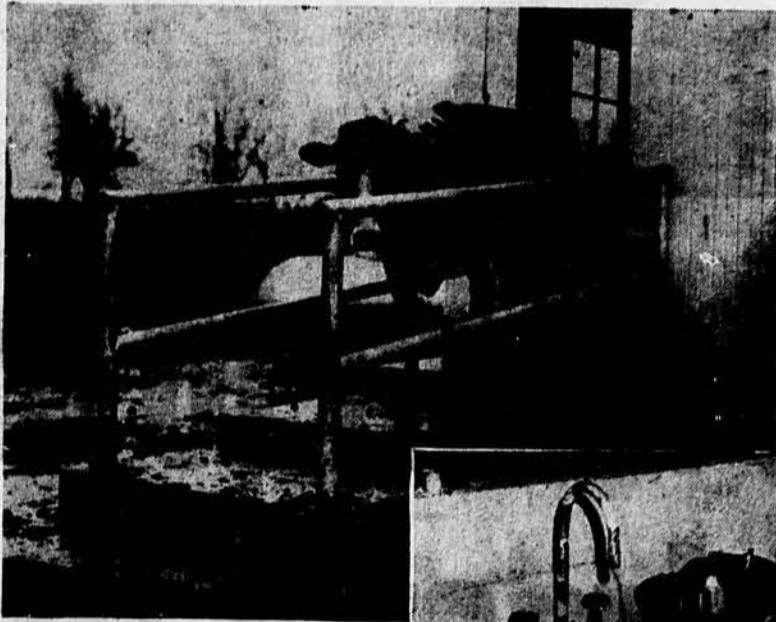
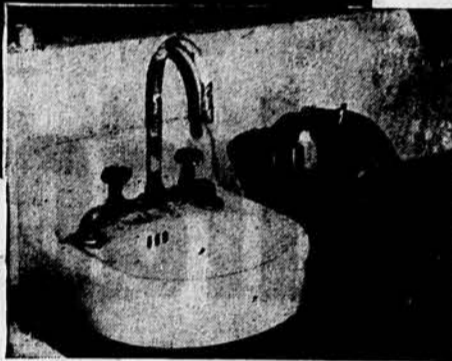


Kansas Farmer



WHEN COWS are released they come down stairway, which is much safer in bad weather than sloping runway.



PIT IN NEEL dairy parlor, McPherson county, is equipped with hot and cold running water and live steam for cleaning and sterilizing.



TURNING LEVER on downspout delivers measured grain to cows. A sliding panel containing grain trough serves as headboard for holding cow in stanchion.

Take Drudgery Out of Dairying



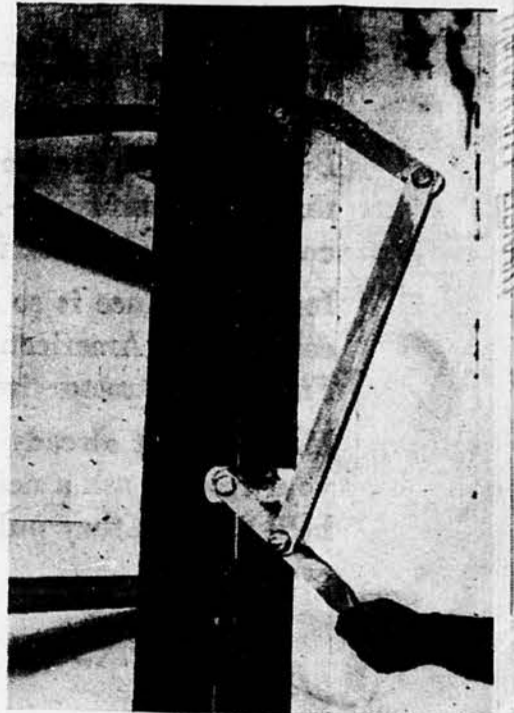
... As easy to milk 30 cows as 15 with this laborsaving barn

THE DAY already is at hand when most of the drudgery can be taken out of milking cows. We recently saw this proved at the Ailiff Neel farm, in McPherson county. Mr. Neel is milking cows at the rate of one every 2 minutes in a new 6-stanchion dairy parlor. The parlor provides for 3 cows in line on each side of a pit, and milk goes direct from cows by pipe line to a 200-gallon cooling tank in the milk room.

Here is how the new type milking parlor takes the drudgery out of milking:

1. All feed is rolled (not ground) in a feed room next to milking parlor and elevated into an overhead bin that covers the entire milking parlor area. Downspouts at each stanchion deliver grain in measured amounts merely by pulling a lever on the spout. The grain trough is built in at the bottom of the stanchion headboard. This head-

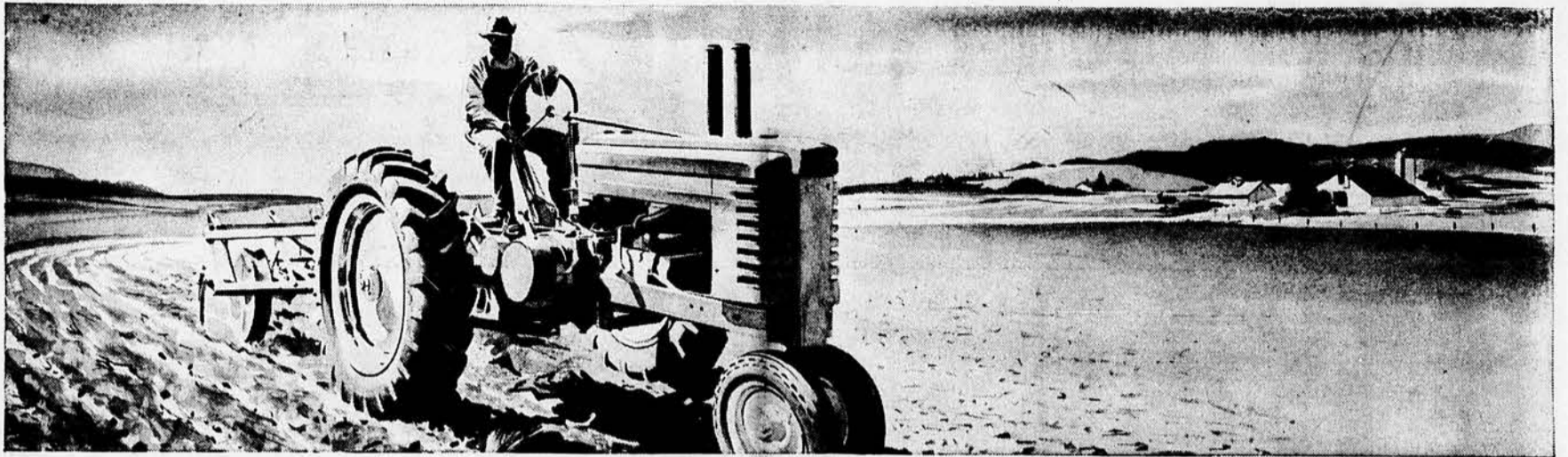
[Continued on Page 21]



FLIP OF THIS LEVER opens doors so cows can enter parlor. Operator never leaves pit to get or release cows.

- 22 Lakes Ready for You Page 6
- What About Grain in Storage? Page 8
- Just Right for Berries Page 23

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GOODYEAR

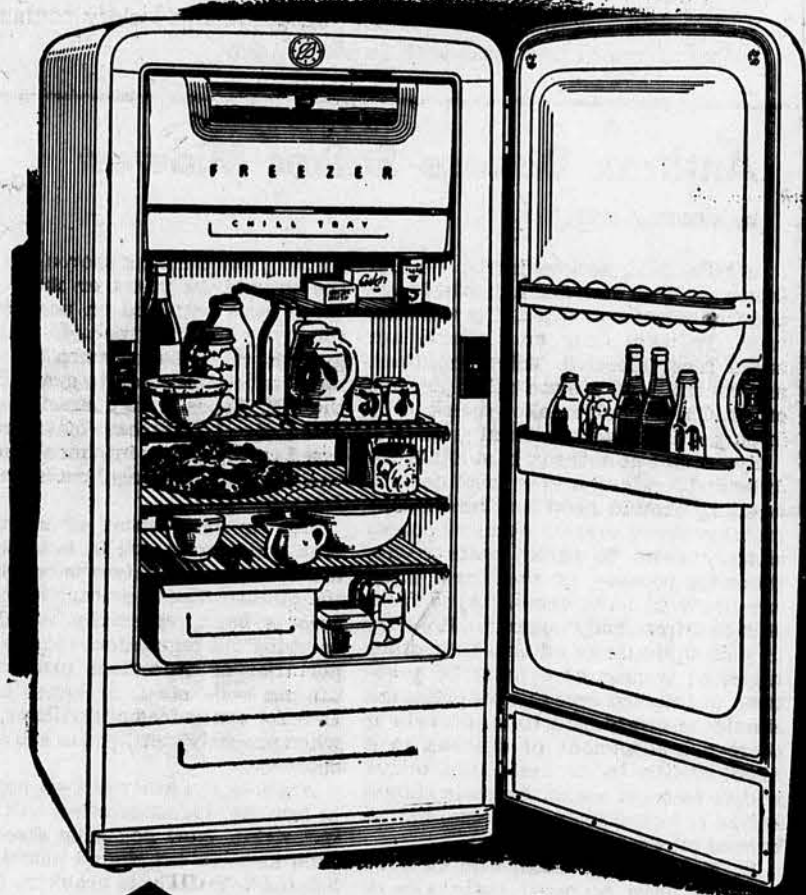


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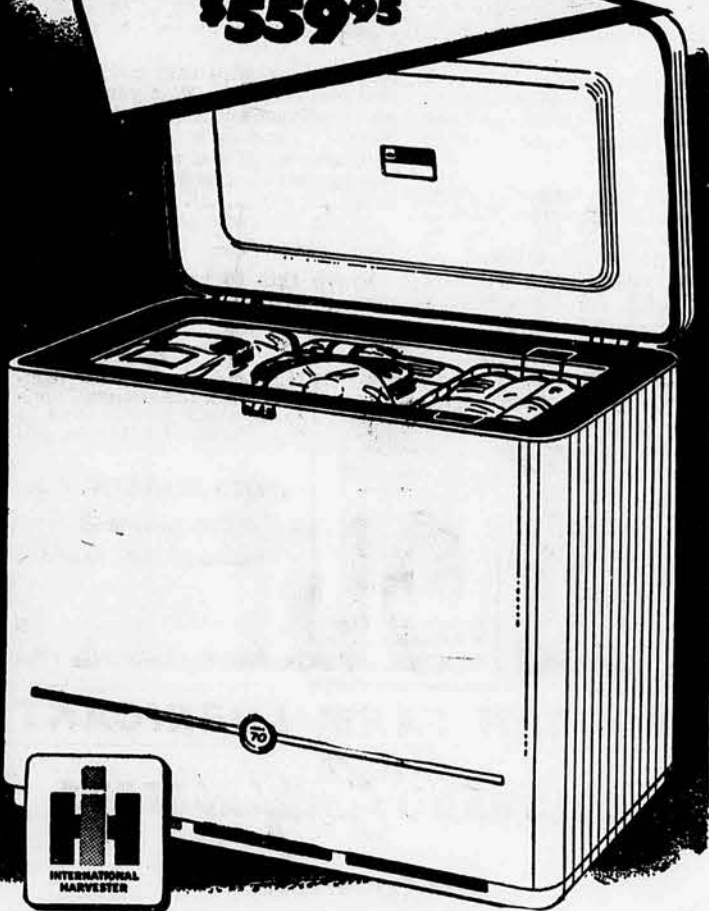
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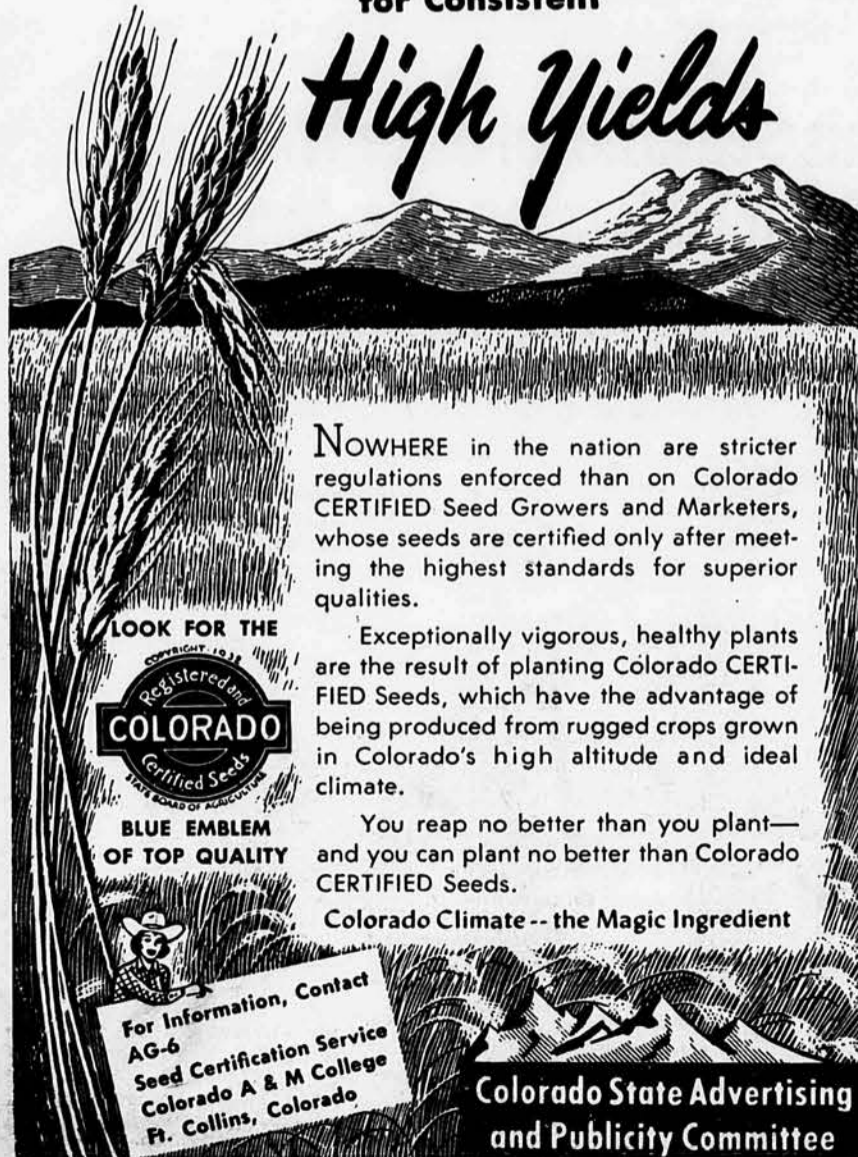
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FACTS ABOUT ANTHRAX

Anthrax is one of largest microbes known, yet 5,000 of them placed end to end would extend only one inch!

