SPIRAL GRAIN
LOADER**

Sectional Tube Construction

Improved Flexible Shaft Drive

Engine Mounted LOW Where You Can Control It.

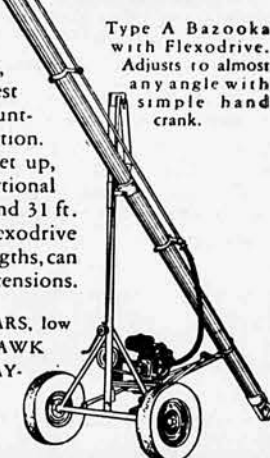
The improved 1949 Bazooka moves grains, mixed feeds, cement, other materials quickly in large volume at lowest possible cost. Powerful Flexodrive, with LOW engine mounting, permits easy and quick control. Heavier construction. Equipped with high speed bearings. Easier to transport, set up, take down. Type A in 16 ft. basic unit with 5 and 10 ft. sectional extensions to make 21, 26, and 31 ft. units. Also Type B, without Flexodrive and Carrier, 11 and 16 ft. basic lengths, can be lengthened with sectional extensions.



Type B Bazooka, without Flexodrive and Carrier. Sectional tube construction with swivel bracket to fit on truck or trailer.

FREE ILLUSTRATED CIRCULARS, low prices by return mail. Also JAYHAWK Hydraulic Loader and Automatic JAYHAWK, stacker, sweeprake, wagon loader all in one machine.

WRITE TODAY



Type A Bazooka with Flexodrive. Adjusts to almost any angle with simple hand crank.

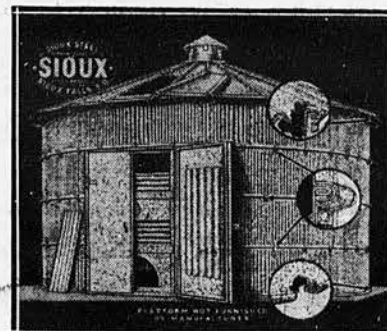
THE WYATT MFG. CO., Inc.

Jayhawk Farm Implements Since 1903
784 5th St., Salina, Kansas

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Store Your Valuable Grain in a -SIOUX- Steel Storage Bin; Limited Supply — Order Today!

-SIOUX- Steel Storage Bins are a farm investment that pays BIG dividends—and pays them in a hurry! Harvest-time market changes can bite deep into your grain profits if you don't have your own adequate storage facilities. Storing your grain in a -SIOUX- Steel Storage Bin is like putting money in the bank—you're sure of safe, adequate storage, and higher grain prices will soon pay for your -SIOUX- Steel Bins. Forget about freight car shortages, lack of elevator space, and changing market conditions! Don't sacrifice your crop because you don't have adequate storage facilities! See the fire-proof, rodent-proof, easily erected -SIOUX- Steel Storage Bins at your nearest -SIOUX- dealers. If you do not know your dealer's name, send coupon today!



Superior Because:

1. Six-Ply 1 1/2" ribs every 22 1/2" of height!
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3. Sturdy corrugated walls!
4. Water-tight roof!
5. Extra large ventilator!
6. Extra wide double door!

**The -SIOUX- Steel Co., Dept. KF-3
Sioux Falls, S. D.**

Please RUSH name of nearest dealer, plus illustrated literature and prices.

NAME

ADDRESS

Classified Advertising Department

Order DeFOREST "BLUEBLOOD" CHICKS

U. S. APPROVED PULLORUM CONTROLLED
Producing "Blueblood Strain" Austra-White, Leg-Shire and White-Hamp Hybrids; Big Leghorns, New Hamps, White Rocks. Livability guarantee 95% to 3 weeks. Write for folder and price list.

DeFOREST HATCHERY and POULTRY FARM Dept. KF
Peabody or Junction City, Kan.

KANSAS FARMER Classified Advertising

WORD RATE
10c per word each issue.
Minimum—12 words.
Names and addresses are part of ad, thus are billed at per-word rate.

Livestock Ads Not Sold on a Per-Word Basis

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Cuts and borders are permitted only in Poultry, Baby Chicks, Livestock and Pet Stock Ads. Write for special display requirements.

BABY CHICKS

25 EXTRA CHICKS 1¢

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.

Group	Str. Hatch	Males	Pullets
Austra Whites	\$12.90	\$4.90	\$25.80
Minorca-Leghorns	\$11.90	\$2.90	\$23.80
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M. H. Reds, Barred Whites, Buff Rocks, Wyandottes, S. C. Reds	\$11.90	\$11.90	\$13.90
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Mixed Heavies, No Sex Guarantee, 100	\$6.90	Light Breed Males	\$3.90
Group 2—2¢ higher	10 extra chicks 1¢ with each 100		
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SCOTT HAYES CHICKS

Dept. 139 Omaha Nebraska

COOMBS CHICKS

The Kind You Need for High Egg Production

WHITE LEGHORN chicks from real trapnest ROP farm. 250-322 eggs sized for 28 years back. Bred for high livability.

AUSTRIA-WHITE chicks from high egg ROP breeding both sides of family. High speed layers. Very vigorous.

HY-LINE CHICKS. Bred like hybrid corn. Lay 2 to 6 dozen more eggs per bird than ordinary farm chickens.

J. O. COOMBS & SON
Box 6 Sedgwick, Kan.



FREE CIRCULAR
Get complete facts free on Coombs Chicks, improved methods, poultry breeding. Write today.

RUPP'S STARTED PULLETS

from flocks with 45 years of scientific breeding. Send for full information.
MRS. CARRIE I. RUPP'S POULTRY FARM
Box 1504 Ottawa, Kansas

High Quality Baby Chicks

Order now. Fifteen breeds to choose from. Write for price list.
BARTON HATCHERY, Burlington, Kan.

CHICKS AND TURKEY POULTS

U. S. Approved. Pullorum Controlled. Both chicks and poulters are from U. S. R.O.P. bloodlines and based on quality. Careful consideration given to our customers.

Shawnee Hatchery, Phone 2-2159, Topeka, Kan.

Hy-Line Chicks. New kind bred like hybrid corn. Available for May, June delivery. Hy-Line flocks lay well regardless of date hatched. Hy-Lines laid 2 to 6 dozen more eggs per bird than standard breeds against which they were tested. Both tested on 115 different farms. In Iowa demonstration flocks. Hy-Lines averaged 247 eggs per bird per year. Best standard breed averaged 179 eggs. Hy-Lines produced each dozen eggs with two pounds less feed. Try Hy-Line chicks. This is your opportunity. Learn what this new chicken will do for you. Free catalog. Write today: Coombs & Son, Box 6, Sedgwick, Kansas.

Bush's Bloodtested Barred, White Rocks, Reds, Wyandottes, Hampshires, \$8.95; pullets, \$14.95; cockerels, \$10.95; White Leghorns, Austra-Whites, \$8.95; pullets, \$14.95; Heavy Assorted, \$8.45; Mixed, \$7.95; Leftover, \$6.95; Barnyard Special, \$5.95; Table Assorted, \$4.95. FOB. 100% alive. Catalog. Other breeds, grades, prices. Bush Hatchery, Clinton, Mo.

Thompson—Quality, bloodtested White, Barred Rocks, Reds, Wyandottes, Hampshires, \$8.95; pullets, \$12.95; cockerels, \$9.95; Anconas, Minorsas, White, Brown Leghorns, Austra-Whites, \$8.95; pullets, \$14.95; Assorted Heavies, \$7.95; Mixed Assorted, \$6.95; Leftovers, \$5.95; Barnyard Special, \$4.95. 100% alive FOB. Thompson Chicks, Springfield, Mo.

Baby Chicks, 10 Breeds, Surplus Pullets, \$12.95; Assorted Heavies, \$6.85; Mixed Assorted, \$6.45; Leftovers, \$4.95; Barnyard Special, \$3.95; Odds-ends, \$2.95. 100% alive. FOB. Send money order. Clinton Chick Store, Clinton, Mo.

Chick Sale—Immediate shipments, unsexed. Austra-Whites, \$10.90. White Rocks, \$10.45. Leghorns, \$9.90. Heavy Assorted, \$8.90. COD plus postage. Hawk Hatcheries, Atchison, Kan.

When you order DeForest "Blueblood" Chicks, you order the finest that money can buy. Send for free literature today. DeForest Hatcheries, Box A, Peabody, Kan.

Hawk's Surplus Chicks—\$4.90 per 100 delivered; cash with order; no guarantee as to sex or color; quick shipments. Hawk Farms, Atchison, Kan.

Baby Chicks Pullorum tested. Production bred. White Leghorns, 3 hybrids, 6 heavy breeds. Tudor's Hatchery, 2014 North Central, Topeka, Kan.

Free Chick Guide . . . A valuable help in selecting better egg and meat bred chicks. Sent free! Write Chas. M. Estes, Dept. 13, Springfield, Mo.

DUCKS AND GESE

Geese, Goslings, Goose eggs (all varieties). Safe delivery anywhere. Bulletins on raising geese. We buy purebred geese and eggs. Peyton Goose Hatchery, Route 2CK, Duluth, Minnesota.

TURKEYS

Turkey Poults—Amazing profits with Hamilton Strain super-broad breasts. Growers report 18-pound hens, 28-pound toms at 5½ months. Make 1949 your banner year—raise these super broad breasts extra profits. Also Wagon Wheel Strain broad breasts. White Hollands and all other breeds. Poults available for immediate and future delivery. Write Zealand Hatchery, Zealand, Mich.

POULTRY—MISCELLANEOUS

Peafowl, Pheasants, Bantams, Waterfowl, 30 varieties Pigeons. Free circular. John Hass, Bettendorf, Iowa.

EDUCATIONAL

AUCTION SCHOOL Learn America's Leading Auctioneers Teach You. Students sell actual sales. Largest school in world. 14 years in operation. Don't be misled. Term soon. Free catalog. Write **REISCH AUCTION SCHOOL**, Mason City, Iowa

Learn Auctioneering! Col. Nelson can teach you to become a Successful Auctioneer by spare time Home Study Course or at the Resident School in Willmar, Minnesota. Term soon. Write for details today. Nelson's School of Auctioneering. Home Office: Renville, Minnesota.

Make Up to \$30-40 Week as a Trained Practical Nurse! Learn quickly at home. Booklet free. Chicago School of Nursing, Dept. F-5, Chicago.

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3c Deckledge Reprints 3c

Beautiful Velox Deckledge prints made from your negatives only 3c each. 6 or 8 Exposure rolls developed and printed on deckledge paper 25c. Arterraft Deluxe enlargements three 5x7 only 50c. Four 8x10 enlargements from negatives \$1.00. Your favorite photo copied and 10 printed made 65c.

SUMMERS STUDIO, Unionville, Mo.