The second book of Moses in the Bible mentions a "grievous murrain" disease, believed by medical historians to be anthrax.

Shaving brushes have killed men! Brushes made from anthrax-infected horsehair from Far East countries caused deaths of 20 soldiers during World War I. Present regulations prevent such deaths.

Anthrax is a great killer of elephants; in one year in Burma 5,000 died. First U. S. case of death from anthrax-infected elephant tusks was in 1947. A man who worked in a piano-key factory contacted anthrax from cutting tusks with an electric saw.

Anthrax Disease Strikes Midwest

By GORDON WEST

ANTHRAX, serious infectious disease attacking man and animals, is appearing in several states. Kansas, Missouri, Indiana, Ohio and Illinois are areas most affected. All precautions and control methods are being put into effect. Chief troublemaker seems to be imported infected bonemeal products.

Symptoms of anthrax in animals are difficult breathing and in most cases a swelling around head and neck. Animals are likely to froth at mouth, occasionally seem to choke quite badly, probably because of swellings. They are likely to have hemorrhages from skin and from body openings. It's easy to pick up anthrax on shoes, or other ways, so utmost care must be practiced in infected areas. A veterinarian should be contacted immediately if there are suspicions of anthrax in a herd. Death in animals can occur within 24 to 36 hours. Animals should not be removed from the farm, but be burned on the premises.

In Kansas, Franklin and Cowley counties have reported outbreaks of anthrax. Three animals have died and hundreds of animals have been quarantined. All efforts are being taken to stop spread of anthrax in the state. *Kansas Farmer* for May 3, 1952, brought you a complete story on a state-wide meeting held April 18 in the office of the Secretary of the State Board of Agriculture at Topeka. Strong action was taken concerning anthrax control in Kansas. A. G. Pickett, state livestock sanitary commissioner, says there is no reason to expect any general outbreak in Kansas. The state has been relatively free of the disease for 50 years. First record of anthrax in U. S. was in 1834, in Pennsylvania. Annual loss from the disease in U. S. is \$750,000.

Most Livestock Can Get It

Practically all livestock are susceptible to anthrax. Cattle, horses and sheep are most commonly affected and develop the disease in the acute form, with a resulting high death rate, comments U. S. Department of Agriculture. Hogs acquire the disease for the most part in a chronic form, from which they frequently recover. Infection is taken in principally with feed and water, but the germ also may gain entrance thru the skin and the respiratory tract. Once in the body, germs multiply rapidly.

Vaccination affords an excellent means of holding losses to a minimum. Authorities say it is 95 per cent effective. Care in feeding processed bonemeal to livestock is important—to date, no improperly processed Kansas bone meal has been found. It is believed infected bone meal imported from foreign countries is cause of trouble in several Midwest states. A third line of defense against anthrax is measures to prevent introduction of infection on anthrax-free premises by roaming dogs and feed from infected premises and keeping livestock off the most dangerous parts of infected premises. Certain areas can be fenced off.

Anthrax is essentially a soil-borne

malady, and anthrax spores can live in the ground 40 years or more. Many cases have occurred on pasture land, following hot, dry summers with scant growth of herbage, when non-vaccinated stock have had to graze close to the soil. Bones from domestic animals which die of the disease often are processed unknowingly into meal and if fed to livestock, such meal could cause infection.

Due to seriousness of anthrax to man and animal, the U. S. is doing all it can to prevent entrance or spread of the disease. The Secretary of Agriculture is being especially watchful in carrying out regulations to prevent importation of bone meal, products containing bone meal, or bones into the U. S. for use as feed or fertilizer, except when properly sterilized to kill anthrax spores.

Anthrax is a killer of man, especially in tanning, transportation and woolen industries. New scientific discoveries, such as sulfa drugs and penicillin are helping to solve this problem. In agricultural anthrax, man must be especially careful as it is extremely easy to pick up anthrax germs; a drop of blood from an infected animal carries hundreds of germs.

Aerial Farming

Aerial farming played a part in the 20th annual Northwest Kansas Implement and Tractor Show at Colby May 1 and 2. Four airplanes were among exhibits of tractors, trucks and farm machinery and equipment. On May 2, 120 Kansas "Flying Farmers" were guests at the show.

Looks Neat, Too

A piece of linoleum glued to floor of car trunk makes it easy to slide luggage and other articles in and out without scratching them.—Mrs. L. H.

KANSAS FARMER

Continuing Mail & Breese

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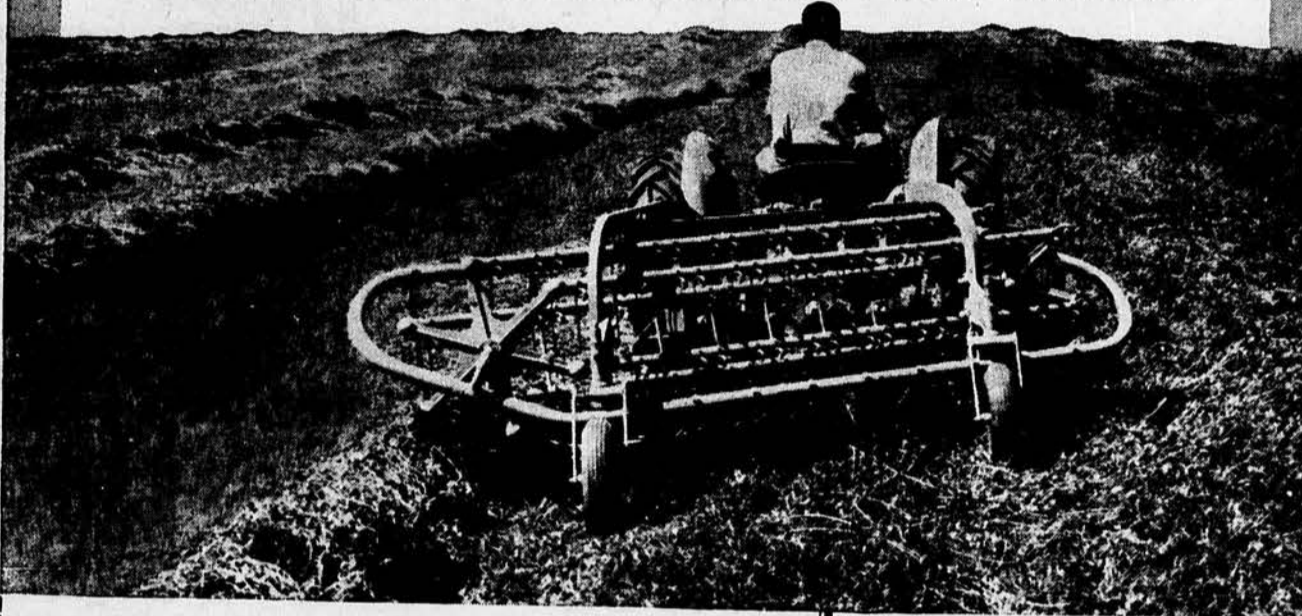
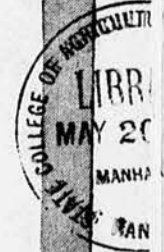
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The shorter the distance from swath to windrow, the better the hay! *Better* because it retains more protein- and vitamin-rich leaves.

That is the principle which guided Ferguson engineers in designing the new Ferguson Side-Delivery Rake. Result: a rake that delivers hay from swath to windrow in *half* the distance required by other rakes.

The six-bar offset reel of the Ferguson Side-Delivery Rake gently lifts the hay and, with true *sideward* action, carries it to the windrow in light, fluffy masses that cure more evenly. There is far less leaf-shattering impact, less agitation, than with other rakes.

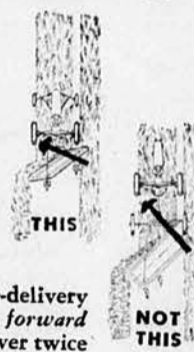
Not only this, but raking is more thorough. It has been demonstrated that the Ferguson Side-Delivery Rake can follow an ordinary rake and get more hay on the second raking than was obtained on the first. One farmer reported that the hay he salvaged this way in a single cutting was more than enough to pay for his new Ferguson Side-Delivery Rake.

Your Ferguson Dealer has a free folder on this rake. Ask for a copy. At the same time, let your Ferguson Dealer arrange a demonstration on your farm. Chances are, you'll buy this amazing rake on the spot, and wish you'd done it sooner.

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Offset Reel with
TRUE SIDEWARD
RAKING ACTION
Moves Hay
from Swath to Windrow
in Half the Distance!

Ferguson 6-bar offset-reel design moves hay truly *sideways* along the reel toward windrow.



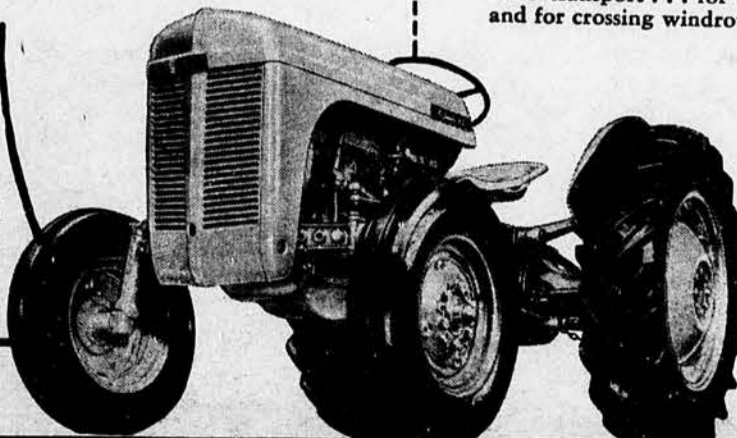
Conventional side-delivery rake moves hay *forward* and *sideways*... over twice the distance of a Ferguson.

With the Ferguson, you get gentler action... less shattering... more nutrition-rich leaves.

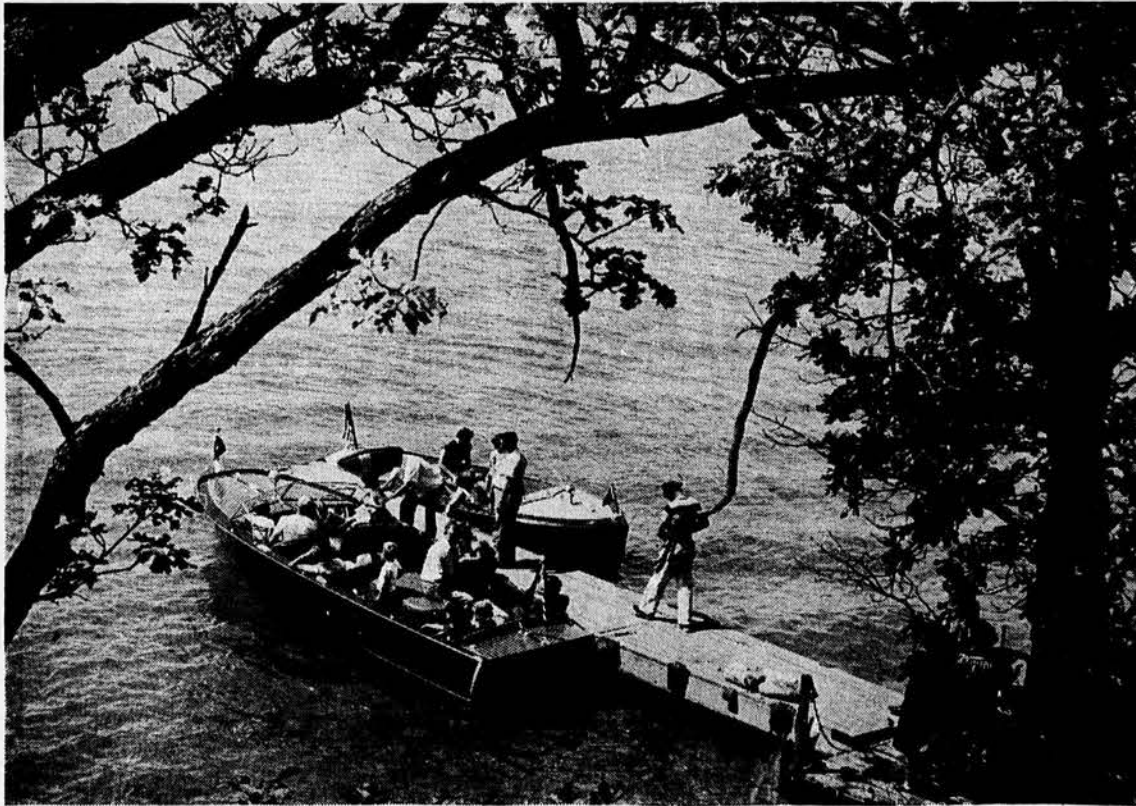
And don't forget this! The Ferguson Side-Delivery Rake is finger tip controlled... lifts hydraulically for faster, safer transport... for shorter turns and for crossing windrows!

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with the one and only Ferguson System
Be sure to ask your Ferguson Dealer for a "Showdown" demonstration of the new and far more powerful Ferguson "30"... the tractor that meets more of the needs of more of the farmers more of the time!

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FERGUSON TRACTOR AND 63 FERGUSON SYSTEM IMPLEMENTS



(Pictures courtesy Kansas Industrial Development Commission)

These 22 Lakes Ready for You

So why not enjoy the thrills of boating, fishing, swimming and picnicking frequently in your beautiful Kansas!

By **DICK MANN**

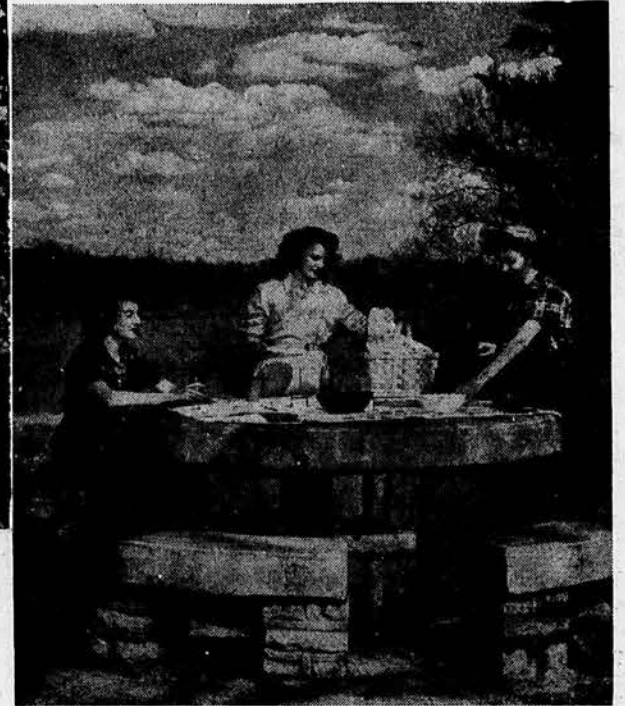
THIRTEEN THOUSAND acres of lakes and parks in 22 state parks are just waiting for you to enjoy them this summer, according to Dave Leahy, director of the Kansas Forestry, Fish and Game Commission. The 22 state parks have been acquired and built under supervision of the commission since 1925.

"This year," says Mr. Leahy, "you and your family can enjoy the luxury of boating, the thrill of fishing, the zest of swimming, or just the friendship of nature, without ever leaving Kansas. Because hunters and fishermen have provided the money that made these lakes and parks possible, they have not been developed along city park lines or equipped with facilities that make extended stays possible. However, all parks are equipped with day-use camping and picnicking facilities and, if you want to hang around longer you usually can find cabin camp facilities within a few miles of any of the 22 lakes."

[Continued on Page 34]

AT LEFT: Fast motorboat rides may be enjoyed at Kanopolis reservoir. Rowboats are rented at many state parks. Walleyed pike from Minnesota are being put in at Kanopolis and Fall River.

BELOW: Picnic facilities range from plain to fancy in Kansas state parks. These girls are enjoying an outing at an Eastern Kansas lake.



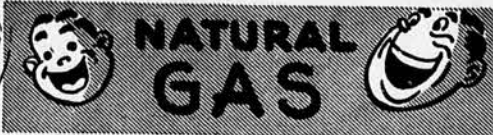
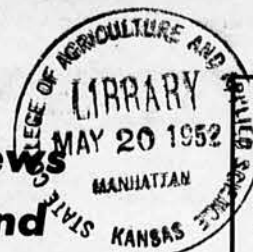
ABOVE: Most state lakes now are stocked with bass, crappie, blue gill, channel cat, drum and bullheads. White bass can be found at Cedar Bluff, Fall River and Kanopolis.

BELOW: One of scenic spots in state is Clark county state park, shown here. Its 337-acre lake provides exceptionally good fishing.



Kansas Farmer

News
and
Comment



"Green paint may be removed from white pants with a bottle of ordinary turpentine, a stiff brush, and a pair of scissors."

"A bachelor's life is just one undarned thing after another."

"Frustration—a horsefly sitting on the radiator of a truck."

"All work and no play makes jack, and plenty of it."

"The bigger the summer vacation the harder the fall."

"Sure, the pen is mightier than the sword, if you've got both of them."

"Success," said the preacher, "is supposed to be getting what you want. Happiness, however, is wanting what you get."

"What a confusing world to little folks when you tell them blackberries are red when they are green."

Agronomy Days Next

ALWAYS SOMETHING new and interesting going on at Kansas State College. Right now folks there are getting ready for Agronomy Field Days, to be held Monday and Tuesday, June 2 and 3. Dr. H. E. Myers, head of the department of agronomy, reports the college is inviting Miami, Franklin, Osage, Lyon, Morris, Dickinson, Saline and Ellsworth counties and south to be their guests on Monday, June 2. All counties to the north are invited for Tuesday, June 3. However, if one day suits you better than the other, Doctor Myers says they will be pleased to have you at your most convenient time.

Field activities will start at 1:30 p. m. each day at the Agronomy Farm. One of the very new things you will see and hear about is Krillium, the material recently released as a soil conditioner. Also, you will see results of application of fertilizers to the leaf of wheat in comparison to applying the same amount and type of fertilizer to the soil in the conventional way. Plenty of opportunity will be afforded to see new and improved varieties of wheat, oats and winter barley. Fertilizer work with wheat and oats will be given special attention.

While there is no scheduled program in the morning, we suggest you make a day of it and spend the morning on the college campus. Get better acquainted with your agricultural college and its personnel, rated among the best in the Nation.

Good Will Ambassadors

SEVEN GOOD WILL ambassadors have been chosen from 4-H Club ranks to represent Kansas overseas this summer. These fine young folks are winners of the annual International Farm Youth Exchange awards, something with which you are familiar. You will recall Armin Samuelson, then of Topeka, was first IFYE winner. He wrote letters to *Kansas Farmer* which you read in 1948. Evelyn Haberman, Heizer, and Stanley Meinen, Ruleton, wrote to you thru *Kansas Farmer* in 1949. Our 3 overseas correspondents in 1950 were Ivan Schmedemann, Junction City; Mary Lou Edwards, Manhattan, and H. Dale Johnson, Salina. Then last year, 1951, Donna Cowan, Emporia, and Warren Prawl, Severance, sent us such interesting reports about their travels and experiences.

So far these alert 4-H'ers have told you how folks work and live in Scotland, England, France, Sweden, Belgium, Luxemburg, Germany, Holland, Switzerland, Wales and Finland. After returning from overseas each one made a great many talks to interested groups. No

doubt you feel even more friendly than ever toward those neighbors across the ocean because our young folks lived with them and brought back with them a better understanding of their hopes and ambitions. And the reverse is just as true. Because our 4-H'ers lived with them, folks overseas have a clearer understanding of our hopes and ambitions. And it isn't at all strange that they are the same. We all want peace, and freedom to work and worship according to the dictates of our hearts and minds. Without question this IFYE program is doing a worthwhile service.

The 7 grass roots ambassadors going overseas from Kansas this summer include: Nadine Entrikin, Abilene, who goes to Finland; Jack Grier, Cairo, to Norway; Marion Tongish, Hurdon, to Austria; Daniel Petracek, Oberlin, to Greece; Irlene Rawlings, Eureka, to Scotland; Joan Engle, Abilene, to Denmark, and Joan Shaver, Goodland, to Ireland.

Kansas Farmer again is inviting members of this group to write letters to all of us, telling about the people they meet, how they live and farm. Watch for these letters in coming issues.

Our Kansas Constitution

WITH SO MUCH CONCERN recently regarding whether the Administration in Washington and all of us are living up to the Constitution of the United States, our Constitution should be recommended reading for every citizen of this country. It is the greatest document of its kind ever written. We owe a great deal to the men who worked it out so carefully. After studying it you will know in your own mind whether we are living up to its full meaning.

That brings up another thought. What do we know about the Constitution of Kansas? A little pamphlet from the Kansas State Historical Society contains some facts that will be of interest to you. It relates that during the 7 years Kansas was a territory 4 conventions drew up state constitutions. First 3 failed of adoption, largely because of the fight over slavery. The fourth, called the Wyandotte Constitution, is the foundation of our state government.

Sixteen farmers had a part in writing it, as well as 18 lawyers, 8 merchants and 3 doctors. Most of the 52 delegates to that state convention back in July, 1859, were young men—16 were under 30 years old and only one was more than 50. They completed their work in 24 days.

They should have remained in session a day or so longer to reconsider one decision: Kansas women, when they asked for the right to vote, were told "woman has already sufficient care and responsibility in attending to her domestic arrangements." But the men learned later on.

Sometime when you are in Topeka make it a point to see this original Kansas Constitution. It is on display at the State Historical Society building.

It Can Be Done!

CAN YOUNG FOLKS get a start farming for themselves? This question has been answered many times thru stories in *Kansas Farmer* telling how it has been done in father-son partnerships, young couples starting out on their own, returned servicemen winning success, Vocational Agriculture and 4-H Club projects growing into profitable herds. It can be done.

More evidence comes in this statement: "All 3 state winners this year in the Kansas Balanced Farming and Family Living program are young couples. They have demonstrated their

ability to develop a farm business substantial enough to give their families comforts and conveniences as they grow up. In each case, the farmer and his wife have taken full advantage of late information on farming and home-making."

Winners for 1952 are: Mr. and Mrs. Julian Buer, Concordia, Cloud county; Mr. and Mrs. Norman Alloway, Edna, Labette county; and Mr. and Mrs. George Birkenbaugh, Cleveland, Kingman county. The project recognizes farm and home progress that provides an adequate, stable income, and a comfortable, congenial home. It is sponsored jointly by Kansas State College and the State Chamber of Commerce.

Sunflower May Help

KANSAS' MOST FAMOUS plant—the sunflower—some day may help relieve humans suffering from cancer.

A sunflower research project now is underway at George Washington Carver Research Foundation at Tuskegee Institute, Alabama. Sponsor of the work is the Damon Runyon Cancer Fund.

There are many scientific and industrial uses for sunflowers and their by-products. *Kansas Farmer* for February 16 brought you a complete story on this fabulous flower—one of the most famous state flowers in United States.

Correction

IN A REPORT on anthrax disease in *Kansas Farmer* for May 3 it was stated 3 dairy cows have died from this dangerous disease. Three beef cows, not dairy animals, have died.



Going All Out To Produce Enough Nitrogen!


Maybe you aren't getting all the nitrogen fertilizer you need. The fact is there just isn't enough to meet today's demand. Phillips is producing at full capacity . . . doing everything possible to ease the shortage. So keep on the lookout for Phillips 66 Ammonium Sulfate (21% Nitrogen), Phillips 66 Prilled Ammonium Nitrate (33% Nitrogen), or Phillips 66 Agricultural Ammonia (82% Nitrogen). They're high nitrogen fertilizers . . . require less time and work in handling and applying.

PHILLIPS CHEMICAL COMPANY
A Subsidiary of Phillips Petroleum Company, Bartlesville, Oklahoma

SIDE DRESS CORN AND SORGHUM WITH NITROGEN

When corn or sorghum are 12 to 18 inches high that's a good time to side dress with nitrogen fertilizer.

Next to moisture, nitrogen is the greatest factor influencing corn and sorghum yields. Tests show that your land gives up about 150 pounds of nitrogen for every 100 bushels of corn it produces. So for bigger yields, it is important to keep putting nitrogen and other plant foods back into the soil.

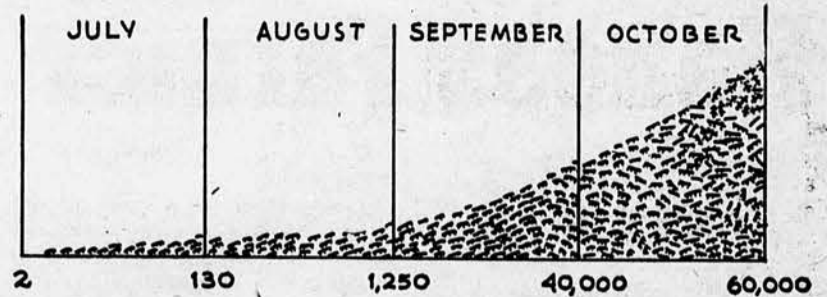


FOR HIGHER YIELDS USE PHILLIPS 66 HIGH NITROGEN FERTILIZERS!

Phillips 66 Ammonium Sulfate and Prilled Ammonium Nitrate are free-flowing, easy to spread or drill. Phillips also produces Agricultural Ammonia (82% Nitrogen) for direct or irrigation application.



Answers to Dollar-Saving Questions on Care of Grain in Storage



THIS CHART shows rapid increase of weevils. One pair can multiply to 60,000 in 4 months. Wet grain is easier to feed on and a much better weevil home than dry wheat.

QUESTIONS AND ANSWERS prepared by Kansas Wheat Improvement Association, Manhattan, from information from U. S. Bureau of Entomology and Kansas State College publications.

Q. Why all this fuss about grain storage cleanup?

A. First, weevils and rats eat more than 5 million dollars worth of grain a year in Kansas. Second, Food and Drug Administration says we'll have to keep bugs and rat filth out of grain we expect to sell for food.

Q. How much is this cleanup going to cost?

A. Labor is biggest cost. Chemicals to spray and protect wheat will cost 3c or less a bushel. Savings in grain will more than pay this cost.

Q. Do wooden storage bins have to be discarded?

A. No, stored grain can be kept clean and sound in wooden, steel, or concrete bins by following the 5-point program given in this article.

Q. How many kinds of stored-grain insects are there?

A. Eighteen or twenty. One group eats inside the kernel; the other, outside.

Q. Where do grain-storage insects come from?

A. Mostly from bin walls, old grain, and rubbish around storage buildings. They multiply very rapidly. In farm bins of wheat in Reno county (near Hutchinson) tests by scientists showed one male and one female increased to 60,000 bugs between harvest and November 1.

Q. What's best way to keep insects and rats out of grain bins?

A. By following the 5 points outlined in this article.

Q. Why is 4 to 6 weeks before harvest best time to clean up and spray bins?

A. Because there are fewer bugs then and it's easier to kill them when bins are empty.

Q. Must bins be repaired first?

A. Repairing will stop grain from leaking under floors, between walls, and into cracks where insects and rodents feed and breed. Mending roofs will prevent wet spots in grain where weevil thrive.

Q. Are there other reasons for cleaning up bins and premises?

A. First, to destroy feeding and breeding places of stored-grain insects and rodents. Second, to make a clean surface to put residual spray on. Sprays serve as traps that kill bugs when they walk on sprayed surfaces. A spray put on dirt can come loose. The better the trap the better the catch.

Q. What spray material is best?

A. A 2½ per cent solution of DDT or Methoxychlor applied 2 gallons per 1,000 square feet works well. Walls

should be wet but not to the point of runoff. Sprays containing ½ of 1 per cent pyrethrins also have been effective.

Q. How many years do infested wooden walls have to be sprayed before grain-eating insects are eliminated?

A. Cleaning and spraying 3 years in a row have cut weevil damage down to nothing.

Q. How much do rats and mice destroy?

A. A lifetime meal ticket for one rat costs a farmer over \$2. And that's not the only loss. Deposits of pellets and filth in food cereals is a health menace forbidden by Food and Drug Administration.