16 Enlarged, Jumbo, oversize deckled prints from any 6-8-12-16-20 or 36 exposure roll film developed only 35c and this ad. Electronically exposed. Enlargement coupon free. Skrudland, 6444-H Diversey, Chicago.

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Three Prints Each 8-exposure roll 40c. Two each 35c. One each 25c. Reprints 3c. L. V. Eastman, Bode, Iowa.

MACHINERY AND PARTS

Farrar V-Pulleys 6 to 30-inch diameter and V-Belt conversion drives for International 125SP, 125BP, 122; Case A6, A, B, C, H, M, K, P, QRS; Holt-Caterpillar 34, 36; drives for John Deere 17, 6A, 5; Engine drive for M-M Jr., G2, G3, G4. Avoid breakdowns, lost time; reduce vibration; save repair costs. Directions for installing. Write for free descriptive literature for your machine. Farrar Machine Shop, 111 Main, Norwich, Kan.

New and Used Tractor Parts. Write for big, free 1949 catalogue; tremendous savings. Satisfaction guaranteed. Central Tractor Wrecking Co., Des Moines 3, Iowa.

Richman's Grain Elevators, Blower and Auger-Type. Poorman's price \$130 up. Immediate shipment. Write for free circulars. Link Mfg. Co., Fargo, N. D.

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WHITE HOUSE PAINT

Guaranteed unconditionally 3 years. Pure linseed oil and white lead. A \$5.49 value. Mail orders filled. Limit 25 gallons per customer. \$3.88 per gal. in 5's

Moore's Farm Store, 7 West B, Hutchinson, Kan.

Mr. Farmer: Convert your hand mower to power mower and snowplow with Handy-Dandy Lawn Mower Conversion Kit. Installed on mower in 3 hours, snowplow converts in minutes. Used with any small gasoline or electric motor. (Lauson or Briggs engines, Pennsylvania mowers in stock. Immediate delivery.) Kits available with dealers wanted. LeClaire Manufacturing Co., Dept. KF, LeClaire, Iowa.

Paint—Outside Snow White Titanium lead and oil. Money-back guarantee not to peel, rub or wash off or turn yellow. \$2.25 gal. in 5-gal. cans. Sample can—50c. Snow-White Paint Co., 1430 N. Dearborn, Chicago, Ill.

Quality Tarpaulls. All sizes. Right prices. Catalog free. Hudson Machinery Co., Los Angeles, 27, Calif.

AUTOMOTIVE

Surplus Tires, Tubes and Wheels with stub axles. Implement dealers, Welders, Blacksmiths. Write for free illustrated catalog. Harro Tire and Rubber Corporation, 804 Hammond Building, Dept. C, Detroit 26, Mich.

Welder 150 Ampere \$47.50. Water Pumps 300 G.P.H. \$12.75. Fans 32 volt 2 speeds, \$3.75. Butler, 1855 Milwaukee, Chicago.

MACHINERY WANTED

Wanted—Used #62 McCormick-Deering Combines with Motors. Must be priced right. Bridgeport Equipment Co., Inc., Bridgeport, Nebraska.

ELECTRICAL EQUIPMENT

Light Plants
Complete stock of parts for Delco-Witte-Onan-Waukesha-Fairbanks Morse & US Motors.
Carlson Machine & Electric
5409 No. Broadway Wichita, Kan.

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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.

DOGS

English Shepherd: Puppies. Breeder for 22 years. Shipped on approval. 10c for pictures and description. H. W. Chestnut, Chanute, Kan.

English Shepherd Puppies, Spayed females. Older working dogs. E. Barnes, Collyer, Kan.

Registered Black, one spotted, cocker spaniel puppies. Harvey Allen, Sabetha, Kan.

Shepherds, Collies, Heelers, Watch Dogs. Zimmerman Farms, Flanagan, Illinois.

Rat Terrier Puppies. Bred for ratters. Crusaders Kennels, Stafford, Kan.

AGENTS AND SALESMEN

Agents Wanted: Make money and satisfied customers. Buy, sell and install lightning rods. Millions of farm buildings now protected. Write for Agents proposition. Reliance Company, Box 530, Sycamore, Ill.

MUSICAL INSTRUMENTS

Safe Place to Buy a piano. Bennett Music House. 40 years in Wichita, quality and price, you get both. Liberal trade-in for old piano. Famous make Spinets \$495.00 to \$1,000.00. Come to Wichita or write Bennett's—free catalog.

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Latest Methods treating Piles, Fistula, Colon-Stomach disorders. Write for free book. McCleary Clinic and Hospital, E540 Excelsior Springs, Mo.

Sick! Herbs for Health. Free book. Write Woodland Herbs, Bay Port 9, Mich.

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Sizes 38 to 52—Better Dresses, Suits, Blouses. Lingerie, economy-priced, in slendering new styles! Write for free catalog. Royalty, Inc. Dept. KF4, 118 East 28th St., New York 16, N. Y.

Quilt Pieces—You'll love them! Fast color prints, percale, broadcloth. Patterns free with order for 500 pieces \$1.00; 100 pieces 25c. Wollard's Remnants, Box 268C, Newark, Ohio.

Eastside Maternity—Seclusion Hospital for unmarried girls. State licensed. Working reduces expenses. 4911 E. 27th, Kansas City, Mo.

Send Raw Wool direct to factory for fine blankets, robes, saddle blankets. Free booklet. West Texas Woolen Mills, 21, Eldorado, Texas.

At Last! A Perfect stocking mender. Reknits runs without thread. \$1.00 with illustrated directions. Run Mender Co., Pewaukee 3, Wisc.

FARMS—KANSAS

148 Acre Creek-Bordered Farm \$1,000 down, balance \$3,950 easy terms. 7-room house, 36x46 barn, other buildings. Close to electricity, phone line, mail and school bus route. ½ in cultivation, balance woodland pasture. Red hot estate settlement bargain! \$4,850. Dean Peterson, Osage City, Kansas. Phone 151.

FARMS—MISCELLANEOUS

Equipped, Crops Included . . . well-fenced south-eastern Kansas quarter section, within ½ mile grade school, only few minutes depot town, equipped with 5 cows, bull, calf, saddle pony. Farmall tractor, growing crops, complete at \$10,900! 105 acres cultivated, pond and well in pasture; 6-room house, rather poor 40x40 barn, good 16x40 hen house, 14-ft. smokehouse, garage, good farming start at \$10,900, complete, half down, 50% possession. Details big free Summer catalog many states. United Farm Agency, 428-KF BMA Bldg., Kansas City 8, Mo.

Strout's Farm Catalog! Time and Money-Saver. Free! Describes 2790 Bargains—eqpd. and uneqpd. dairy, beef, grain, alfalfa, truck, fruit, poultry farms. 35 State Coast-to-Coast. Write now for your Free copy! Strout Realty, 20 West 9th St., Kansas City 6, Mo.

320 Acres Yuma County, Colo. Improved stock-grain farm, 160 acres under cultivation. Price \$16,000. Easy terms or sell on contract. Louis Miller, Frankfort, Ind.

West's New Time and Money Saving Catalogue, over 1,000 Farm and Business Bargains. Free. West's Farm Agency, C-2, Pittsburgh 17, Pa.

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.

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

Printing at Reasonable Prices. Free advertising suggestions. Mail your requirements for Quotation. Quality Fast Delivery. Winchester Printing Company, Grand Rapids, Michigan.

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

Unpainted Figurines. Beautiful models. Smooth, hard plaster. Reasonable prices. Illustrated list Free! Oman, 642E Broadway, St. Paul 1, Minn.

SEEDS

Special Offering: Fancy Alfalfa seed per 100 lbs. \$45.00; Choice, \$40.00. Red Clover, \$38.00. Sweet Clover, Choice, \$15.00; Fancy, \$18.00. White, \$20.00. Lespedeza, \$8.00. Brome Grass, \$22.00. Achenbach, \$36.00. Orange Cane, \$4.00. Millet, \$6.00. Sample free. Hayes Seed House, Topeka, Kan.

Buffalo Grass Seed—Treated, Pastures and lawns. 1 lb. 1,000 sq. ft. for lawns, \$1.25 lb. Quantity discount. Mike Bird, Hays, Kan.

FERTILIZER

Colloidal Phosphate has the trace minerals needed by man and livestock. When applied at 1,000 lbs. per acre will return you \$10 for each \$1 spent. Will show in 15 to 20 days on house plants. Write for free samples. Hoover Soil Service, Gilman, Ill. Dealers wanted all states.

June 4
Will Be Our Next Issue
Ads for the Classified and Livestock Section must be in our hands by
Saturday, May 28
If your ad is late, send it in Special Delivery to 912 Kansas Ave.

KANSAS CERTIFIED SEEDS

CERTIFIED SEEDS

Westland Milo and Norkan Cane
F. E. HARNDON, Liberal, Kan.

CERTIFIED ELLIS SORGO

The new White seeded, sweet stalked, earlier maturing Atlas Leto, Red Cross. Germination 93%. Purity 99.40%, 7c per pound sacked.

NILES C. ENDSLEY, Alton, Kan.

Certified Atlas Sorgo—bred for sweet stalk, \$7.00 per cwt.; K-1585 and K-2234 hybrid corn. Trunka 27 hybrid and combine Black-hull kafir, C. C. Cunningham & Sons, El Dorado, Kan.

Pure Atlas Sorgo Seed. Germination 91%. Price 7 cents per pound. Special rate on orders of 1,000 pounds or more. T. Max Reitz, Belle Plaine, Kan.

Kansas Certified Pure Ellis Seed, the new white seeded sweet sorghum forage feed. 80% germination, 7½c per pound F.O.B. Downs. Wm. C. Robinson, Jr., Downs, Kan.

Certified Atlas Sorgo, germination 94%, \$6.50 per cwt. Pure Texas Sweet Sudan, 89% germination, \$10.00. Walter Peirce, R-2, Hutchinson, Kansas.

Certified Westland Milo—Germination 96%. Purity 99.50%, \$4.00 cwt. Keith Jones, Reno County, Penasola, Kansas.

Pure Certified Axtell Sorgo Seed. Germination 86%, \$5.00 per cwt. Lots of 10 bags at \$4.00. Louis Osborn, Bison, Kan.

Certified Westland Milo. Germination 94%. Purity 98.56%, \$5.00 per cwt. L. B. Wendelburg, Stafford, Kansas.

Kansas Certified Atlas Sorgo. Germination 93%. Purity 99.50%, \$7.00 per cwt. R. E. Thomas, Humboldt, Kan.

Certified Coes Milo. Germination 89%. Purity 98.78%, \$7 per hundred. Clarence Busse, Bird City, Kan.

Combine White Kafir 44-14, 5c per pound. Certified Atlas Sorgo, 6c. F. J. Raleigh, Clyde, Kan.

Certified Ladak Alfalfa Seed. \$85.00 per hundred. Mrs. Agnes M. Ellison, Fowler, Kan.