Q. But how can one get rid of rats and mice?

A. 1—By cleaning up or destroying unnecessary hideouts. By stacking lumber or grain doors at least 10 inches off the ground. 2—Repairing buildings to make it difficult for them to nest. 3—Using poison baits. Warfarin baits are excellent.

Q. What is best way to use Warfarin?

A. Rodents have to eat Warfarin 7 to 10 days before it kills them. A good supply of Warfarin bait should be kept in self-feeders for 10 days or 2 weeks.

Q. Will rats come back once they are cleaned out?

A. Yes. When hideouts and nesting places are near, self-feeders should contain poison.

Q. Do pigeons and sparrows contaminate food grains?

A. Yes. Guns, traps and poison baits are best weapons to keep them from it. Great caution must be used with poisons to avoid killing song birds and pets.

Q. How do you prevent grain spoilage?

A. By waiting until grain in field is dry before starting combine, or by forcing air thru grain in bin. (Using the sun is cheapest and best when possible. So don't rush harvest.)

Q. Do weevils multiply faster in wet grain?

A. Yes, much faster. Wet grain is easier to feed on and a much better weevil home than dry wheat.

Q. What is highest moisture content wheat can have and still be stored safely?

A. Wheat stored at 12.5 to 13 per cent moisture is said to be safe if air currents and hot pockets do not form.

Q. How can a bin be prepared so air can be blown thru grain?

A. By putting air ducts in before filling. Write Kansas State College, Manhattan, for Circular No. 12 on grain drying and full details.

(Continued on Page 9)



Kansas Dealers

- ABILENE—Cruse Tractor Co.
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- HADDAM—Rooney Motor Company
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- HIAWATHA—Rite-Way Farm Equipment Co.
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- MARYSVILLE—Anderson-Boss Impl. Co.
- MEADE—Wolfe Motor Co., Inc.
- MEDICINE LODGE—Sprout Tractor & Implement Co.
- MINNEAPOLIS—Edmands Tractor & Implement Co.
- NESS CITY—Roth-Beutler Tractor Co.
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- OAKLEY—Shaw Implement Co.
- OBERLIN—Kump Motor Co.
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- ONAGA—Wentz Tractor & Impl. Co.
- OSAGE CITY—Osage County Motors
- OSBORNE—McCammion Tractor & Implement Co.
- OTTAWA—Price Implement Co.
- PAOLA—Tom Crawford Tractor & Impl. Co.
- PLAINVILLE—Plainville Impl. Co., Inc.
- RUSSELL—Russell Trac. & Impl. Co.
- SALINA—Kansas Trac. Sales Co.
- SCOTT CITY—Western Hardware & Supply Co., Inc.
- SEDAN—Wall Tractor & Equipment Co.
- SENECA—Fuller Tractor & Impl. Co.
- SMITH CENTER—Jones Tractor Sales & Service
- TONGANOXIE—Laming Tractor & Implement Co.
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- ULYSSES—Phifer Motor Co.
- VALLEY FALLS—Modern Tractor & Implement Co.
- WAKEENEY—Midwest Marketing Co.
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- WELLINGTON—Sumner County Tractor & Impl. Co.
- WICHITA—Taylor Tractor Co.
- WINFIELD—Stuber Tractor & Impl. Co.



Q. Why does wet grain spoil?
 A. Because molds on outside and germs on inside of kernel cause it to break down and spoil.

Q. What is fumigation of grain?
 A. Gassing insects by surrounding kernels with a poisonous, heavier-than-air gas.

Q. How tight do bins have to be for fumigation?
 A. The tighter a bin the easier it is to hold a poisonous gas long enough to kill. Loose, leaky bins require much larger doses of fumigants.

Q. How is gas applied?
 A. By spraying or squirting a liquid fumigant on top of bins of grain. The liquid turns to gas and settles thru grain.

Q. When should one fumigate?
 A. It's best to kill parent weevils before they hatch thousands of offspring. Fumigate new grain 4 or 5 weeks after harvest; old grain, if it needs it.

Q. How much more fumigant does grain in loose bins need?
 A. Here's the amount to use per 1,000 bushels:

Size of Bins	Wood	Concrete or Steel
Farm Bins	4 to 6 gal.	2 to 3 gal.
Elevator Bins	3 to 4 gal.	2 to 3 gal.

Q. Does grain high in moisture content require more fumigation?
 A. Yes, 60 to 100 per cent more.

Q. What is most common reason for poor kills in fumigation?
 A. Not using enough fumigate. Eggs and all bugs will be killed with amounts just mentioned.

Q. Are fumigants dangerous to people?
 A. Yes. Men applying them should wear gas mask or squirt it on from a distance.

Q. Is there a chemical dust that will protect stored grain from weevils?
 A. Yes, a new dust protectant can be mixed with wheat as it is binned. Good results have been reported by scientists using 75 pounds of dust for 1,000 bushels of grain, and it does not harm the milling quality of grains.

Q. Will this protectant stop heating and spoiling of wet grains?
 A. No. Scientists have yet to find a chemical satisfactory for keeping wet grain.

THE 5-POINT PROGRAM

To help Kansas keep its reputation for good milling grains, follow the 5 steps of:

- 1—Cleaning up
- 2—Spraying
- 3—Controlling rodents
- 4—Harvesting dry grain or drying it in the bin
- 5—Using a wheat protectant or fumigate.

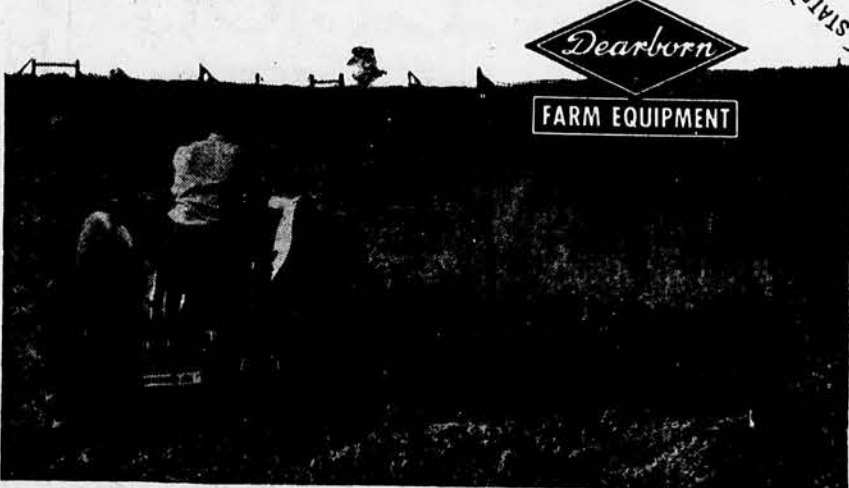
Learn the 5 points so you can tell your neighbors how to avoid losses and how to keep quality of their grains. Community-wide action is needed to maintain the state's reputation for quality grains.

Kill Orchard Pests

Protecting orchard plantings from diseases and pests will mean more and better fruit, and higher profits. For tips on this, write us for a copy of "Growing an Orchard in Kansas," a publication of the Kansas Experiment Station. Ask for Bulletin 337. No charge. Address Farm Service Editor, *Kansas Farmer*, Topeka. Your order will be given prompt attention.

Put Up Top Hay

...for extra Meat, Milk, Money!



DEARBORN Rear-Attached MOWER "Clips Hours"—as Well as Crops

Here's proved help, to enable you to harvest your hay crops at peak feed or market value. The big capacity Dearborn Rear-Attached Mower can be attached to the Ford Tractor in only 8 minutes. Its quiet operation is evidence of fine design and quality construction—to speed cutting of heavy hay crops (or tough pasture weeds). Cutter bar lifts and lowers with Ford Tractor Hydraulic Touch Control. Choose 6 or 7 foot cut.



DEARBORN Side Delivery RAKE Gets Sun and Wind to Help!

The Dearborn Heavy Duty Side Delivery Rake makes fluffy, easy-to-pick-up windrows—with gentle pushing action (instead of whipping!) by its proper raking angle and the floating ground-driven reel. Thus leaf shattering is greatly reduced—for this action tucks leaves inside the windrow while inverting stems to get fast curing cooperation from sun and wind. Has 8-foot raking width.

Say "WHEN" to Your Ford Tractor dealer . . .

to schedule your demonstration of the Ford Tractor and these or other Dearborn Implements, that can mean lots to you in '52 and from then on!

DEARBORN MOTORS CORPORATION • Birmingham, Michigan
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NO WINTER WATER FREEZE-UPS

● Operates valve—and drains—BELOW frost line! All inside parts removable without digging. Threaded 3/4" spout.

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NEUTRALIZES CHEMICALS

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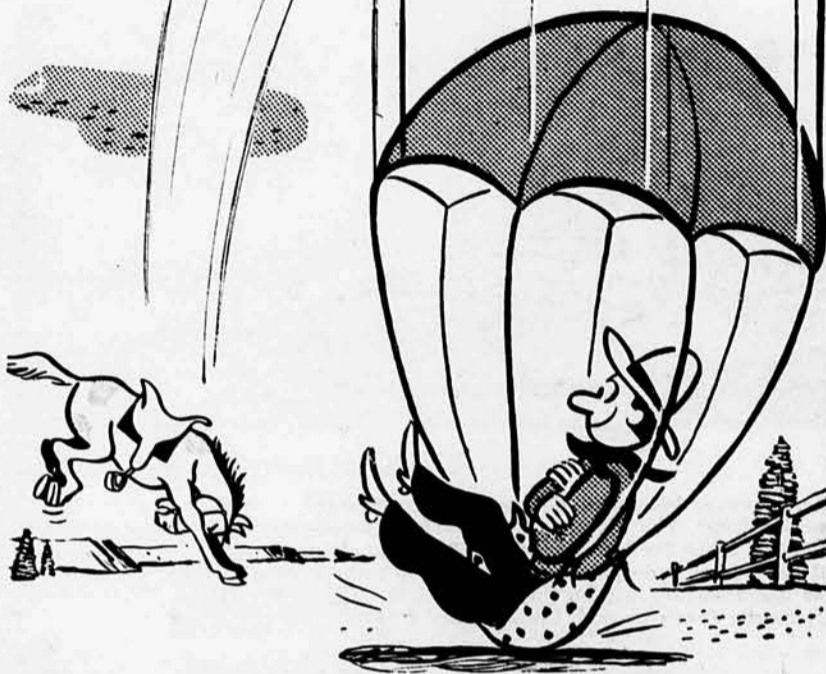
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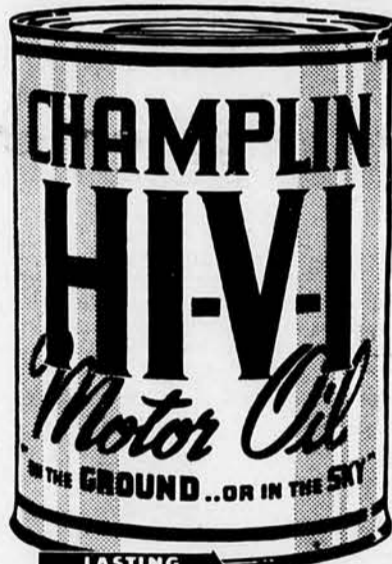
You get Extra Protection With HI-V-I Motor Oil!

Farmers! Protect the investment you have in farm machinery, by giving engines the extra protection afforded by HI-V-I motor oil!

HI-V-I cleanses engines of sludge; keeps them running cooler by removing unused heat of combustion; prevents much corrosive wear by its resistance of oxidation as temperatures increase.

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FAMOUS HOL-DEM FENCERS are guaranteed to hold all your stock, even on driest ground. Hol-Dem delivers the wallop in all soil and weather conditions—controls stock the year 'round on thousands of farms. "Weed Kutter" feature kills weeds on contact!

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Satisfaction or your money back. Write for FREE folder with prices on Hi-Line and Battery operated units. Save money, work and time . . . order today!

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Thoughts TO LIVE BY

"The Peace of God"

SOME YEARS AGO, Joshua Liebman wrote a book entitled "Peace of Mind." It was a good book, but not necessarily a great one. Yet it achieved a phenomenal sale. Its title sold it, for men wanted peace of mind. If they could get it by buying a book, it was a bargain. And so "Peace of Mind" became a best seller.

Perhaps Rabbi Liebman wrote the book to minister to his own need. Many a clergyman preaches to his own need, and some physicians have become psychiatrists because of their own problems rather than the needs of others. At any rate, Doctor Liebman died of hyper-tension. Did the peace of mind about which he wrote elude him?

Perhaps it is a good thing he didn't find it, for peace of mind is not as desirable as it seems. Someone has described it as "bovine lethargy." Just imagine being so satisfied with one's environment there are no signs of conflict. Progress would be arrested. Life would become static. Moses, Copernicus, Socrates, Pasteur, and Thoreau were out of step with their generations. But they marched to the beat of the celestial drummer. On one occasion, Jesus said, "Now is my soul troubled; and what shall I say? Father, save me from this hour: but for this cause came I unto this hour." On another occasion, he wept as he thought about the course Jerusalem had taken. He was so much in conflict

with the prevailing patterns of his day he died on a cross. Altho he spoke about peace and bequeathed it to his disciples, he certainly didn't have peace of mind.

But he did have the peace of God. In the presence of danger, he had the divine resources to conquer natural fear. As we read about his trial before Pilate, we feel it was Pilate, and not Jesus, who was being tried. The peace of God is confidence in the presence and power of God. In the midst of turmoil, one can stand heroically. Participating in a whirlwind of activities, he has a heart of central calm. This is the peace that blesses the crusader for social righteousness, and the soldier who fights oppression. It is the peace that enabled the dying Jesus to think about the soldiers, his fellow-sufferers, and his mother and friend before he thought about his own anguish and pain. This is not the passive peace of death, but the active peace of life which we can take into the daily round of activities.

To the Philippians, Paul wrote: "And the peace of God, which passeth all understanding, shall keep your hearts and minds through Christ Jesus." The Greek work for keep in that quotation portrays a soldier standing guard over some persons or object. There it is. Even in tumultuous times, the peace of God stands guard over our hearts and minds. May it always be our portion.
—Larry Schwarz.

COMING, NEXT ISSUE . . .

How to make a lamp shade from an old frame is the subject of the full-page feature story in the home department of the next issue of **Kansas Farmer**. Complete directions are given step-by-step with the help of photographs. We know many homemakers and 4-H Club girls will be interested in reading this feature. Watch for the June 7 issue in Kansas Farm Home and Family department.