PLANTS AND NURSERY STOCK

Nancy Hall Porto Rico SWEET POTATO PLANTS

Millions now ready for prompt shipment.

Pay When Received

300	\$0.90
500	1.20
1,000	1.75

Sunshine Plant Farm, Sharon, Tenn.

For Sale Sweet Potato Plants

Best quality Porto Rican, Improved Nancy Hall, Big stemmed, well rooted, good cut.

200	\$1.00	500	\$1.25
1,000	2.25	5,000	11.00
	10,000		\$21.00

D. & C. Plant Co., Gleason, Tenn.

Vegetable Plants—Large, well rooted, hand selected, roots mossed. Tomatoes—Earlana, John Baer, Marglobe, Bonny Best, Rutgers, Stone, 200-75c; 300-1.00; 500-1.25; 1,000-2.25. Cabbage—Wakelands, Dutch, Copenhagen, 200-75c; 300-1.00; 500-1.25; 1,000-2.25. Onions—Bermudas, Sweet Spanish, 500-85c; 1,000-1.50. Pepper—California Wonder, Chinese Giant, 100-50c; 300-1.00; 500-1.50; 1,000-2.50. Sweet Potato—Porto Rico, Nancy Hall, Red Velvet, 100-60c; 200-1.00; 500-1.75; 1,000-3.00. All Postpaid. Satisfaction guaranteed. Culver Plant Farms, Mt. Pleasant, Texas.

Strawberry Plants—Giant Robinson, Blakemore, 1,000-3.50. Klondike 100-1.00, 500-4.50, 1,000-8.50. Mastodon and Gem everbearing large thrifty plants will bear this year 25-30. 100-2.50. Genuine Streamliner 25-30. 100-3.50. Thornless Boysenberries 25-30. Eldorado Blackberries 25-30. Latham or St. Regis red raspberries 25-30. Cumberland Black cap 25-30. 2 year Concord or Fredonia grapes 10-15. Special offer—25 asparagus, 6 rhubarb, and 100 strawberry plants \$2.00. Everything postpaid. Catalog free. Ideal Fruit Farm, Stillwell, Okla.

Strawberry Plants—Hardy northern grown, double inspected Dunlap, Aroma, Blakemore 200-3.00; 500-4.50; 1,000-8.50. Premier, Bellmar, Giant Robinson 200-2.50; 500-4.50; 1,000-11.00. Giant Gem, Streamliner or Minnesota 1166 everbearing 100-3.25; 500-10.00. 20 Mammoth Rhubarb \$1.00. 10 Concord Grapes \$1.00. Fresh plants. Prompt shipment. Everything postpaid. Iowa Nursery, Farmington, Iowa.

Sweet Potato Plants—Improved and Straight Porto Rico, Red Velvet, and Jersey. Certified true to variety. Tough, well rooted, grown in the open on new ground. 300-1.25; 500-1.75; 1,000-2.50; 5,000-11.50; 10,000-21.50. All prepaid. Larger orders \$2.00 per 1,000. FOB. Keller's Sweet Potato Storage, Ardmore, Okla.

Plants: Tomatoes—Rutgers; Potatoes—Porto Ricos, Nancy Halls, Red Velvets, Bunch Porto Ricos; Cabbage—Charleston; 400-1.40; 1,000-3.00; 3,000-8.40, postpaid. Satisfaction guaranteed. Bruce Rhodes, Malvern, Ark.

Coming Events

May 21—Barton county, Walnut Hill Herford Ranch Field Day, (2N, 1W) Great Bend.
 May 22—4-H Sunday.
 May 22—Barton county, Rural Life Observance Sunday with special Barton county program, Lake Barton.
 May 23—Johnson county soil tour, Walter Selby and L. E. Willoughby, leaders.
 May 23—Lyon county horticulture meeting, W. G. Amstein, Extension specialist, leader.
 May 23—Scott county garden tour, Claude King, Extension plant pathologist, leader.
 May 23—Reno county farm management meeting, J. H. Coolidge, leader, Hutchinson.
 May 23—Butler county spring crops tour, Cleavinger, Harper and Ramsour, leaders.
 May 23—Jewell county Farm Management Board of Directors meeting, Paul Griffith, leader.
 May 23—4-H livestock judging school, J. A. Schoen's Herford farm. Prizes and lunch by Lenora Chamber of Commerce. Lot Taylor and Ray Hoss, of KSC, judges. Includes 4-H members from Norton, Graham, Sheridan, Rooks, Phillips and Decatur counties.
 May 23-24—Cherokee county project leaders training, "Economic Buying of Food," with Mary Fletcher, foods and nutrition specialist.
 May 23-24—Fourth annual Kansas Flying Farmers Club convention, Dodge City.
 May 24—Ottawa county, 4-H girls' judging school, Minneapolis, Elizabeth Randle, leader.
 May 24—Chase county garden tour, conducted by William G. Amstein, Extension specialist.
 May 25—Johnson county farm architect meeting, Harold Stover and L. T. Wendling, leaders.
 May 25—Cowley county advisory committee program planning meeting for 1950.
 May 25—Finney county livestock judging school for southwest counties, Lot Taylor, Extension animal husbandry man in charge.
 May 25—Jackson county soil-conservation program planning meeting, Holton.
 May 25—Reno county crops tour, Hutchinson, E. A. Cleavinger, leader.
 May 25—Scott county livestock district meeting, Garden City, Ray Hoss, Extension economist, and Lot F. Taylor, Extension specialist, leaders.
 May 26—Sumner county soil-conservation and crop field day.
 May 26—Doniphan county planning 1949 soil-conservation program with supervisors, R. C. Lind, Extension conservationist, leader.
 May 26—Pottawatomie county garden tour.
 May 26—Jefferson county agronomy tour and field day.
 May 27—Five-county 4-H judging school, Lot Taylor, Minneapolis.
 May 27—Cowley county crops and soil tour.
 May 27—Jackson county farm structures and rural electrification meeting, Holton.
 May 27-30—Johnson county, Olathe rodeo.
 May 27—Ottawa county, district 4-H livestock judging school, Lot Taylor and Ray Hoss, leaders.
 May 28—Stevens county, Skelly Club award to outstanding farmer in county, Hugoton.
 May 31—Ellsworth all-county field day.
 May 31-June 4—State 4-H Round-up, Manhattan.
 June 6—Barton county crops tour. Wheat and oats varieties and fertility plot. Willoughby and Ramsour, leaders.
 June 7—Jewell county, plan annual program with soil-conservation district, R. C. Lind, attending.
 June 7—Johnson county, field visits on horticulture, W. G. Amstein, leader.
 June 7—Wabaunsee county beef tour, Lot Taylor, leader.
 June 7-10—State home demonstration assembly.
 June 8—Cherokee county livestock tour will start from Columbus with Ray Hoss in charge.
 June 9—Horticultural experimental field day, Wathena and St. Joseph. (Kansas and Missouri co-operating.)

June 8—Neosho county wheat field day, Thayer.
 June 8-9—Cowley county 4-H conservation days, with Selby, engineer, leader.
 June 8-11—Johnson county 4-H Camp at Rock Springs.
 June 9—Cherokee county field day, Columbus experimental field. Special emphasis will be placed on results of crop rotation and various rates of fertilizer applications.
 June 9—Pottawatomie county 4-H livestock judging school, Westmoreland.
 June 9—Pottawatomie county 4-H livestock judging school, Lot Taylor, Extension livestock specialist, leader.
 June 9—Crawford county judging school with Ray Hoss, Extension specialist, leader.
 June 9—Harvey county crops and soils tour, E. A. Cleavinger, leader.
 June 9—Rush county spring crops and soil tour, L. C. Willoughby, agronomist, and Harold H. Ramsour, Extension engineer, leaders.
 June 10—Agronomy field day, Kansas State College, Manhattan.
 June 10—Neosho county beef cattle production meeting, Ray Hoss, leader.
 June 10-11—Cowley county leaders training meeting, "Safe Milk Supply."
 June 12-15—Summer camp for 4-H members, Rock Springs.
 June 13—Nemaha county crop tour.
 June 14—Jewell county garden tour.
 June 14—Washington county garden tour, W. G. Amstein, leader.
 June 14—Barton county 4-H dairy judging school.
 June 15—Doniphan county agronomy and soil-conservation tour.
 June 14-16—Bourbon county will hold its first county-wide 4-H camp, Elm Creek Lake, sponsored by Ft. Scott Rotary Club.
 June 14—Lincoln county crops day tour.
 June 14—Scott county crops tour, Claude King, plant pathologist, and Frank Bieberly, agronomist, leaders.
 June 15—Scott county home demonstration unit leader training meeting, Gladys Myers, leader.
 June 15-18—Sheridan, Graham, Decatur, Rooks and Norton counties 4-H Club camp, Rock Springs Ranch.
 June 16—Finney county home management leader training school, Gladys Myers, Extension specialist, leader.
 June 16—Wichita county grains tour.
 June 16—Ford county wheat field day, Southwest Experimental Field, Dodge City.
 June 16—Jewell county garden tour, with W. G. Amstein, Extension horticulturist.
 June 17—Wheat field day, Garden City.
 June 17—Jackson county spring crops and soil-conservation tour.
 June 20-22—Barton county nutrition training school, Gertrude Allen, leader.
 June 24, a. m.—Small Grain Field Day, Smith Center.
 June 24, p. m.—Small Grain Field Day, Belleville experiment field.

Study Meat Wrapping

Heavy aluminum foil proved to be the cheapest wrapping for meat in freezer-locker storing, according to records kept in the meats laboratory at Kansas State College. Aluminum foil costs 60 to 85 cents for each 100 pounds of meat; laminated papers, 80 to 85 cents a hundred pounds, and other commercial wraps as high as 90 cents to \$1 per 100 pounds.

Another discovery in the meat laboratory is that pork sausage should be seasoned to taste before frozen. Sausage wrapped in laminated paper, cellophane, or aluminum will keep 9 to 10 months, if seasoned first. That without seasoning will break down within 3 months. Pork wrapped in wax paper should be used within 6 months.

Uses Pig Brooders

Electric brooders helped save pigs this spring on the Chester Wagner farm, Franklin county. From 4 sows 30 pigs were saved.

His homemade brooders are triangular-shaped boxes that fit into a corner of the farrowing pen. Lower board on the pen-side of the box is left off to permit easy entrance for pigs. Brooders are kept warm with special heat lamps that are placed at least 18 inches above the pigs.

To Holstein Meet

Three Kansas dairymen will be among the 148 official delegates to attend the 64th annual convention of the Holstein-Friesian Association of America in San Francisco, May 30-June 2. They are E. A. Dawdy, Salina; W. H. Mott, Herington, and R. L. Evans, Hutchinson.

It Can't Slip

A piece of sandpaper between each clamp of the meat grinder and the table edge or breadboard will prevent the grinder from slipping.—Mrs. A. B. C.

Universal V-Belt combine drives are DEPENDABLE



You can **DEPEND** on perfect power transmission with Universal V-Belt Drives during those hard working harvest days. Universal drives are easily installed; belts are easy to replace. V-Belt drives wear longer, prevent vibration, and are safer. Convert your combine now, and you can depend on a trouble-free harvest.

30 complete conversions for all popular makes of combines, 187 individual drives.

See your nearest dealer or write for illustrated folder.

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Built to Last a Lifetime
 Better built, latest in design. Constructed of heavy, power-tamped steam-cured staves, joints distributed. More all-steel, air-tight, hinged doors save labor. Inside finish troweled on, plus protective coating. Salina Silos have been giving perfect satisfaction for 36 years.

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GRAIN BINS

CHAMPION "Hi-Quality" BINS
 LOWER COST
 LONGER LIFE
 Immediate Delivery
 Permanent, leak-proof, crop-tight. Shipped complete. Easy to assemble—easy to move. Many sizes. SEALING ALONE pays for your building. 40 years of premium quality. Also corn cribs, silos, hog and poultry houses, garages, etc.

WESTERN SILO CO.
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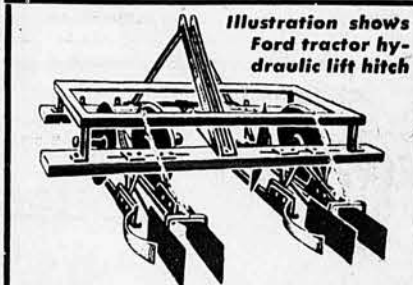
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RED AND WHITE TOP SILO

Ravenstein Sale of Polled Herefords At Cleveland, Kan. May 25

The Ravensteins know quality in cattle and farm buildings. In feeding this fine herd they use 12 Dodson buildings and 2 Dodson Silos. Write or phone for the Dodson Plans on Silos and farm buildings.

DODSON MFG. CO., Inc.
 1463 Barwise Wichita 1st and Cedar St. Concordia



Kirlin Listed Corn Cultivator
 Equipped for any pull-type tractor. Write for circular and prices.
THE L. KIRLIN CULTIVATOR CO.
 Centralia, Kansas

THE MODERN LOOK FOR YOUR FARM
 Keep your farm lots and lawns perfectly groomed with a new, all-purpose B-M POWER MOWER. Self-propelled or light push type. Rotary blade in sizes from 18 to 22 inches. Lifetime construction. Powerful, dependable 1 1/2 h.p. 4-cycle engine. Use also as handy, portable unit for numerous power jobs about the farm. Write for FREE literature and Low Factory Prices.
 Model D-3
B-M MOWER CO., Box 66-KF, Blue Mound, Kansas



ONLY \$75 for this NO-KRAK GRAIN BLOWER
 Formerly Sold For Over \$100
 No more scooping no more hard work. Let this NO-KRAK blower move all your grain—1200 BUSHELS PER HOUR WITHOUT CRACKING. Dries grain and elevates to 25 feet. Detachable hopper, 24"x68". ORDERS SHIPPED SAME DAY, f.o.b. Wichita.
 Order Direct or Write for Literature
PERRIN MACHINERY CO.
 Peabody, Kansas

SEEDS GERMINATE FASTER when you put ROLKLEEN TIRES

on your present steel press wheels

ROLKLEEN V-Tires help speed germination by pressing seeds into bottom and sidewalls of furrows, where most moisture stays. Plants often come up 2 to 5 days earlier!

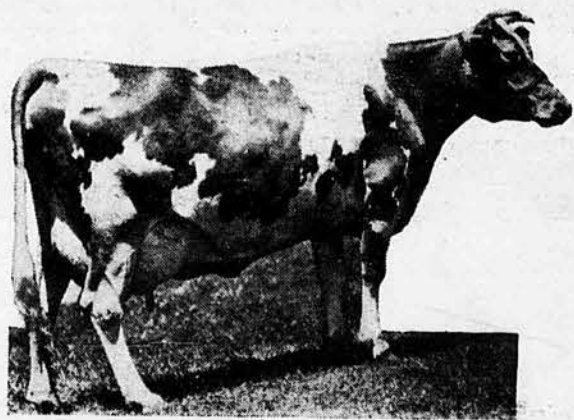
NO DIRT BUILD-UP

★ SMOOTH V-Walls prevent dirt and mud build-up. Pull easier, roll quietly, absorb shocks.
 ★ PROLONG press wheel life. Hub turns slower, picks up less dirt.
 ★ INSTALL EASILY on present steel wheels. Leave moisture-catching mulch. Pay for themselves!

STEWART-RECK TIRE & SUPPLY, INC.
 115-B E. 2nd St. Hutchinson, Kansas

Registered Guernsey Sale

Saturday, June 4



32 Head Including 14 Cows Milking, 6 Bred Heifers,
10 Heifer Calves, 4 Bull Calves, 2 Bulls

Sires of this herd are progeny of Bournedale Rex,
Langwater King of the Meads and Suttlewicke Caliph

—Health—

All Tb. and Bang's tested or calfhood vaccinated

Write for complete catalog.

Sale Starts promptly at 1 p. m.

Knorr Farms 13 miles east of Wichita
Stockyards, 1 3/4 miles north on blacktop

A. K. KNORR, Owner

617 East William St., Wichita, Kan.

Auctioneer—Boyd Newcom, Wichita, Kan.



Last Call

**WILLOW CREEK STOCK FARM
POLLED HEREFORD SALE**

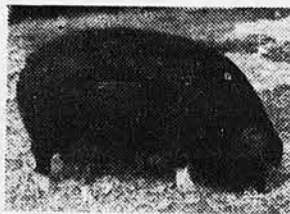
Wednesday, May 25

45 HEAD—Every one sired by or bred to our great Leskan bulls.
20 Bulls, including many real herd sires.
25 Females, all carrying the service of Leskan bulls.

JOHN RAVENSTEIN & SON

Cleveland (Kingman county), Kansas, Tel. 7F11

Big Black Polands Were Mortgage Lifters



MANCRYCO ANNIE

before wheat was an important crop in Kansas. They are smoother now but weigh more with less feed. See our boar, Kaylett (a double All Dimention) and our State Fair sow, Mancryco Annie, and her relatives in our herd, 65 pigs by the herd boar and four other noted sires.

Meet us at HUTCHINSON this fall.

Harry L. Turner, Harper, Kan.

Rowe & Son, Poland Chinas



We are now offering fall boars and gilts. Sired by Choice Goods and Mixers Buster. The fall gilts are bred to Dress Parade pictured in this ad. We would also spare a few spring pigs at this time by Dress Parade and the Illinois Grand Champion "Playboy." We have an outstanding litter on the farm by Wonder Boy. Come and visit us anytime. You are always welcome. Get your name on the mailing list now for the catalog of our annual Fall Sale, October 13. We will be looking for you.

C. R. ROWE & SON, Scranton, Kansas

Public Sales of Livestock

Aberdeen-Angus Cattle
May 25—Mary A. and C. C. McGinnis, Rich Hill, Mo. Sale at Welty Sale Pavilion, Nevada, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.
May 26—Red Oak Farms, Rocky Comfort, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.
November 10—Kansas State Angus Sale, Hutchinson, Kan.

Brown Swiss Cattle
October 19—Tri-State Brown Swiss, Fair Grounds, Topeka, Kan.

Guernsey Cattle
June 1—Harold Hansen, Hillsboro, Kan.
June 4—A. H. Knorr, Wichita, Kan. Sale on farm 13 miles east.
June 4—A. H. Knorr, Andover, Kan.
June 16 and 17—Pevely Dairy Company, Crescent, Mo. Missouri Guernsey Breeders' Association, Sales Manager, 101 Eckles Hall, Columbia, Mo.
October 21—Kansas State Guernsey Sale, Hutchinson, Max Dickerson, Secretary, Hiawatha, Kan.

Hereford Cattle
June 7—Emmadine Farm, Inc., Breckenridge, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.
September 13—Jansons Brothers, Prairie View, Kan.
October 15—Elmer Johnson, Smolan, Kan. (Night sale.)
October 31—Jesse Riffel & Sons, Enterprise, Kan.

November 7—Cowley County Hereford Breeders' Association, Chas. H. Cloud, Secretary, Winfield, Kan.
November 9—Flint Hills Association, Cottonwood Falls, Kan. Elmer G. Stout, Sale Manager, Cottonwood Falls, Kan.
November 14—Kansas State Hereford Sale, Hutchinson, Kan.
November 19—Dickinson County Hereford Sale, Abilene, Kan.
December 9—The South Central Hereford Association, Newton, Kan. Phil Adrian, Sale Manager, Moundridge, Kan.
December 13—John Stump, Bushton, Kan.

Polled Hereford Cattle
May 25—Willow Creek Stock Farm, Cleveland, Kan.
October 22—Midwest Polled Hereford Sale, Deshler, Nebr.
December 12—Kansas State Polled Hereford Sale, Hutchinson, Kan.

Holstein Cattle
May 25—L. W. Zumbum Farm, Junction City, Kan. and Earl Brown, Dwight, Kan. (sale at Zumbum Farm), E. A. Dawdy, Sale Manager, Salina, Kan.
October 24—Central Kansas Sale, Hutchinson, Kan. T. H. McVay, Manager, Nickerson, Kan.
October 31—Kansas breeders state sale, Herington, Kan. Chairman sales committee—George E. Stone, Medicine Lodge, Kan.
November 9—Central Kansas Holstein sale, Abilene, Kan. E. A. Dawdy, Sale Manager, Salina, Kan.
November 14—North Central Kansas Holstein Breeders' Association, Washington, Kan. Edwin H. Ohlde, Palmer, Kan.

Jersey Cattle
June 11—Percy R. Smith, Joplin, Mo. Laurence B. Gardiner, Sales Manager, Memphis, Tenn.
June 20—Isern and Knop, Ellingwood, Kan. Ivan N. Gates, Sales Manager, West Liberty, Ia.
October 20—Kansas State Jersey Sale, Manhattan, Kan.

Shorthorn Cattle
May 26—Bowen Bros., Hoxie, Kan.
October 25—Mid-Kansas Shorthorn Sale, Salina, Kan.
October 26—Carl Retzliff, Walton, Nebr. Sale at Lincoln, Nebr.
November 7—Central Kansas Shorthorn Breeders' Sale, Beloit, Kan.
November 7—Kansas Polled Shorthorn Sale, Hutchinson, Kan. State Fair Grounds, Lot F. Taylor, Sale Manager, Manhattan, Kan.
November 8—Kansas Shorthorn Breeders' Sale, Hutchinson, Kan. State Fair Grounds, Lot F. Taylor, Sale Manager, Manhattan, Kan.
November 12—E. C. and Glen Lacey, Miltonvale, Kan. Sale at Clay Center, Kan.