Who Won Beef Production Contests

WINNERS of annual beef production contests were announced May 3 at annual Feeders Day program, Kansas State College, Manhattan. Winners of the various contest divisions were:

Deferred Feeding—O. E. Danielson and Son, Lindsborg; W. L. Murray and Son, Mound City; Arthur and LeRoy Frey, Little River, and G. F. Samp, McCune.

Creep Feeding—Gaylord and Ralph Munson, Junction City; Walter and William Bitterlin, Milford; T. A. Campbell and Son, Beloit.

Feeder Calves—Shorthorns: A. B. Moll, Little River; R. L. Grant and Sons, Wilsey; Angus: Lucy Kumberg, Sawyer; Nile Bray, Concordia; Palmquist Brothers, Lindsborg, and Warner Ranch, Dodge City; Herefords: V. W. McMinimy, Sitka; C. C. Peister and Son, Croft; Jim W. and R. R. McCullough, Medicine Lodge; T. H. Warwick, Medicine Lodge.

Winners were presented plaques by Kansas State College, the Kansas City, Mo., Chamber of Commerce, and beef breed associations.

Breed trophies were won by Lucky Kumberg, Sawyer, Angus, and V. W. McMinimy, Sitka, Hereford. Paul B. Gwin, K-State extension agent in Geary

county, was presented a gold watch for "having done the most outstanding job of promoting beef production systems in 1951.

Certificate winners in deferred feeding were: Eichorn Brothers, Oswego; F. J. Raleigh, Clyde; Tom Means, Everest, and Walter and William Bitterlin, Milford. In creep feeding: William True, Paxico; Charles K. Atwater, Neta-waka; Otto Hack, Baldwin, and Harry Steinfort and Son, Junction City. In feeder calves: O. W. Ash and Son, Medicine Lodge; Caleb Forsyth, Medicine Lodge; Briggs and Bailey, Mullinville; Harold W. Ellis, Coldwater; H. P. Parkin, Greensburg, and R. A. and Sid-ney Dorsey, Ashland.

Spray Fruit Trees

Fruit growers, protect your 1952 crop by using correct and effective sprays. Write us for a copy of "Spray Schedule for Home Fruit Production," a Kansas State College publication. Address Farm Service Editor, *Kansas Farmer*, Topeka.



Lowest-priced line in its field



LOWEST PRICED IN ITS FIELD!

This beautiful new Styleline De Luxe 2-Door Sedan—like so many other Chevrolet body types—lists for less than any comparable model in its field! (Continuation of standard equipment and trim illustrated is dependent, on availability of material.)

... and see how the savings go on and on!

Lots of people find it hard to believe that Chevrolet—so big, smart and comfortable—is the lowest-priced line in its field.

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smoother Knee-Action ride—and plenty more.

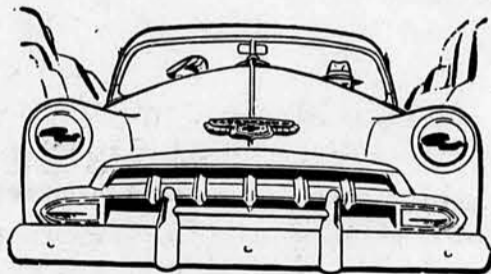
Now consider this. *The money you save on purchase price is just the beginning!* People who know will tell you that you just can't beat a Chevrolet for keeping costs down. Gas economy is good. It's thrifty with oil. And Chevrolet is famous for low upkeep costs.

Talk it over with your Chevrolet dealer. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.



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39-Year Proved Valve-in-Head Engine Design

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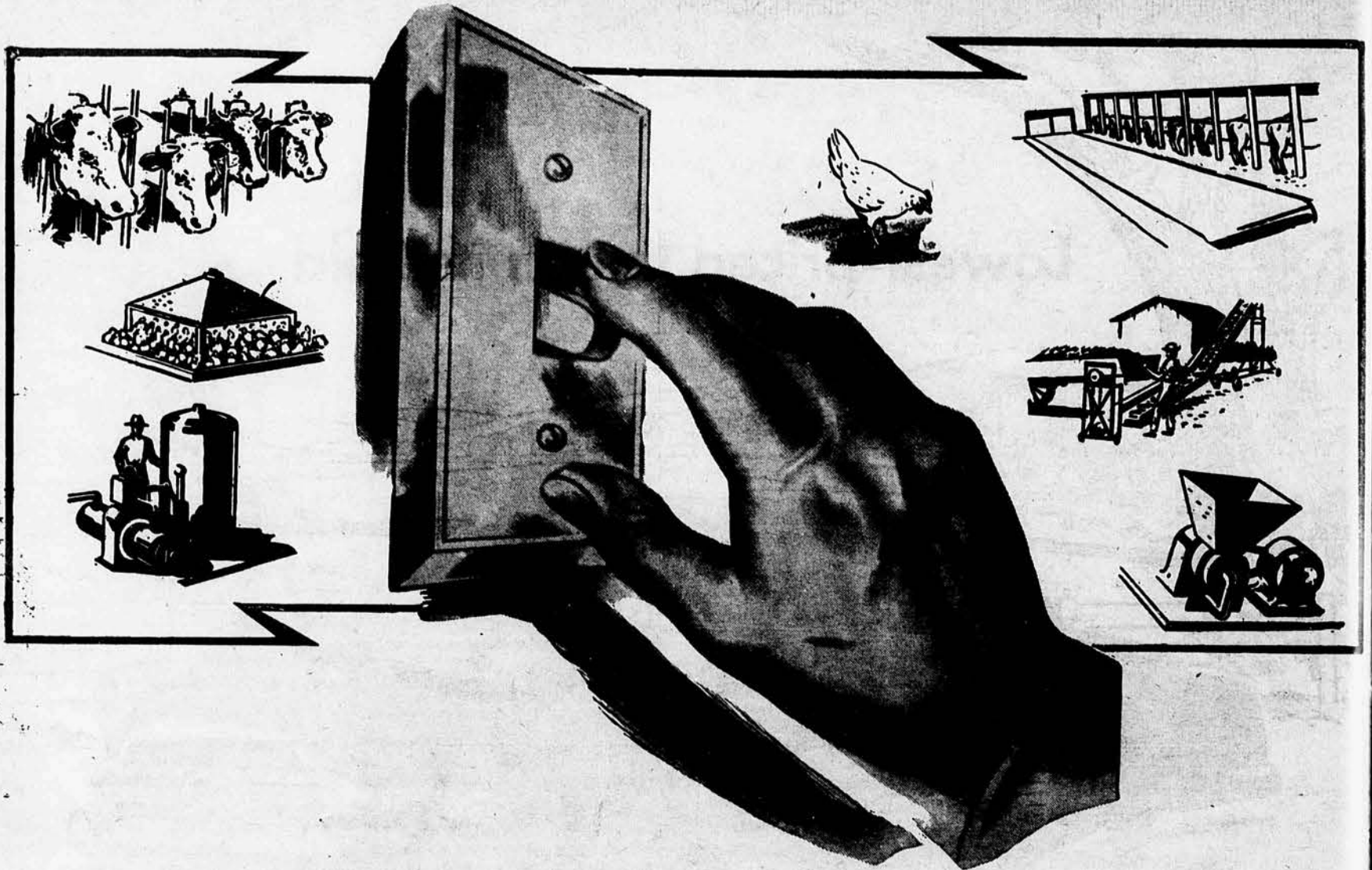
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Chevrolet's Jumbo-Drum brakes are extra large for greater stopping power with less pedal effort, less lining wear. Linings are bonded to brake shoes—no rivets. Lining life is practically *doubled*.

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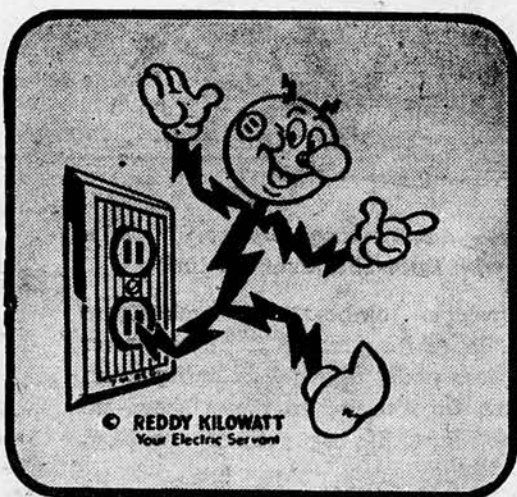
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He will assist you on specific problems such as hay and grain drying, dairy operations, feed processing and handling, or any of the over 225 ways electricity can serve on your farm. His services are yours, without obligation. Why not call him today? Likely he will be on the job in a few hours!



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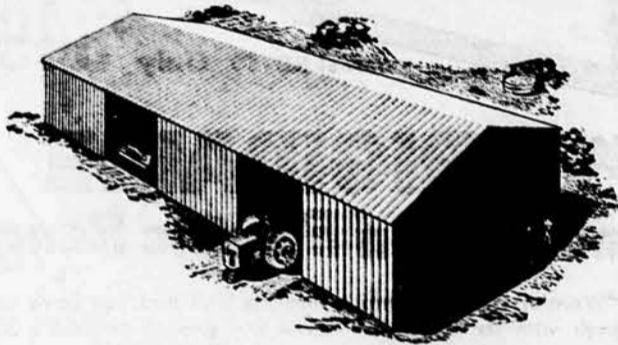
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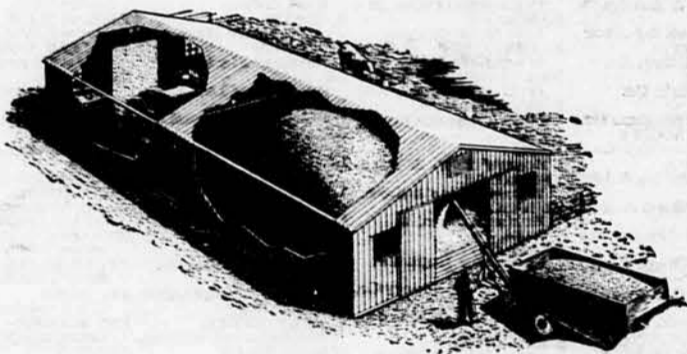
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Have You Found the Answer To Your Dairy Breeding Program?

By DWIGHT E. HULL

BREEDING DAIRY CATTLE artificially is becoming big business in Kansas and the world. Whether to use the program will depend on the individual. My observations are that more breeders or would-be breeders have become discouraged and fallen by the wayside because they failed to get a sire that would improve what they had, than for any other reason.

Since artificial breeding has caught on more or less like wildfire, many breeders are turning to it. But is this the real answer? I want to make myself clear here. I have no quarrel with artificial breeding. I think it is one of the biggest steps forward the dairy interests ever have taken. However, I think everyone who owns registered dairy cattle should own or look forward to owning a sire of his own.

First Step to Take

So the first step a beginner should take is to breed artificially, and begin to study breeding history in the make-up of bulls from which he is getting semen. And at the same time familiarize himself with other outstanding performers of the breed, both male and female. Of course, he should maintain at all times complete performance records on his cow herd, as this is essential to any breeding program. And I would like to say here, if there are those who are not keeping and studying records on their herds, they are missing by far the greatest pleasure that comes to the man or family that milks cows on the farm.

As his heifers mature from his artificial breeding and he begins to get their records, he probably will discover daughters of one bull is outstanding in his herd. It is then, in my judgment, if he has studied his lesson well by reading carefully his breed magazine, by using every opportunity possible to talk with successful breeders and his field

representative of the breed, he should find and purchase a herd sire.

He should purchase a sire because he will want to follow and intensify one line of breeding. He should be ready to purchase a sire because he has or should have learned all sires do not have ability to transmit high production; and that just because a bull is from a high-producing cow, or the bull's sire was a grandchampion at some leading show, or his sire sold for so many thousand dollars, is not a criteria for transmitting ability. He should have learned he needs to know a lot about the production and reproduction ability of as many of the ancestors of the sire he is going to purchase as possible. And the more information he gets on the close-up ancestors of a sire's sire and sire's dam, the better off he is.

He then is ready to start on a breeding program of his own. Start out by using his sire sparingly until he has tested some of his daughters and knows what the sire is going to do for him. At the same time keep on using semen on some cows from the bull that did the good job for him.

Need a Good Bull

There seems to me no other way to become a successful breeder, other than by owning the best sire one is able to find and buy. Undoubtedly there will be some who will immediately say, "I can't afford to own a sire and breed artificially, too." Well, about all I have to say to that man is that he has "flunked his exam." He failed to study his lesson well. The price of a sire that will increase the performance of what you have is immeasurable, and a head start on the road to a successful breeding program. The price of hit-and-miss breeding is a side road without many road signs. The price of a sire that decreases performance of what you have is a blind alley that leads to failure.

Much Better Quality Tomatoes Come From Staked Plants

By WILLIAM G. AMSTEIN, Kansas State College

MORE QUALITY TOMATOES can be produced in most Kansas farm gardens if plants are supported to stake or frame, and are sprayed at regular intervals thru the season. Not much if any pruning is needed, especially where light foliage varieties are used. This is the group that usually sets fruit best or at least earliest.

Small-vined determinate or semi-determinate varieties like Sioux or Firesteel will not need to be pruned. However, they will produce much better quality fruit ordinarily if both foliage and fruit are kept from contact with the ground. Tomato plants staked or supported will not produce any more fruit, but twice as many usable tomatoes will be grown as where plants are left on the ground. Actually it is not the number of tomatoes produced but rather how many can be used that really counts.

An Extreme System

Systems of pruning and staking tomatoes vary a good bit. The most extreme system (practiced principally by some market gardeners) is pruning to one stem. All side shoots or suckers are removed. If these shoots are removed when plants are young they can be broken out without serious injury to plant. The single stem is then supported usually by means of a stake or a string suspended from a wire. Plants are often set closer but the fruiting season is shortened. A heavy yield is obtained in a short time.

In most plantings the individual fruits on plants supported or kept off the soil ripen more uniformly and are of good

color. However, they may be injured by sunscald. In this system plants are commonly spaced 1 1/2 to 2 feet apart in the row. This heavy pruning requires extra labor that cannot be justified unless space is limited or an extra premium is paid for high-quality early tomatoes.

The single-stem system is practiced only where plants are grown under best of market or home garden conditions. A modification of this system, developed in Missouri, is suggested to provide a little more needed foliage protection. The shoot arising from the leaf axil below a flower cluster is allowed to develop until 2 leaves have formed, then the terminal end of the shoot is removed. Additional foliage provided is very helpful.