Milking Shorthorn Cattle
November 2—North Central Kansas Milking Shorthorn Breeders, Salina, Kan.

Chester White Hogs
October 11—Roy Koch, Bremen, Kan. Sale at Marysville, Kan. (night sale)

Duroc Hogs
October 22—North Central Kansas Duroc Sale, Belleville, Kan.

Hampshire Hogs
October 28—R. E. Bergsten & Sons, Randolph, Kan.

Poland China Hogs
October 13—C. R. Rowe & Son, Scranton, Kan.
October 14—J. J. Hartman & Son, Elmo, Kan.
October 19—Bauer Bros., Gladstone, Nebr. Sale at Fairbury, Nebr.
October 22—Kansas State Poland China Sale, Ray Saylor, President, Manhattan, Kan.

Hampshire Sheep
July 30—E. B. Thompson Ranch, Milan, Mo.

Southdown Sheep
July 25—Missouri State Breeders' Association Show and Sale, Hamilton, Mo. Carl Roda, Secretary, Trenton, Mo.

Sheep—All Breeds
June 24-25—Midwest Stud Ram Show and Sale, Sedalia, Mo. Rollo E. Singleton, Secretary, Columbia, Mo.

Saddle Horses
June 3—Richmond Consignment Sale and Dr. E. E. Gay Dispersion, Richmond, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.

Good Gains on Clover

Land seeded to legumes to improve soil fertility as part of the farm conservation plan pays its own way, in addition to helping crops that follow, according to Francis Brinker, of Cawker City, a co-operator with the Mitchell county soil conservation district.

Thirty steers grazing on 46 acres of sweet clover and 51 acres of native pasture gained more than 3,000 pounds in a 53-day period last spring, he reports.

"The clover had been seeded in 1947 on a field that had been cropped up and down hill continuously in past years," Brinker said. "It had suffered a great deal from erosion, and the soil was low in nitrogen and organic matter."

"I put the steers on the clover last April 6 and took them off May 29. They had access to the native pasture at all times. Each steer put on at least

100 pounds gain. The clover really paid its own way."

He already has built part of his terraces and has seeded part of his grassed waterways. He farms the cropland on the contour—with the terraces where they have been built—and has begun stubble-mulch tillage. He also has planted a farmstead windbreak.

Your Money's Worth

The wholesale price of farm machinery has not advanced as rapidly as it has for most commodities. Furthermore, the percentage rise has been less than one fourth of the percentage increase in prices received by farmers for their products since 1939. The increase in farm-machinery prices has neither kept pace with the price of iron and steel, nor with the increase in average hourly earnings of the production workers in the farm machinery and tractor industry.

Using 1939 as a base, the 1948 wholesale price of farm machinery had advanced only 44.7 per cent, compared to an increase of 61.9 per cent for iron and steel and 113.9 per cent for all commodities. During the same period, average hourly earnings of production workers in the farm machinery and tractor industry increased 92.9 per cent and prices received by farmers for their products increased 202.1 per cent.

One of the most important reasons why manufacturers of farm equipment have been able to keep the increase in selling price proportionately lower than the increase in their principal production costs, is the low selling costs which have prevailed since the war. In most lines of equipment, it has not been necessary for the manufacturer to sell, but merely to allocate output among the various dealers. Manufacturers of many items of farm equipment are now being confronted with the problem of increased selling costs at a time when price resistance is building up in a buyer's market.—From U. S. Department of Commerce news release.

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1/4 Column inch (5 lines) \$3.00 per issue
1 Column inch \$4.00 per issue
The ad costing \$3.00 is the smallest accepted.

Publication dates are on the first and third Saturdays of each month. Copy for livestock advertising must be received on Friday, eight days before.

JESSE R. JOHNSON, Livestock Editor
MIKE WILSON, Fieldman
Kansas Farmer - Topeka, Kansas

Dairy CATTLE**LAKEHILL JERSEY SALE**
Percy R. Smith, Owner
Joplin, Missouri
Saturday, June 11

Selling 60 head of choice Jerseys, from one of the best known herds in the Southwest. The herd having been on test continuously for 15 years, every animal selling is backed by lifetime production records, some as high as 80,000 lbs. milk and 4,000 lbs. fat. Showing has netted a total of 1,211 prizes won at leading Jersey shows. Herd accredited for Bang's and T.b.

There will be sold — 9 young bulls—27 heifers and 25 cows including 3 Ton of Gold cows.

Write for catalog and information to
LAURENCE GARDINER, Sale Manager
1863 Cowden Apt. A
Memphis 4, Tennessee

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.

FREE "BREEDING GUERNSEY CATTLE"

SEND for valuable booklet on profitable Guernsey breeding. There's always a ready market for quality Guernsey offspring and an ever-increasing demand for premium-priced GOLDEN GUERNSEY MILK. THE AMERICAN GUERNSEY CATTLE CLUB
925 Grove St., Peterborough, N. H.

NOTICE

Since my Guernsey herd has increased so that I no longer have enough room, I am selling a few high-producing cows and heifers. Also some exceptionally good registered bulls 3 months old. Write or see me.

A. N. DIRKSEN, Canton, Kansas
4 miles south and 2 miles east

REGISTERED GUERNSEYS

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

Beef CATTLE**THE TREND IS****TOWARD ANGUS**

Demand for Angus cattle continues at strong, but sound levels. Everywhere the trend is toward the Blacks. Generations of selective breeding produced today's modern breed. Share in this premium market by breeding and feeding Aberdeen-Angus. For information write: Dept. K, American Aberdeen-Angus Breeders' Association, Chicago 9, Illinois.

**ANGUS CATTLE FOR SALE**

Angus foundation herd and steers for 4-H Club work. Also individual Angus heifers and bulls. See CLIFF HENRY, Glenwood Angus Farm
69 Highway and 95th St., Kansas City, Mo.
Phone Melrose 9776

SHORTHORN BULLS REGISTERED

Good quality yearling bulls
VINCENT FIELD, Alma, Kansas

POLLED SHORTHORN BULL

Registered, roan, 3 years old. Look at his calves to see what he sires. GLENN C. RADENBERG, Chaffin, Barton Co., Kan. 5½ miles north.

POLLED HERFORD BULL**For Sale**

4 years old November 1, 1945. He was the second top in the Jesse Riffel 1945 sale.
IRL TINKEN, Gypsum, Kan.

Walnut Valley Reg. Herefords

Bulls and heifers of correct Hereford Type, strong in W.H.R. breeding. Few outstanding herd bull prospects. Sired by O.J.R. Jupiter Star 12th. 5 bred and 10 open heifers.

WAITE BROS., Winfield, Kansas

Dual-Purpose CATTLE**MILKING SHORTHORNS**

Bull calves sired by Liberty Mapperton 14th and Kenton Prince Domino, both are consistent purple winners at shows. High milk production.
Bernard Wassenberg
Marysville, Kan.

**Milking Shorthorns**

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

DUALLYN FARM, Eudora, Kansas

Rolfs' Milking Shorthorns

Classified for type, DHIA tested for butterfat. Offering a few bull calves at this time for your future herd sire.

CHESTER H. ROLFS, Lorraine, Kansas

Offering Registered Milking Shorthorn Bull

For sale. Red, 3 years old, 6 R. M. Breeding.
VANDERLIP BROTHERS, Woodston, Kansas

IN THE FIELD

Jesse R. Johnson
Topeka, Kansas
Livestock Editor

and MIKE WILSON, Livestock Fieldman,
Muscotah, Kansas.

Despite the recent misunderstanding as to whether he failed from the standpoint of profits, or whether it was the high cost of his feed that created the deficit, the Kansas hog is now definitely coming into his own and as always, with very few exceptions, will continue to be the most certain source of profits on the Kansas farm.

Much time and energy have been used in discussing what his correct type should be. Over the years a lot of energy has been expended in shortening his legs and lengthening them, changing his lop ears to short, thin and nicely tipped ones, then changing again to heavier ears. He has been made into a small animal, nice to look at and made over again into a rangy type. Changed to a red with just the right shade. Spots erased from his once raven-black color. A stripe of white around his body of the right width. But he has withstood the onslaught of preferred pedigree, and other fads and fancies, and now is probably the best kind of hog that ever has been on Kansas farms, from the standpoint of the packers and farmer judgment. The poly-poly and race-horse type have both disappeared. The hog will continue to serve the farmers' needs just as he did before Kansas was known as the leading wheat state.

Buyers from many states gathered at Marysville, May 11, to take part in the annual auction of KROTZ STOCK FARMS Aberdeen-Angus production sale. Crestview Farms, of Menlo, purchased the top bull, a son of Ever Prince of Sunbeam at \$2,500. Silver Top Farm, of Belton, Mo., paid \$2,050 for another son of Ever Prince. Leo Archer, of Chillicothe, Mo., paid \$875 for the top-selling female, also a daughter of Ever Prince of Sunbeam. Eighteen bulls averaged \$723. Twenty-four females averaged \$433. Forty-two head made a general average of \$558.

On the highly improved POPP STOCK FARM 2 miles north of Haven, in Reno county, HERMAN POPP is demonstrating the value of early training in 4-H Club work. Not yet 20, he still is eligible to go along with the boys, but he is staying out this year for good, having already won laurels in shows wherever his Durocs and Suffolk sheep have been shown. He began breeding registered Durocs about 7 years ago and started with sheep a couple of years later. His ram Kansas H. P. was grand champion at Hutchinson and Topeka in 1948, and his Duroc boar, Artese Market, was grand champion at the same shows for 1948. About 80 pigs and a fine lot of young rams are now on the farm. Preparations are being made to exhibit both sheep and hogs this fall at leading fairs.

A recent visit to ETHYLEDAL HAMPSHIRE FARM indicates continuous progress in Hampshire improvement. Early in his experience as a breeder, DALE SCHEEL discovered the importance of uniformity along with quality. Two or 3 good pigs in a litter was not sufficient. And so, by selecting sows of the same bloodlines and alike in conformation, much has been accomplished in this, one of the leading Hampshire herds of the state. Mr. Scheel, in temperament, is exceptionally well-qualified to study every phase of the breeding business from pedigree, thru feeding processes, on up to selling his product. But his close attention to details keeps him so close to home that many contacts possible by attending fairs, shows and other places where prospective buyers meet are missed. About 100 pigs are doing well, crop conditions are good, and a good season is looked forward to.

SWARTZ BROTHERS, of Everest, held their annual production sale of Aberdeen-Angus cattle at the farm May 10. This was probably one of the largest attended auctions in that section of the country. The cattle were presented in excellent sale condition. They were appreciated very highly by the buyers. A top of \$2,600 was paid on bulls. Sunflower's Elitennere, a June 2-year-old, brought that price going to Penney & James, Hamilton, Mo. Duffey & Bougher, of Trenton, Mo., paid \$1,700 for the top female, a 2-year-old heifer carrying the service of Revolution's Black Prince. Twenty-one bulls averaged \$6.5 a head. Forty-one females averaged \$434. Sixty-two head made a general average of \$516. The offering was distributed among 6 states, Missouri, Nebraska, Colorado, Oklahoma, Texas and Kansas. However, the larger portion of the offering stayed in Kansas.

The MISSOURI GUERNSEY BREEDERS Sale, Columbia, May 5, was well attended. Fifty-one cows, heifers and bulls in the open sale averaged \$454.71. They were purchased by 30 buyers from Missouri, Kansas, Illinois, Texas and Iowa. Fourteen cows averaged \$492.14; 16 bred heifers averaged \$448.75; 15 open heifers \$368; 6 choice bulls averaged \$600.

The top of the sale was the McDonald Farms Elite Hightime. This choice young bull sold for \$925 to Walter J. Bublitz, Kansas City, Mo. The top female was St. Albans Grandee Venus. This 2-year-old heifer had a choice bull calf at side a few days old. The pair sold together for \$790 to Mr. and Mrs. Aubrey Chaney, Kirksville, Mo. Twelve heifers sold to Vocational and 4-H students of Missouri averaged \$272.50. Kansas buyers in the sale were Lawrence Kruse, Morrill, 3 head; Lee-A-Jean Farms, Gardiner, 3 head. Bert Powell, Topeka, was the auctioneer. Lawrence Rainey of St. Albans Farms read pedigrees.

125 LOTS OFFERED in ALL-FEMALE SALE on Tuesday, June 7, 1949

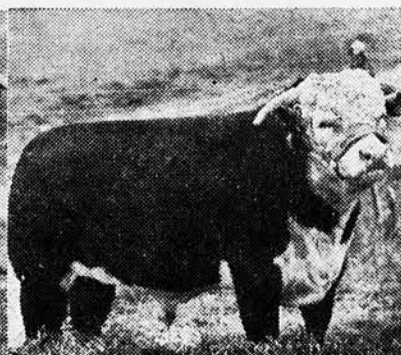
Starting promptly at 12 o'clock noon. The sale will be held in large tent at
EMMADINE FARMS, Inc., near Breckenridge, Mo.
Turn south at sign located on U. S. Highway 36, go 1½ miles to farm.

125 Head of Top Quality Females

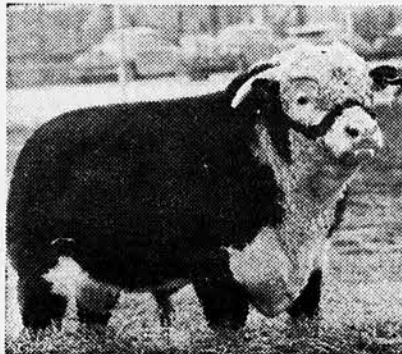
Featuring the Get and Service of Four Great Breeding Bulls



M W Larry Domino 36th



M W Larry Domino 87th



T T Mission Triumph



Beau Zento T. 83d

Everyone knows that Emmadine Farms is in its building stage and we realize we must pay equal attention to building lasting friends and customers. To encourage this building program and to merit your continued confidence and good will we decided to offer you our entire 1946 and 1947 female calf crop with no herd replacements kept back and with any undesirable cattle culled out. We are selling 100 head of bred heifers and 25 open heifers. There will be 50 head of the 1946 females with a good percentage with calves at side and rebred. There will be 50 head of the 1947 heifers all well along in calf. All of the calves are by, and all of the cows of breeding age are carrying service to, one of these four bulls: T T Mission Triumph, M W Larry Domino 36th, M W Larry Domino 87th, and Beau Zento T. 83d. We believe that the four herd bulls are as strong a battery of sires as any herd in the nation possesses and the calves make it hard to tell which is the better breeding bull. Take advantage of this opportunity to buy the get and service of these great sires. Individual health papers furnished for T.b. and Bang's test. The offering is not highly fitted, just sell in good breeding condition.

Catalogs mailed on request. Write today for your copy to
DONALD J. BOWMAN, Sales Mgr., Hamilton, Missouri

EMMADINE FARMS, Inc., Breckenridge, Mo.

J. C. Penney, President

Herb Hogan, Manager

Auctioneers: Thompson, Fulkerson and Sims

Bert Powell for Kansas Farmer



We now have for sale a nice thick blocky June yearling Hereford bull calf sired by Super Blocky and out of a double grand-daughter of Prince Domino A.



We also have Duroc fall boars sired by First Base and some fall bred gilts priced for quick sale.

Come to Wreath Farms, Manhattan, Kan.

ATTENTION! SADDLE HORSE BREEDERS!

And Everyone Interested in Good Saddle Horses

THE RICHMOND SADDLE HORSE CONSIGNMENT SALE

In Connection With the

COMPLETE DISPERSION

of the Fine Saddle Horses Owned by

Dr. E. E. Gay, Richmond, Mo., Friday, June 3, 1949

Sale starts at 10 A. M. in large tent at legion park at Richmond, Mo. Ample stable facilities for 125 head. Richmond is on 13 and 10 forty-eight miles east of Kansas City, Mo.

OVER 100 HEAD WILL SELL: Dr. Gay's complete dispersion consists of 41 head, Stud-King's Genius by Bourbon King foaled 1943, 15 brood mares with 8 foals, 8 two-year-olds, 9 yearling colts. The offering carries the breeding of Stonewall King and many other popular bloodlines. Many head consigned by outstanding breeders and stables in the Midwest. Consignments will be accepted sale day.

For your catalog wire, phone or write to DONALD J. BOWMAN, Sales Mgr., Hamilton, Mo. Auctioneers: E. E. McClure, Johnny Wood, Harry Glascock, Charles Pike, Tony Thornton



Your Best Buy Is U. S. Savings Bonds

Complete Dispersal of Guernsey Herd DOUBLE H RANCH



Located 6 miles west 1 north of Elmdale, Kan.,
on Highway 505 or 11 miles east 2 north of
Marion, Kan.

Wednesday, June 1, 1949

About 50 Head of registered and high grade cows, heifers
and calves and 2 good bulls.

Herd on DHIA test for several years. Also sale of entire
late type power farm machinery.

Machinery Sale 10 A. M. — Cattle Sale 1 P. M.

For further information write or call

HAROLD HANSEN, Hillsboro, Kan., Tel. 13 or 44



Headquarters for the Best REGISTERED DUROC HOGS

80 top pigs ready to ship, sired by Artese Market
Sensation and Golden Lad.



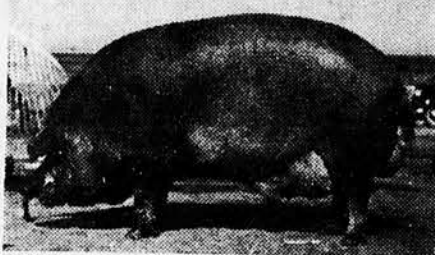
REGISTERED SUFFOLK SHEEP

Choice ram lambs for sale sired by Kansas H. P. 2 (cham-
pion ram of Kansas for 1947 and 1948). Ewe flock bred
deep in the blood of Rock and Schultz bloodlines. See our
exhibit at Kansas Fairs this fall.

HERMAN POPP, Haven, Kansas

Alexander Durocs

Many sired by Proud Promoter, a son of
Lucky Promoter grand champion at the
Minnesota State Fair. Also a number of
pigs sired by Diamond Ace by Royal
Diamond the great Juhl bred boar. We
still have many daughters of that grand
breeding boar Low Down Fancy in our
herd. Our fall sale offering will be made
up of sons and daughters of these great
boars mentioned. Register now for the
catalog of our fall sale. (Date to be an-
nounced soon.)



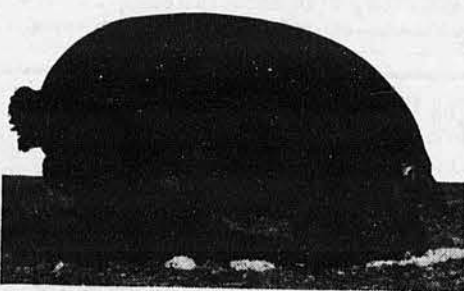
FRANK ALEXANDER, Corning, Kan.

Hillcrest Farm Durocs

Smooth Lucky, bred by Juhl Brothers;
Fancy Hillcrest and Market Topper
boars are in service at Hillcrest.
These good boars are being used
with sows strong in the blood of
Red Star and Low Down Fancy. Now offering fall boars, bred
gilts and spring pigs. This is one of the oldest Duroc breeding
establishments in Kansas.



HILLCREST FARMS, W. H. Hilbert, Corning, Kansas



Cloverdale Farm DUROCS

Our breeding herd is made up mostly
of daughters of Proud Cherry Colonel.
We have a fine crop of spring pigs
now being developed. They are some
fine prospects and they are sired by
Cherry Design. We are striving to
produce those quick easy-feeding
Durocs, that please the most dis-
criminating buyer. We are now offer-
ing spring pigs in pairs and trios sired
by this good boar. Write or visit

CLOVERDALE FARM, Anderson Brothers, Concordia, Kansas

Our Spring Pig Crop Is Coming Along Fine

They are all sired by Star Design, Comprest
Ideal and Commander Blender

**Check October 28 on the
Calendar Now for our Fall Sale**

The prospects at this time look as though we
will have the finest offering of Hampshire
boars and gilts that we have ever put before
the public. The offering will be the tops from our entire spring pig crop of
250 head. Register now for a catalog of our Fall Sale. Visitors always wel-
come.

R. E. BERGSTEN & SONS, Randolph, Kansas



C. R. ROWE & SON, of Scranton, report the
sale of a very choice Poland China fall boar to
Hubert S. Miller, of Myerstown, Pa. Pigs are all
vaccinated and doing fine report Rowe & Son.

WARING & WRESTH, Belleville, drew unfav-
orable weather for their dispersal Duroc pig
sale. It rained all day and roads were so muddy
that a small crowd naturally reduced prices. The
75 pigs however, brought a general average of
\$32.50 for boars and \$31 for gilts. Not so bad for
weanlings. The local demand was very good.
Every pig stayed in Kansas and would, of course,
have brought more money had weather been fav-
orable. John Shelton was the auctioneer.

June 5 is the date of the big Milking Short-
horn field day and picnic to be held at the BER-
NARD WASSENBERG farm, near Marysville.
Mr. Wassenberg reports a big lot of fried chicken
and everything that goes with it. The show is
being held under the auspices of the NORTH-
EAST KANSAS MILKING SHORTHORN DIS-
TRICT ASSOCIATION, but folks are welcome
from everywhere.

Bernard now has one of the good herds of the
state.

J. J. HARTMAN & SON, successful breeders
of big, smooth Poland China hogs report more
than 100 spring pigs doing well on their Dick-
inson county farm, located at Elmo. The Hart-
man herd is one of the oldest and strongest
Poland China herds in the entire country. I
know of no Kansas farm more definitely de-
voted to the business of breeding and developing
good Polands. Breeding stock from the herd has
gone out to strengthen the breed in Kansas and
many other states.