Less pruning or pruning to 3 shoots or stems, rather than to one stem, works much better in most farm and town gardens. Plants may require a little more space in the row, but the harvest season is extended and damage from sunscald should be greatly reduced. Some gardeners top or pinch out plants when they reach height of stake, trellis or support to throw all energy into fruits in first clusters.

Tomatoes Are Protected

Many gardeners stake or support tomatoes without pruning them. If any pruning is done, it is only to make the job of supporting the plant a little easier. A short stake 36 to 48 inches long is driven beside the plant and all the branches are tied loosely to the stake. This system holds the first 3 or 4 clusters of fruits off the ground. By

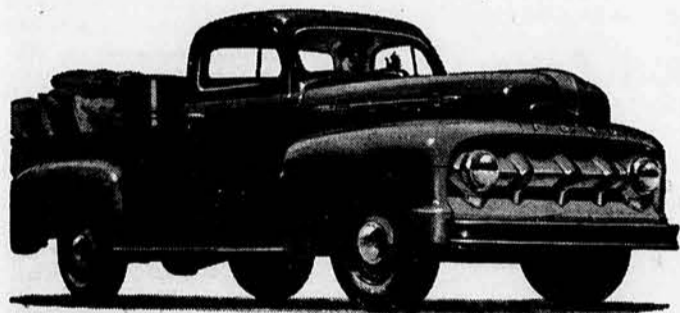
(Continued on Page 16)

New Ultra-modern Low-Friction truck engines give you Gas Savings ^{UP} _{TO} 14% in New Ford Trucks for '52!

Advanced new LOW-FRICTION design LIBERATES POWER ordinarily held "captive" by engine friction! IT SAVES GAS! It saves wear!

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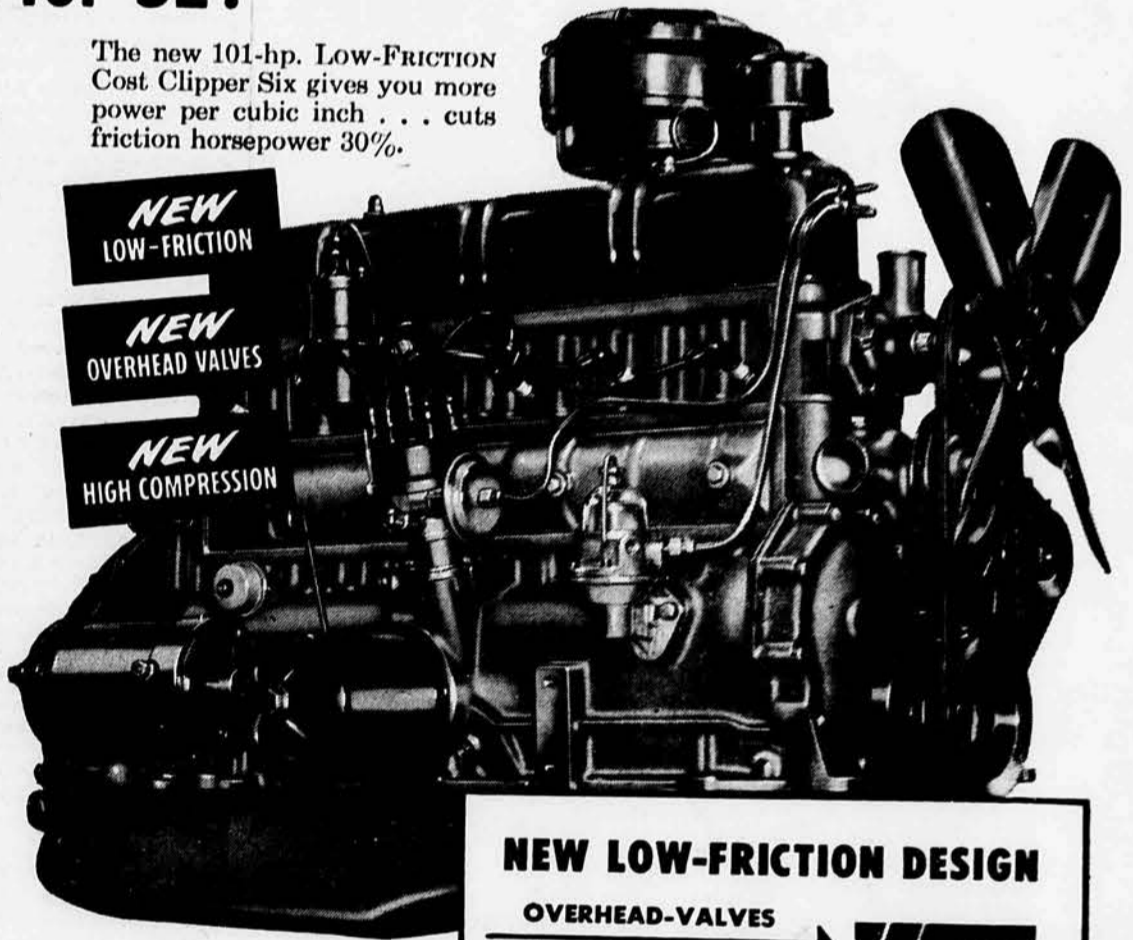
Ford Low-FRICTION design is the greatest advancement in truck engine design since the V-8! It incorporates new direct-breathing OVERHEAD-VALVES for efficient fuel feeding. It gives you new HIGH-COMPRESSION for extra wallop to meet today's farm hauling needs. Here's truck engineering at its ultra-modern best, something your Ford Dealer will be proud to tell you more about today!



FROM PICKUPS TO 155-HP. BIG JOBS, Fords cover every farm hauling need. Five great truck engines—101-hp. to 155-hp. Choice of V-8 or Six. Three new Low-FRICTION engines. Increased power in two famous workhorses—239-cu. in. V-8 and 254-cu. in. Big Six.

Availability of equipment, accessories and trim as illustrated. Is dependent on material supply conditions.

The new 101-hp. Low-FRICTION Cost Clipper Six gives you more power per cubic inch . . . cuts friction horsepower 30%.



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Authorities estimate that weeds will cost the average Kansas farmer up to 20% of his income this year. Who can afford that loss? Now is the time to protect your investment with Colorado .44 2,4-D and 2,4,5-T. These Colorado .44 twin killers are deadly to weeds, mesquite and brush, yet harmless to true grass. Get Colorado .44 weed killers and insecticides now—in all strengths and combinations—for economy, high percentage kill and longer lasting protection.



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No. 10 in flower series written by a man who grows them by the acre

You'll Like Old-fashioned Flowers

By FRANK PAYNE

STYLES IN FLOWERS change, much like women's clothes. Maybe not quite as often, but they do change. Some flowers are changed by improvements in color or type, while others stay the same as always.

Two kinds of old-fashioned flowers still very popular are CELOSIA, (common name is cockscomb) and GLOBE AMARANTH, (common name is bachelor's-button). Both are easily grown from seed sown in late May when the ground is warmed up. They make good cut flowers when fresh, or you can dry them for winter bouquets.

You can get cockscomb in various heights and colors. The large, crested "CELOSIA cristata" grows tall with bright red flower heads and rich green foliage. If you like dwarf, get "Empress nana" type. They are only 10 inches tall with dark-bronze leaves and huge combs of deep, velvety crimson.

You also can get newer and improved types of Celosia. One is called "CELOSIA CHILDISI" or Chinese woolflower. It looks like a handful of wool that has been dipped in paint. Comes in bright red, pink or yellow. Grows 2½ to 3 feet tall and makes lovely fresh cut flowers.

Thanks to a Farm Woman

Now, leave it to the women to make much-needed changes in flowers and new colors to suit their individual taste. Seems there was a little lady up in Northern Illinois who became tired of looking at only red cockscomb. She got busy and worked patiently for more than 25 years to hybridize a strain of new colors. Her varieties are identified by the name of "GILBERTI." They come in shades of red, green, yellow and rose, and all with an overcast of gold. They are very beautiful and well worth trying if you want something new and different. The Gilberti strain grows from 2 to 3 feet in height. The culture is the same as for older types.

Here is some advice on how to dry them for a winter bouquet. Cut when in full bloom. Strip off all foliage, then hang with the flower head down, in a dry place where there is circulation of air. Reason you hang the head down is so the comb will hold its shape when fully dried. It also is very important that each head be hung separately, be-

cause if you tie them in a bundle or even if a flower head is allowed to touch another an ugly brown spot forms which makes a bad-looking dried flower. It takes about 2 weeks for them to dry, then they can be made into a lovely bouquet. You also can add mixed grasses and bittersweet, which is a nice filler.

Do not fertilize or plant celosia seed in soil that is too rich in new fertilizer. It will do better in just average garden soil. Sow seeds thinly on top of loose soil and press into the soil with a flat board. No covering of soil is then required. The seed is quite small, a real shiny black. You can thin plants later when they are 3 inches tall so they are at least 6 to 12 inches apart. They can be easily transplanted if you do it before they are over 6 inches tall. That is as easy to do as planting tomatoes or cabbage plants. Celosia grows very slowly the first 6 weeks. They need plenty of moisture at all times, so be sure to water when there are dry spells. Very little cultivation is needed except to keep weeds and grass away.

About Bachelor's-button

GLOBE AMARANTH or GOMPHRENA GLOBOSA: The common name for this flower is "bachelor's-button" but do not get them confused with blue corn flowers which are sometimes called bachelor's-button. Globe Amaranth has clover-like flower heads which dry well to make everlasting or winter bouquets. They come in many colors—white, pink, red or violet. The strawlike flower heads are about ¾-inch across. They bloom from midsummer until frost.

Can be used as a fresh cut flower or dried for your winter bouquet. Just cut, tie in bundles and hang upside down in a dry place. They can be put in a vase by themselves when dried, or mix with strawflowers.

Globe Amaranth are easy to grow. Just sow seed in a shallow furrow right where you want them to bloom. Any time in May is O.K., in warm ground.

I like winter bouquets made from the various everlasting flowers you have grown in your flower garden. Maybe that is because I am a flower grower.

(My next and last article of this series is about ZINNIAS.)

Much Better Quality Tomatoes

(Continued from Page 14)

this method, fruits most likely to be injured by wet weather, and most valuable early fruits, are protected. This is the system I prefer, especially for light-colored varieties. The method serves to place a canopy over the fruits as their weight causes them to hang below foliage.

In tying branches to stake, use a coarse soft twine or strips of cloth. Do not tie plant so tightly as to girdle the stem or keep fruit from growing out normally in size and shape. Three to 5 or more ties may be needed on the average plant to obtain desired results.

Mulching is another practice that can be used to advantage in tomato growing with or without staking. However, both work well together. In addition, less hoeing and better soil moisture prevails with mulch system.

Foliage diseases which have caused the greatest loss to Kansas tomato growers in recent years are Septoria leaf spot and Alternaria early blight. Some years there are severe outbreaks of nail head spot and anthracnose. Late blight was very serious for many growers during 1950. Control of all these diseases is dependent upon proper use of sprays—that is, right material, proper time, and thoro coverage of foliage. These needs are met by following a reg-

ular spray program. In case of cool, wet weather frequent applications are necessary to keep new growth covered and to replace the spray washed off by rain. During hot, dry weather, spray applications can be made less frequently.

First tomato spray to foliage in the field should be applied when plants are a foot high. Use a fixed copper according to manufacturer's direction. Such materials as COCS, Basicop, Kopper King and others are in this group. Another spray needs to be applied when first fruits set on, and other sprays should follow at 10-day intervals. Usually, in recent years, 5 to 7 sprays have been needed.

Other materials that can be used in place of fixed copper sprays are Zerlate, Parzate, Phygon or Bordeaux. In each case directions on package should be carefully followed. Ordinarily Bordeaux mixture should not be used until after fruit is set. However, earlier protection is needed. Thoro coverage of foliage is very important.

A dust schedule can be followed but must be applied at least once a week for good results. Too many plants are set out with disease showing on them. These plants should be sprayed or dusted at once to prevent further spread of the disease.

PURINA

CHECKERBOARD NEWS

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GRAY SUMMIT, MO.—One ingredient can sometimes make a powerful difference in the value of a ration . . . this was definitely proved to us in a recent experiment at the Farm. Three lots of 55 hogs were fed rations that differed only in the amount of one ingredient. One ration, which had the recommended amount of the ingredient, grew hogs that averaged 230.8 lbs. at 5½ months. Another ration that didn't have any of this ingredient grew 198.4 lb. hogs. Both are good results, but figured on a ton basis, five dollars worth of the ingredient made fifty dollars worth of extra pork.

* * *



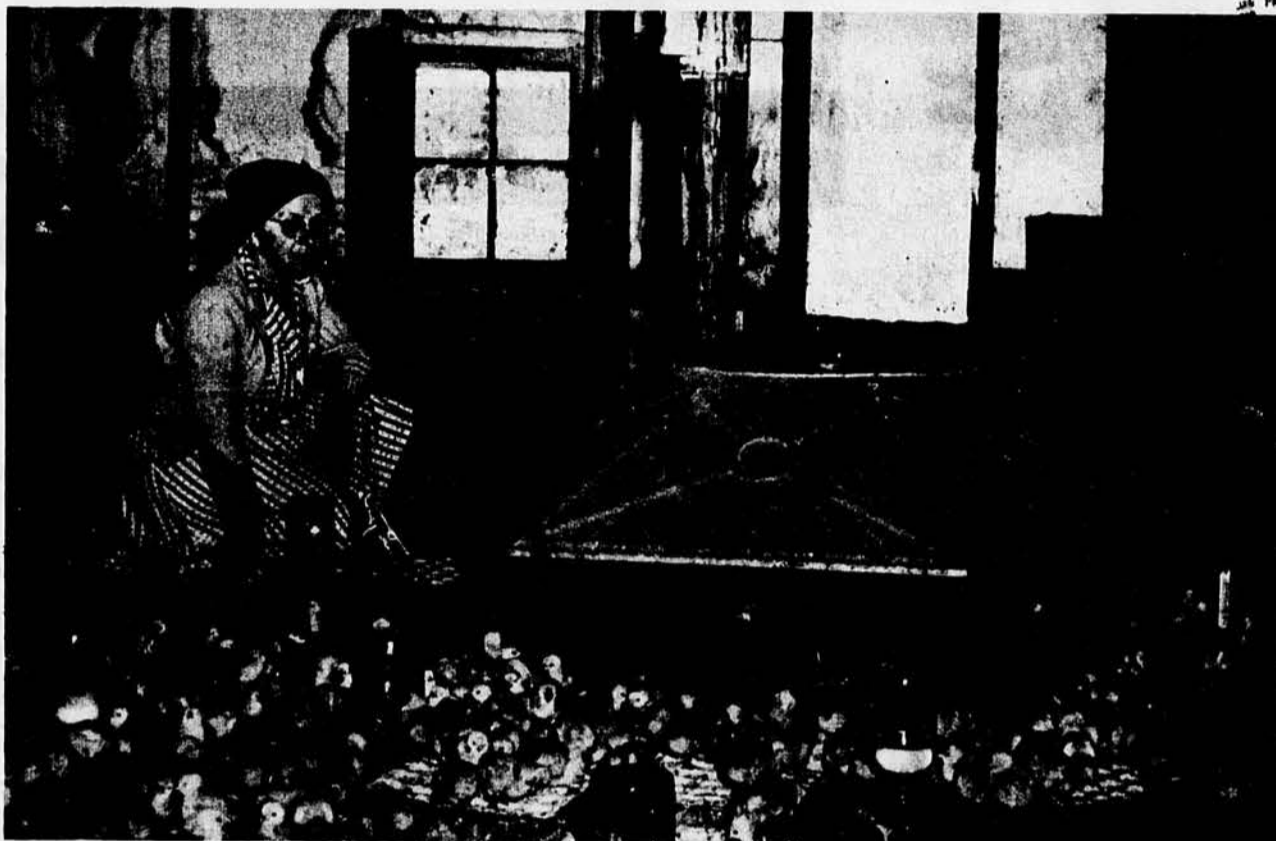
To reach this "pay-off point" we strive for top livability in addition to fast and full development of pullets. Last year we grew more than 98 per cent of the chicks started to six weeks. Of 400 six-week-old pullets started in Growing Experiment Sixteen, 397 were housed at 18 weeks—that's a loss of only .75 of 1 per cent.

* * *

Here's a progress report on debeaking broilers. Tests with 16 pens of broilers at the Farm indicate that debeaking chicks does not reduce feed efficiency or weight, yet does help solve the feather picking problem. Over 2,000 broilers were fed to 7 weeks. Half of the birds were debeaked at hatching, half were not. The average weight and feed efficiency for both groups were almost exactly identical.

* * *

Although rabbit does may kindle 12 or more young, we let only 8 suckle. This we find gives better average growth and helps keep the doe in good condition for future litters. Doe No. 848 is a good example. Her second litter of eight rabbits weighed a total of 38.1 lbs. at 8 weeks. This makes an excellent average of about 4¾ lbs. per rabbit.



Anderson County woman diversifies poultry income

by J. H. McAdams

GARNETT:—"I've been keeping layers for more than 20 years," Mrs. Margaret Hamilton told me, "but it's only in the last 4 or 5 years that I made any worthwhile money from poultry. My trouble was in keeping too small a flock to justify giving them much attention.

"Four years ago I raised 500 turkeys in addition to caring for my laying flock. The layers did better than ever before, and by dressing the turkeys and selling them at retail I netted \$3.47 per bird for my work. This convinced me it was best for us to operate on a sizeable basis and to give more time to each phase of our poultry."

In following up this decision the Hamiltons stepped up their laying flock to 500 birds. Each year they raise about 500 turkeys. When brooder houses are not filled with replacement pullets or with poult they are filled with broiler chicks.

"Folks around here say I have a 'knack' with poultry," laughed Mrs. Hamilton, "but actually there isn't a thing about it they couldn't do just as well, if they would try hard enough. If the chicks are from good stock and are properly hatched, I'll raise 'em. I'm a stickler for keeping

things clean and sanitary. Then I want the very best feed, and to me that means Purina."

Mrs. Hamilton then took me around the farm to see her chickens and equipment. A blizzard was howling that late March day, but inside the 14' x 30' brooder house a thousand week old New Hampshire chicks were cheeping contentedly as they lined up at feeders to eat Startena Checker-Etts. Two days earlier she had removed newspapers that had been spread



"Folks say I have a 'knack' with chickens, but with good chicks, good care and good feed my neighbors could do just as well."

"These early pullets will be laying in July. The March chicks should be at their best through September, October and November."

over the peat moss litter at the start. She was using Chek-R-Tabs in the drinking water as an aid against spread of common diseases.

Then as she moved me along we paused briefly at a door while she knocked to let the birds know we were coming. In front of the door there was a foot pad saturated with disinfectant that we stepped on before entering the house. "Here," she said, "is a brood of straight run New Hampshires that are now 8½ weeks old. There were 609 in this lot at the start, and there are 606 here now. The pullets out of this lot will be laying in August. They'll be moved to an alfalfa range as soon as this blizzard blows itself out, and will be grown on a ration of Growing Chow and grain. The cockerels will stay right here for two more weeks and will be finished on Broiler Chow. That group of younger pullets should be laying in September."

Mrs. Hamilton then took me to see a group of 8½ weeks old White Rock broiler chicks. Here there were 599 chicks remaining out of 611 placed under the hovers.

With a poultry operation of this kind Mrs. Hamilton naturally calls upon her husband for a great deal of help, yet Mr. Hamilton is a general farmer, and to him poultry still is a sideline.



This Grain Shortage Problem

Here are practical suggestions to help you get more production and profit from a limited grain supply.

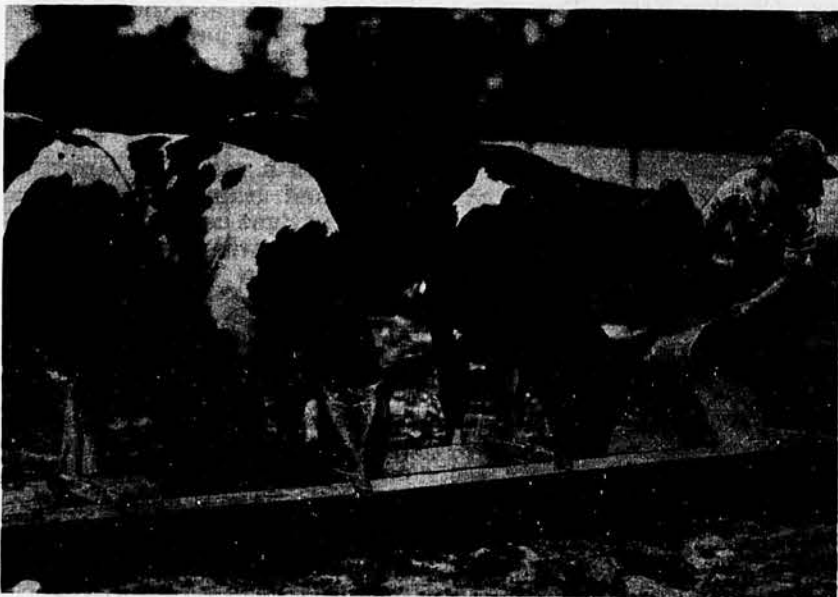
FARMERS and economists are concerned about grains! And grain shortages may be an important subject for years to come. Livestock numbers must keep increasing to keep pace with a rapidly growing population . . . an increase of over 2 million people per year.

Last year we used more corn and other feed grains than we raised. This fact, coupled with a short 1951 corn crop in the heavy-producing areas, makes feeding supplies short. So every farmer and feeder must get the most from every bushel of grain. That's the only way to stretch supplies and come out with a profit.

Corn is the big feed ingredient with about 45% being fed through hogs, 32% through beef and dairy cattle, about 19% through poultry and 5% through other livestock.

Here's how farmers can help stretch grain:

HOGS . . . At farrowing each pig in an average litter represents 140 lbs. of feed; at weaning each pig represents 260 lbs. of feed. When you wean only six pigs instead of nine, you've wasted approximately 780 lbs. of feed that better feeding and management could have saved.



Year-around pasture programs and preservation of surplus grass as hay and silage will stretch grain supplies. Beef and dairy cattle account for use of approximately one-third of the nation's corn crop.

Three ways to make 100 lbs. of Pork with good quality corn



- 1 12 bu. of corn
- 2 7 bu. of corn, 40 lbs. of tankage or soybean meal
- 3 5 bu. of corn, 45 lbs. of Purina Hog Chow on the Purina Program

Hogs consume the largest part of every year's corn crop—about 45%. With livestock numbers increasing annually, feeders must find ways to produce more efficiently and to stretch grain supplies.

A good pasture program and a supplement will help stretch your grain and cut production costs greatly. Following are the three accepted ways of making pork:

- (1) In drylot without supplement it takes about 12 bushels of corn to make 100 lbs. of pork.
- (2) Supplemented with about 40 lbs. of tankage or soybean meal, about 7 bushels of corn will make 100 lbs. of pork.
- (3) When supplemented with approximately 45 lbs. of Purina Hog Chow, many feeders produce 100 lbs. pork with only 5 bushels of corn on the Purina Program.

Figure this out at current prices

and see the difference it makes in costs!

Be sure pigs are kept free of parasites. Worm-infested pigs eat almost 50% more protein and supplement—take weeks longer to fatten.

Market hogs around 225 lbs. On the Purina Hog Program, good hogmen market animals at 200-225 lbs. in 5½ months. The U. S. average is 8 to 9 months to do the same job.

BEEF CATTLE . . . Use pasture to best advantage, being careful not to overgraze. Plan to have pasture available throughout the summer and late in the fall, as well as early in the spring.

Most pasture is deficient in minerals. More efficient gains, better condition result when mineral needs are supplied.

Without supplement and pasture about 17 bushels of corn of normal quality are needed to produce 100 lbs. of beef. It takes only 10½ bushels of corn and 75 to 80 lbs. Steer Fatena to put on 100 lbs. beef, according to a nation-wide survey.

Creep feed calves. Creep feeding helps save cow condition, because the calf is not dependent entirely on its mother and doesn't pull her down as much. Early gains on creep-fed calves are cheaper gains.

Control summer flies and grubs. Flies and grubs waste grain, too. Cattle fighting flies never gain as efficiently. Grubby hides and carcasses always result in lower prices.

DAIRY . . . Good pasture is a dairyman's ally in grain conservation. Plan now for dry-weather pasture with Sudan, brome or other drought-resistant grasses. Preserving surplus grass as grass silage is another means of stretching grains. Either a trench or upright silo can be used.

Animals not capable of producing at a profit should be culled at once and grain allotted to profitable animals.

LAYING FLOCKS . . . Cull broody hens and all those going out of production. Sell the entire flock if production can't be held above 50%. Developing pullets need every possible help so they'll be in condition for top production during the fall months while prices are highest.

KILL RATS . . . Declare war on rats! It costs about \$2 a year to keep a rat. Two laying hens can be fed for a year on the feed three rats will eat and destroy.

CONTROL INSECTS . . . Before storing grain be sure that bins are thoroughly cleaned and fumigated. Check bins at frequent intervals to make sure grain isn't heating. Heating is a sign of insect infestation or high moisture content.

YOUR PURINA DEALER is a good man to see for worthwhile suggestions and economical rations to help you s-t-r-e-t-c-h your grain supply. He has the products and programs to aid you in getting the most meat, milk and eggs from grain on hand. Be sure to see him next time you're in town.

PIG WEANING HINTS



by GIL FRONING, Manager, Hog Unit, Purina Research Farm

Cooperate with Mother Nature for better results at weaning. Wean at 9 weeks. This allows for two litters per sow yearly—the sows farrow during the same months each spring and fall.

Take sows away from the pigs at weaning time. There is less weaning set-back when pigs are not moved to new quarters.

Look the pigs over and isolate any that are obviously sick or abnormal. Of the remainder remove the *slow-going kind* weighing less than 40 lbs. and give 'em a push with Purina Pig Startena or Pig-Plus for 2-3 weeks.

Provide weaned pigs with good pasture. Did you know that pigs at weaning time make more efficient use of good pasture than at any other time of their lives.

Worm-treat at 12-14 weeks of age. Use Purina Pigtab Granules and follow directions for best results. You can't tell if a pig has worms by merely looking at him, so treat 'em all. Worm-treating often saves 20% in feed costs. Feed pigs—there's no profit in feeding worms!

Aim your pullets for the HIGH PROFIT MONTHS

As this chart shows you, egg prices for the past five years have always averaged 10c a dozen higher in fall and early winter than they do during the rest of the winter. That simply means that the poultry keeper who gets plenty of big eggs in September, October, November and December is almost sure to make a lot more profit than the farmer whose chickens do not hit their peak production until later on in the winter.

In fact, Purina Research Farm figures show that 100 pullets that laid well in early winter made at least \$20 more than an equal number of pullets that didn't hit their stride until after Christmas.

Everyone, of course, would like to have an extra \$20 income per 100 pullets. The question is—*how to get it?*

That's something you help to decide right now by how well you develop your pullets. If you loaf them through on anything but a top growing ration, they'll come into production. But they won't have the size and development to lay many eggs or very big eggs for several months. They have to wait until their bodies catch up.

On the other hand, when you use good management and feed growing pullets a well-balanced ration like Purina, they put on plenty of size. When they start to lay, they have everything it takes to make

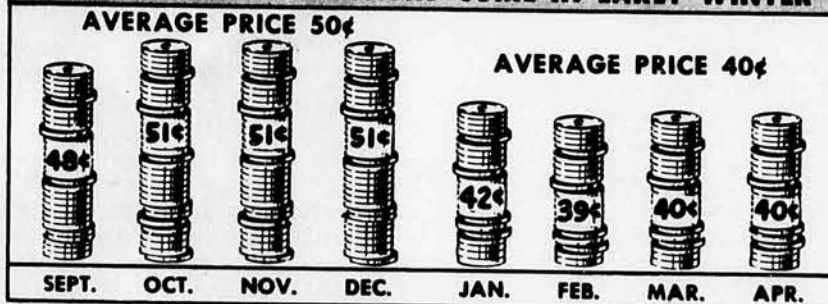


big eggs and lots of them during those months of high egg prices.

The difference in cost between a good ration and an "ordinary" one is very small. In fact, it often costs less to grow a pullet on a good

ration because it takes less feed to do the job. But what a difference in production during those important early months. Your Purina dealer can suggest a good ration to fit your needs.