HARRY GIVENS, of Manhattan, drew an ideal
day for his sale of registered Durocs. About 150
farmers, breeders and spectators came out for
the sale. The offering was presented in unusually
good breeding form. The top boar sold for \$85 to
Robert Johnke and N. E. Gillespie took the high-
est-priced female at \$80. The entire offering of
60 head sold for a general average of \$71, with a
boar average of \$75, and a female average of
\$71. Every animal went back to a Kansas farm.
The sale was held at Overbrook Farm, 2 miles
west of Manhattan.

The SOUTH CENTRAL KANSAS MILKING
SHORTHORN sale, held at Hutchinson, was
attended by about 200 buyers and spectators.
According to sale manager prices were below
what they should have been, due to the busy
season on the farms. However, the top bull
sold for \$400, going to Jesse J. Johnson of
Augusta. Howard L. Kaufman, of Moundridge,
purchased the top female at \$350, and the gen-
eral average on the 34 head sold was \$210. Fe-
male average was \$224, and bull average \$221.
The offering was well-fitted. Gus Heidebrecht
was the auctioneer, and Harry Reeves, of Hutch-
inson, managed the sale.

DAN & KENNETH BOHNENBLUST, regis-
tered Berkshire breeders at Riley, report every-
thing fine in their section of Kansas. They are
saving a good lot of pigs from about a dozen
sows. The pigs are out of dams that carry the
bloodlines of several noted sires and dams of the
breed and the pigs were sired by 4 different
boars. The boar, White Spot Epoch, heads the
battery of herd boars. He was the 1944 national
reserve champion boar. A number of the spring
pigs are sired by a son of this boar, which was
1st junior boar at the Kansas Free Fair. Others
are by the boar that was junior champion at the
Kansas State Fair in 1947. The Bohnenblusts
also have a good herd of registered Milking
Shorthorn cattle.

W. F. WELLER, of Americus, believes hogs
are essential to the prosperity of every farmer.
Especially good ones, and by this he means that
Spotted Poland Chinas lead. He keeps a group
of well-selected brood sows that carry the blood-
lines of sires that have made history for the
breed. Then by selection, plans always to in-
crease the good points that go with a No. 1 brood
sow. Just now he has a fine lot of fall gilts bred
to good boars and sired by boars of equal merit.
Some of these will stay in the herd and others
will go to customers, as well as the 50 good
spring pigs that were sired by 5 different boars.
Plenty of good pasture and proved feeds for
growing are being used in the development of
the pigs.

JOHN RAVENSTEIN & SON have made Wil-
low Creek Stock Farm famous as the headquar-
ters of one of the great herds of registered Polled
Hereford cattle in the entire country. Located
in Kingman county, near the little towns of
Cleveland and Belmont, they annually bring
buyers from many states and Canada to their
production sales. Several years ago they had al-
ready sent cattle to 11 states. A program of de-
veloping better cattle from year to year is re-
sponsible for many of the good Ravenstein bulls
heading so many herds in this and other states.
Progress and better breeding cattle came when
the great breeding sire, WHR Leskan 2nd, came
to head the herd. Followed by WHR Leskan A.
3d, and now Leskan A. A. 1st, a wonderful
bull sired by the 3d. Now a large per cent of
the herd carries the blood or have been bred to
one of the above bulls. This makes for uni-
formity and is a good reason for the great
bunch of serviceable bulls now on the farm.

For nearly 50 years registered Duroc hogs have
been bred on the Huston farm at Americus. Un-
der the faithful and capable guidance of W. R.
HUSTON, every purchase of a much hunted sire
has shown improvement. And by selecting the
best gilts for breeding in the herd a great line
of sow families have been developed. For 20
years Willis, Mr. Huston's only son, has been
a partner, but for the past 5 years he has been
the sole owner and manager of the herd. It is
inspiring to note that this change of manage-
ment has taken nothing from the quality or man-
agement of this great herd. More pastures are
seeded and there is evidence of progress all
around that may be expected of youth. The 240
acres are being gradually put to grass and less
farming and more attention to the Durocs is be-
ing given. Two hundred spring pigs are on hand
with new breeding to take care of customers
who have depended on the Hustons for new
breeding for several years past. Spring and fall
litters are grown and Durocs of any age are for
sale at any season of the year. A great array of
the blood of noted boars have gone into the
building of this herd.

Keeps Rust Off Bolts

A coating of asbestos roofing cement
applied to the threads of bolts before
tightening the nuts will prevent rust-
ing.—Mrs. A. B. C.

HOGS



...It Pays to Raise BERKSHIRES ...BRED FOR MEAT...

Meet the demand of to-
morrow's market by get-
ting "meat type" hogs to-
day. We have choice spring boars
ready to ship soon, that will put
those meat qualities in their off-
spring.

For prices on these and other good
breeding stock write or visit

**Dan & Kenneth Bohnenblust
Riley, Kansas**

WELLER'S SPOTTED POLANDS for BREEDING and QUALITY



Selected fall gilts
sired by Rock of
Ages, a great son
of Broadback King
and bred to Wel-
ler's Roxsy. 50
choice spring pigs
sired by Weller's
King and Weller's
Roller. We ship no culls.
Prices consistent
with quality and breeding.

W. F. WELLER, Americus, Kan.

NOTE—I am at the same location but have
changed my address.

EVER GREEN FARMS SPOTTED POLAND CHINAS

For Sale—Choice February and March
pigs. Unrelated trios sired by "Justrite
Prince" and "Pawnee Sunset."

Good blocky gilts bred to "Justrite
Prince"; Also serviceable-age fall boars.

REGISTERED HEREFORD CATTLE

Offering 3 Reg. Yearling Hereford Bulls

Inquire of
**HERBERT HOLLIDAY
Berryton, Kan.**

Reg. Spotted Polands BOARS — GILTS

For Sale—Choice gilts bred for Sep-
tember farrow to "Diamond X" and
"New Mercury." Two really top
boars. When you need breeding
stock write or visit

SUNNYBROOK FARM "Home of Fine Spots"

**H. E. HOLLIDAY
Shawnee Co., Richland, Kan.**

Reg. Spotted Poland BRED GILTS

FALL BOARS

Gilts mated to a choice son of Hytest.
Boars and gilts all sired by Kansas Chief.
Top quality, select stock.

CARL BILLMAN, Holton, Kansas

WHO BREEDS SPOTTED POLANDS IN KANSAS?

We will gladly send the list of members of
the Kansas Spotted Poland China Breeders' As-
sociation. Many members have stock for sale.
For list and other information write to Secretary,
H. E. HOLLIDAY, Richland, Kan.

BAUER BROS. OFFER POLAND CHINAS

Choice fall boars by Copyright and
out of top sows. Also fall bred gilts.
BAUER BROS., Gladstone, Nebr.

Bloom Offers

CHESTER WHITE HOGS

50 boars, bred gilts, fall gilts. Weaning pigs at
Special prices, 9 to 16 in litters.
BLOOM CHESTER WHITE RANCH, Corning, Ia.



REGISTERED
BRED GILTS and
Weaning Pigs
**PETERSON AND SONS
Osage City, Kansas**

Champion Carcass of the World

Our Yorkshire Barrow
Raise Yorkshires for less lard, larger litters.
High winning herd of the breed, Illinois, Ohio
and Maryland. Illustrated circular.
YALEHURST YORKSHIRE FARM, Peoria, Ill.

HOGS**DUROCS**
THE FARMERS
AND FEEDERS
FAVORITE!

Fast growing, quick maturing Durocs have produced more official **Ten Litters** than all other breeds combined!—A good reason why Durocs are the nation's most popular breed by over 2 to 1 and why—over 400 Kansans registered Durocs in 1948.

For further records and reasons concerning Durocs inquire thru the

KANSAS DUROC BREEDERS ASSN.
by writing to
Fred Germann, Secretary, Manhattan, Kan.

Buy Your Duroc Breeding Stock in Kansas



Seco Low Down, Highland Husky and Fleetline sows have been mated to our new herd sire **Golden Model**, top-selling boar at the Kansas State Duroc Breeders fall sale in 1948. We have one litter by **Modern Trend**. At this time we are offering some choicely bred fall gilts. Also some spring boars and gilts priced reasonable. Visit us any time.

ALLEN LARD, Clay Center, Kan.

The blood of Seco Low Down and Seco Market Topper predominates in our Durocs.



Our present herd sire is **Smooth Boy** by **Smooth Design** third junior yearling at the Illinois State Fair in 1948, also third junior pig in Indiana State Fair in 1947. Spring pigs for sale now. A few sired by **Colonel Grand**. Most of the offering are grandsons and granddaughters of **Seco Low Down**.

SHERWOOD BROTHERS
Concordia, Kansas

SHEPHERD'S
SUPERIOR DUROCS

Bred sows, gilts for summer and fall farrowing. Boars: serviceable and spring tops in blood and conformation. Registered and immuned. Prices right.

G. M. SHEPHERD, Lyons, Kansas

DUROCS ALL AGES

Boars of serviceable age. Bred gilts. Weanlings after June 1. **Fancy Challenge** and **Topsy Success** in service. One litter by **Fleetline**. (Durocs since 1915)

WM. BOHLEN, Downs, Kansas

Show Straw Loft Value

Importance of straw lofts in chicken laying houses has been demonstrated in experiments being conducted by the poultry department at Kansas State College, Manhattan.

Earlier experiments showed straw lofts kept laying houses about 10 degrees warmer in winter; 10 degrees cooler in summer. White Plymouth Rock hens kept under controlled temperature conditions in recent tests layed an average of 19 eggs each more in a 6-month period.

Light and humidity also are controlled in the K-State poultry tests.

The tests show seasonal changes affect quality and number of eggs produced. High temperatures have harmful influences: eggs decrease in size; shells become thin; egg whites less firm.

Study Big Loss

Studies to find out why some dairy cattle do not reproduce normally have just been started by the Bureau of Dairy Industry. This research will deal with reproductive troubles that are due to nutritional, physiological and hereditary factors.

The problem is an important one to dairymen. Breeding troubles are estimated to cost dairymen 250 million dollars annually because of losses in milk and calf production.

Holder for Shovel

A piece of old tire casing makes an excellent holder for shovel and similar tools. The piece of casing, fastened to the garage or basement wall, forms a rack in which the tools can be hung, so they are not in the way. Cut a section of casing 6 inches long. Make a 2½ inch slot in each of the side walls of the casing. Nail the section to the wall with slot openings facing upward. Slip the shovel or any other broad-blade tool into the section so that the blade rests in the slots.—Mrs. B. C.

Trend of the Markets

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

	Week Ago	Month Ago	Year Ago
Steers, Fed	\$26.50	\$25.75	\$34.00
Hogs	18.85	18.50	25.00
Lambs	30.00	26.50	32.50
Hens, 4 to 5 lbs.	.19	.25	.23
Eggs, Standards	.45½	.41½	.41½
Butterfat, No. 1	.54	.54	.78
Wheat, No. 2, Hard ..	2.28¾	2.31	2.43¾
Corn, No. 2, Yellow ..	1.35½	1.45	2.40½
Oats, No. 2, White ...	.75½	.76½	1.37
Barley, No. 2	1.10	1.18	1.89
Alfalfa, No. 1	30.00	30.00	37.00
Prairie, No. 1	17.00	17.00	16.00

DUROC FALL BOARS AND GILTS

Sired by **Double Sensation** by the **Mighty Super Sensation** and from top dams of the breed. Splendid type and conformation, beautiful dark color. Money back guarantee.

2 Spring Boars, 3 Late Bred Gilts
BEN M. HOOK & SON, Silver Lake, Kan.

SAYLER POLANDS

Black King one of the finest breeding boars we have ever owned has left some fine sons and daughters in our herd. In scanning our pedigrees you will find that many contain the blood of **Reconstructor** another great Poland China boar. Our herd is made up of the offspring of these two good boars. At the present time we have

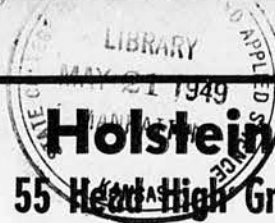
litters by **Western Union, Copyright and Gladstone**. Spring pigs of both sexes for sale. Also boars and gilts for the fall trade. **RAY SAYLER & SONS, Manhattan, Kansas**

THIS IS A PHOTO OF HATTIE 327989
One of Our Foundation Sows

She has farrowed 91 pigs in 8 litters, now suckling eight from a litter of 9. **Tar-Baby 46813**, champion Kansas State spring show, heads our herd.

80 choice spring pigs for immediate sale. Five strains of unrelated Poland Chinas that carry some of the breed's best bloodlines. Many sows are granddaughters of **All Dimensions** (1945 Iowa Grand Champion boar). Club members see me. Pairs and trios unrelated. Prices special for quick sale.

HENRY J. HAIN, Spearville, Kansas

**Holstein Dispersal Sale**
55 Head High Grade and Registered Holsteins
Wed., May 25

12:00 Noon

Sale at

L. W. ZUMBRUM FARM

Junction City, Kan.

2 miles west on K18, 1¼ north. Good roads. Sale under cover.

55 HOLSTEINS

- 2 Registered Holstein Cows
- 2 Registered Holstein Heifers
- 3 Registered Holstein Bulls (all serviceable age)
- 27 Grade Cows (Nearly all fresh in March and April or June Springers)
- 12 Bred Grade Heifers to freshen May to October
- 10 Open Grade Heifers (all by one bull)
- 1 Two-Unit Surge Milker
- 1 International Milk Cooler

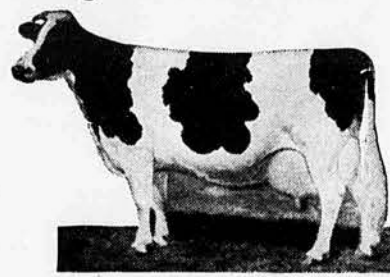
Tb. and Bang's tested within 30 days. Calfhood vaccinated with certificates furnished. Everything sells. Opportunity to buy the Best.

This is a combination sale between **L. W. Zumbrum** of Junction City and **Earl Brown** of Dwight, Kan. The cattle are in good flesh and are milking. The herd is clean and I can recommend these cows as high quality Holsteins. — **E. A. Dawdy**.

Owners: L. W. ZUMBRUM, Junction City
EARL BROWN, Dwight, Kan.

E. A. DAWDY, Sale Manager

Aucts.: Bert Powell, Francis Maloney, Bill Crites Jesse R. Johnson with Kansas Farmer

**Haven Hollow Duroc Farm**

was selected and purchased as an ideal place for the breeding and improving of the world's most popular swine breed. We go forward with the herd boars—**Star King** and **Model Promoter** selected by type and bloodlines to do what they are doing, siring accepted type uniform pigs.

We offer good fall gilts sired by **Topper** and **Kan Be** and bred to above sires. A few fall boars and spring pigs. Visitors always welcome.

G. F. GERMANN & SON, Manhattan, Kan.

Artese Orion Spotlight, Leader's King and Blocky Knockout are at the head of our choicely bred sow herd.

Representing the blood of famous boars such as **Princess Designer** and **Royal Fancy Junior**. Fall boars priced reasonable. Bred gilts and well grown, well bred spring pigs furnished in pairs at reasonable prices. The herd is cholera immune. (We have bred Durocs since 1925.) Write, call or visit

ARTHUR E. ROEPKE, Waterville, Kan.

**Huston's Durocs Solve Your Problems**

When looking for rich colored, nice headed Durocs that are of the thick, deep, long trim, meat type with style and soundness.

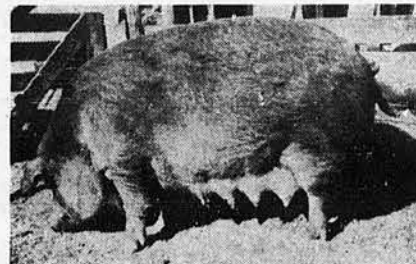
Fancy Supreme, the sire **Supreme**, has sired us a great lot of spring pigs. Also have dandies by **Hoosier Hustler**, **Supreme Delight**, **Proud Promoter** and **Diamond Ace**. When in need of a spring boar or gilt, that you will be proud of and that will improve your herd, come, write or call us.

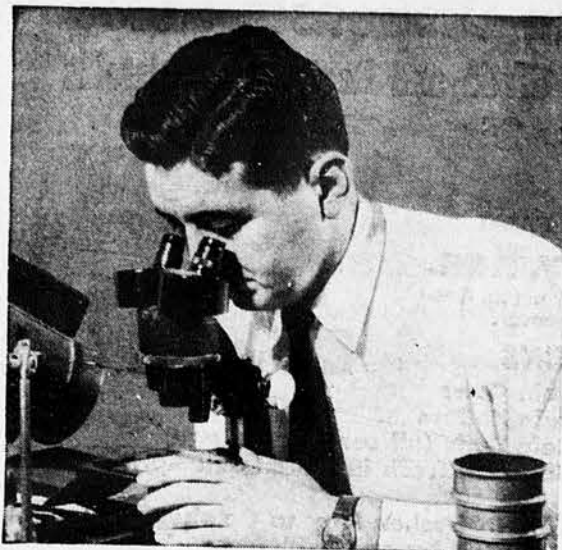
WILLIS HUSTON
Americus, Kansas

Thank You Duroc Breeders and Farmers

What we have been able to accomplish during the past 20 years is due to your patronage and encouragement. We have worked together to raise the standard of Durocs. Much has been accomplished, but there is still work to do. We continue with choice fall boars for sale and 270 spring pigs sired by **Eureka** and **Blocky Diamond**. They are out of our best sow families, 75 per cent of them carrying some of the blood of **Golden Fancy**. Visitors welcome.

CLARENCE MILLER
Alma, Kansas





J. B. GARRETT, of Houston, Texas, is a paleontologist, a member of the Standard Oil group which works to discover more oil. Last year we found enough new oil to increase our total reserves despite record-breaking production.



J. S. ASHWORTH is a tool pusher on one of our drilling crews. These crews last year increased Standard Oil's facilities by bringing in 597 new oil wells. The cost of finding crude oil has gone up about 300 per cent in the last ten years.



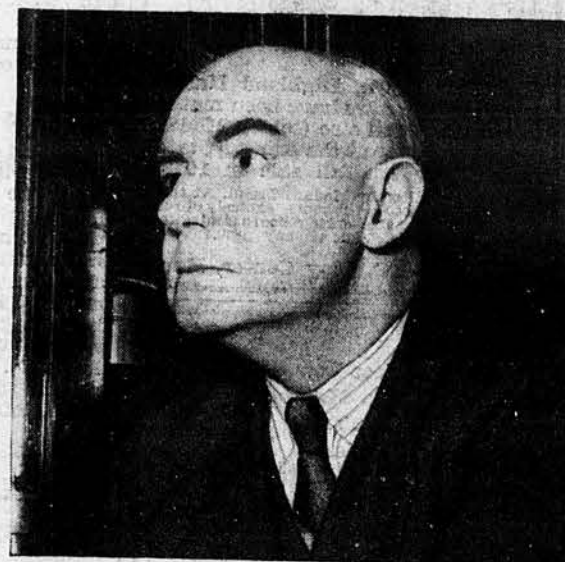
SVERRE N. AMUNDSEN is wheelman on a Standard Oil tanker, one of a large fleet of tankers, towboats and barges used to transport our petroleum products on the Great Lakes and the Mississippi, Ohio and Illinois rivers.



ADOLPH WOLFF, engineer at our Joliet, Illinois, pipeline pumping station. Hundreds of Standard Oil employees help keep crude oil and petroleum products flowing along our pipelines, to which 1,280 miles of new lines were added last year.



BOB BUEHLER works at Standard Oil's Sugar Creek, Missouri refinery, where last year a new catalytic cracker was built. It can produce enough high-octane gasoline in a single day to supply an average motorist for 1000 years.



LEWELLYN HEARD, Ph.D., a project chemist in our research laboratory at Whiting, Indiana. By discovering ways to get more and better products from crude oil, our research program has added extra millions of barrels of gasoline to your supply.

NINE OF THE MEN WHO LICKED THE OIL SHORTAGE

Now, as you know, the danger of a crippling shortage is over. You can get the oil you want. Here's the reason: hard work by America's oil companies—by thousands of drillers, transportation workers, refiners and marketers, backed by billions of dollars spent for equipment.

Standard oil employees work together as a team, from the oil well to the service station. That's why we are able to bring you more oil.

You get the petroleum products you want—and you get them most economically—because of the teamwork possible in an integrated organization. The 48,000 employees of this company and its subsidiary companies last year set output records for the third consecutive year.

Money and men worked together to produce more oil, refine more oil, bring you more oil.

STANDARD OIL COMPANY (INDIANA)



WILFRED P. CAVANAUGH of Standard Oil's purchasing department is one of the men in charge of buying the tools and equipment we need to keep you supplied. In the past three years we have paid out more than \$630,000,000 for such equipment.



KARL F. JOHNSON, of Indianapolis, Indiana, is one of the 97,000 owners of Standard Oil. The investment of these owners provides the tools and equipment with which jobs have been created and production increased.



RAYMOND OLCHEFSKE runs a service station on Como Boulevard in St. Paul, Minnesota. He is not a Standard employee, but one of the thousands of independent businessmen who sell our products. Our job is to keep him—and you—supplied.