THE HIGH PROFIT MONTHS COME IN EARLY WINTER



U. S. Average Farm Egg Prices, September 1946 to April 1951



Dry cow feeding made 2,500 lbs. more milk!

THESE two cows (No. 264 at top and No. 222 at bottom) are standout examples of early work done on dry cow rations at Purina's Research Farm.

About 20 years ago an experiment was set up with No. 264 and No. 222 in one of the nation's earliest tests with dry cow rations. Both cows had just finished their 5th lactations and were neck and neck production wise.

However, during No. 222's dry period she purposely was loafed through on pasture and an odd-and-end grain ration. She lost 50 lbs. in condition, which resulted in almost 2,000 lbs. drop in milk during her next lactation.

But No. 264 was fed the best experimental dry cow ration Purina Research could devise at that time,

gaining 105 lbs. in condition. This increase in body condition resulted in 500 lbs. more milk in her next lactation. *The difference between the two cows was a little more than 2,500 lbs. of milk!*

Numerous tests at the Farm have shown similar results. Holstein cows properly conditioned while dry will give about a ton more milk than those not conditioned. Breeds giving milk of higher fat content usually give somewhat less total milk.

These experiments along with tests from various college stations have helped convince dairymen that the dry cow needs special care. Successful dairymen report excellent results with Purina D & F Chow Supplement or Bulky Las and ground oats or barley. Ask your Purina dealer for complete details!



Take your feeding problems to your friendly Purina Dealer

FIND YOUR PURINA DEALER LISTED HERE

IT'S PULLET DERBY TIME AGAIN!

Drop in to your local Purina dealer's and you may see the Pullet Growing Race he's conducting right in his store. It's an educational exhibit to show how good feed like Purina Growena, or Growing Chow and grain, will help grow big, well-developed pullets. He'll keep the pullets right in his store until they lay — so you can see how well-developed pullets lay big eggs, and lots of eggs in the fall when egg prices are best.



KANSAS

- ABBEVILLE, Farmer's Elevator
- ABEYVILLE, The Farmers Grain Co., Inc.
- ABILENE, Garden Mark Elevator Co.
- ALDEN, Farmers Coop. Assn.
- ALMA, Schultz Produce
- ANDALE, Andale Farmers Elevator
- ANDOVER, L. S. Dack
- ANTHONY, Thurman Hatchery
- ARLINGTON, Barkin Grain Co.
- ARLINGTON, Arbuckle's Hatchery & Fd. Co.
- ASHLAND, Wallingford Elevator
- ATCHESON, Berry Bros. Hatchery
- ATTCO, Imperial Flour Mills Co.
- AUGUSTA, Furlong Hatchery & Feed
- BALDWIN, Hardy's Hatchery
- BALDWIN, Hunt Farm Supply
- BAXTER SPRINGS, Gaines Feed Store
- BELLE PLAINE, Halls Produce & Feed
- BELOIT, Jones Feed & Seed Co.
- BELOIT, Mulkey Produce
- BONNER SPRINGS, Bonner Feed & Fuel Co.
- BURDEN, Wallace Feed & Seed
- BURLINGTON, Solisby's Feed & Seed Store
- BURNS, Burns Feed Store
- BURTON, Hensley Oil & Feeds
- CANEY, Halligan Feed & Produce
- CANTON, Canton Grain Co.
- CARONDALE, Surber Grain Co.
- CEDARVALE, L. C. Adams Mercantile Co.
- CHANUTE, Farm Service Store
- CHANUTE, Floyd R. Potter
- CHENEY, Ball Produce & Hatchery
- CHERRYVALE, Cherryvale Grain Co.
- CHETOPA, Kams Grain Products Co.
- CLAY CENTER, Garden Mark Elevator
- CLEARWATER, Hugh R. Wilk
- CLYDE, Derrusseau's Hatchery
- COFFEYVILLE, C. C. Feeders Supply
- COLBY, Thomas County Grain Co.
- COLDWATER, Wallingford Grain Corp.
- COLUMBUS, Columbus Hatchery
- COLUMBUS, Andale Farmers Elevator
- CONWAY SPRINGS, Farmers Union Coop. Assn.
- COTTONWOOD FALLS, Schoop Poultry & Egg Co.
- COUNCIL GROVE, Scholes Feed Store
- DELEVAN, Farmers Grain & Supply Co.
- DENISON, Farmers Elevator
- DESOYO, Goodrum Grain Co.
- DODGE CITY, Casterline Grain & Seed, Inc.
- DWIGHT, Dwight Feed Co.
- EDGERTON, Edgerton Grain Co.
- EDNA, Edna Produce
- EL DORADO, The Home Grain Co., Inc.
- ELK FALLS, O. & B. Oil Co.
- ELKHART, Elkhart Coop. Equity Exchange
- ELLIS, The Wheatland Elevator
- EMPORIA, The Kansas Soya Products Co., Inc.
- ESBON, Esbon Feed & Seed Co.
- ESKIBRIDGE, Converse Farm Service Co.
- EUREKA, C. T. Agrellius Feed Co.
- FONTANA, Barnes Feed & Seed Store
- FORD, Security Elevator Co.
- FT. SCOTT, Chas. Leist Feed & Seed Co.
- FT. SCOTT, National Coal, Ice & Fuel Co.
- FREDONIA, Cox Produce & Grain Co.
- GARDEN CITY, Western Terminal
- GARDNER, Gardner Grain Co.
- GARLAND, Pfeiffer Produce
- GARNETT, A. H. Fawkes & Sons
- GAS CITY, Goodsell Hatchery
- GIRARD, Potter's Hatchery
- GOODLAND, Terminal Grain Co.
- GREAT BEND, Barton County Hatchery
- GREENEY, Rosselfanger Produce
- GREENSBURG, Security Elevator Co.
- GRENOLA, Gwinup's Produce
- HALSTEAD, Farmers Coop. Grain & Merc. Co.
- HAMMOND, Bruce General Mide.
- HARTNER, Kansas Milling Co.
- HARTFORD, The Kansas Soya Products Co., Inc.
- HARPER, The Imperial Flour Mills Co.
- HARVEYVILLE, Harveyville Grange Coop. Business Association

- HAYS, Engel Hatchery
- HAYSVILLE, Haysville Elevator & Supply Co.
- HERINGTON, Wilkerson Grain Co.
- HIAWATHA, Wolf Feed & Grain Co.
- HIGHLAND, Moore Farm Supply
- HILLDALE, Fessenden Grain Co.
- HOLTON, Farmers Union Coop. Assn.
- HOPE, The Farmers Coop. Elev. & Sup. Co.
- HUGOTON, Security Elevator Co.
- HUMBOLDT, Humboldt Coop. Assn.
- HUTCHINSON, Berry's Hatchery & Feed Store
- HUTCHINSON, Orth's Feed & Seed Co.
- HUTCHINSON, Salt City Hatchery
- HUTCHINSON, Security Elevator Co. B.
- INDEPENDENCE, Star Mill Co., Inc.
- IOLA, Allen County Feed & Prod.
- IONIA, Ionia Produce
- JUNCTION CITY, Hart Bartlett Sturtevant Gr. Co.
- KANSAS CITY, Crawford Hatcheries
- KANSAS CITY, Dyer & Co.
- KANSAS CITY, Kelley Feed Store
- KANSAS CITY, Midwest Hatchery
- KANSAS CITY, State Ave. Merc. Farm Store
- KANSAS CITY, Frank Wells Feed Store
- KANSAS CITY, KANS., Busch's Feed Store
- KANSAS CITY, KANS., Pracht's Feed & Seed, 740 Kansas Ave.
- KANSAS CITY, KANS., Rockhill Market, 4710 Metropolitan
- KENSINGTON, Levin Bros.
- KINCAID, Dunlap Produce
- KINGMAN, Goenner Hatchery
- KIOWA, Ok. Coop. Grain & Mercantile Co.
- LA CROSSE, Farmer's Union Coop. Merc. & Elev. Co.
- LA CYGNE, Farmers Produce
- LANE, Gerth Breeder Hatchery
- LATHAM, Morgan's Produce
- LATHAM, Snyder Produce
- LAWRENCE, Caldwell Hatchery
- LAWRENCE, Douglas County Hatchery
- LEAVENWORTH, Hibbs Farm Service
- LEBO, Lebo Grain Co., Inc.
- LENEKA, Jennings Feed & Coal Co.
- LEOTA, Herb J. Barr & Sons Grain & Supply Co.
- LIBERAL, Security Elevator Co.
- LITTLE RIVER, Thompson Produce, Inc.
- LOGAN, The Logan Grain Co.
- LOUISBURG, Owens Feed & Produce
- LYONS, Lyons Independent Produce
- LYONS, W. S. Dayton Hatchery
- MACKSVILLE, Kansas Milling Co.
- MAIZE, Maize Mills, Inc.
- MANHATTAN, Johnmeyer Feed & Seed

- MANKATO, Levin Bros.
- MARION, Seymour Packing Co.
- MARQUETTE, Rodney Milling Co.
- MAYETTA, Farmers Union Coop. Assn.
- McLOUTH, McLoth Grain Co.
- McPHERSON, Community Feed & Seed
- McPHERSON, Hilltop Turkey Farm & Hatchery
- MEDICINE LODGE, Kansas Milling Co.
- MERRIAM, Leland Wilson Hatchery
- MICHIGAN VALLEY, Bulmer Grain Co.
- MINNEAPOLIS, Golden Rule Hatchery
- MINNEOLA, Minneola Coop. Exchange
- MONTEZUMA, Security Elevator Co.
- MONUMENT, Wheatland Elevator
- MORAN, Louie Benbrook Produce
- MORSE, Morse Grain Co.
- MOUND CITY, Ward Produce
- MOUNDRIE, Moundridge Coop. Elev. Assn.
- MT. HOPE, Independent Produce
- MULVANE, Moore Grain Co.
- MUNCE, J. E. Puet
- NEODESHA, Shacklett Hatchery & Feed
- NEWTON, Berry's Feed & Supply Store
- NICKERSON, Farmers Coop. Elevator Co.
- NORTON, N. L. Johnson Grain Co.
- NORWICK, Goenner Hatchery
- OAKLEY, Wheatland Elevator
- OBERLIN, Earl C. Wilson & Sons
- OLATHE, Farmers Coop. Union
- OSAGE CITY, Lafferty Grain & Produce Co.
- OSAGE CITY, Steinhoff & Son
- OSAWATOMIE, Osawatomie Feed & Produce Co.
- OSBORNE, L. M. Newman
- OSKALOOSA, Oskola Feed Store
- OSWEGO, Kams Grain Products Co.
- OTTAWA, Ottawa Produce Co.
- OVERLAND PARK, Jennings Feed & Coal
- PAOLA, Washburn Hatchery
- PARKER, Lockhart Station
- PEABODY, Peabody Coop. Equity Exchange
- PECK, Moore Grain, Inc.
- PENALOSA, Kansas Milling Co.
- PERRY, Hack & Seyler
- PLOUA, Niemann's Store
- PITTSBURG, The Potter Hatcheries
- PLEASANTON, Pleasanton Mill & Elevator Co.
- PORTS, Walter's Lumber Co.
- PRATT, Pratt Equity Exchange
- PRESCOTT, Singleton Products
- PRETTY PRAIRIE, Security Elev. Co.
- PROTECTION, Park Hatchery
- RICHMOND, Farmers Home Coop. Merc. Society
- SABETHA, Sabetha Coop. Produce Co.

- SAFFORDVILLE, North Grain Co.
- ST. FRANCIS, Roylston & Son
- ST. MARYS, Farmers Union Coop. Assn.
- SALINA, McMinn & Tanner Feed & Produce
- SCOTT CITY, Durrant Seed & Supply
- SEDAN, Sedan Seed House
- SEDGWICK, Behymers-Sedgwick Hatchery
- SEDGWICK, J. O. Coombs & Son
- SEDGWICK, Sedgwick Alfalfa Mills
- SEVERY, Arnold & Colyer
- SHAWNEE, Shawnee Hatchery
- SPRING HILL, Zweigell Feed & Produce
- STAFFORD, Stafford Hatchery
- STANLEY, Boyd & Maelzer
- STERLING, Farmers Coop. Union
- STILWELL, Stilwell Feed & Coal
- STOCKTON, Bouchey Grain Co.
- SUMMERFIELD, State Line Pig Factory
- SYLVIA, Sylvia Coop. Assn.
- THAYER, Potter's
- TONGANOXIE, Trasper's Feed Store
- TOPEKA, Emory T. Shimer Feeds & Seeds
- TOPEKA, J. R. Shimer
- TRIBUNE, Tribune Grain Co.
- TROY, Winzer Hdw.
- TURON, Turon Hatchery
- VALLEY CENTER, Valley Center Farmers Elevator Co.
- VALLEY FALLS, Reichart Elevator
- VIRGIL, Virgil Feed & Coal
- WAKEENEY, The Wheatland Elevator
- WATERVILLE, Wagon Produce
- WATHENA, Wathena Hatchery
- WAVERLY, J. R. Baxter Produce
- WELLINGTON, Newell's Feed Store
- WELLSVILLE, Averill Produce
- WHITE CITY, White City Grain Co.
- WHITEWATER, Whitewater Hatchery
- WICHITA, C. Ball Feed Co.
- WICHITA, Hillside Feed & Seed Store
- WICHITA, Berry's Hatchery & Feed Store
- WICHITA, Great Plains Hatchery
- WICHITA, Kellogg Brothers Feed & Seed
- WICHITA, Maxwell Feed & Hatchery
- WILLIAMSBURG, Williamsburg Produce
- WILSEY, F. S. Riegel
- WINFIELD, Wallace Feed Store
- WINONA, Wheatland Elevator
- WOODBINE, Reed's Store
- YATES CENTER, Yates Center Elevator Co.
- ZARAH, Zarah Grain & Elev.
- ZENDA, The Goenner Hatchery
- ZENTH, The Zenith Cooperative Grain Co.



Delmar Huck, center, who farms northeast of Scott City, started 306 straight-run chicks last spring on Purina Chick Startena Checker-Etts. He raised 302 of these chicks, killed the cockerels for broilers, and housed 130 pullets the first of August. These pullets laid about 100 eggs each day through most of the winter (except for a few weeks when the weather was extra cold). His results were so good, in fact, that he's started another 300 chicks this year — on Purina.

In the photograph here he shows Purina Salesman M. R. Ridley (left) and Purina Dealer Marion Durrant one of his fine hens fed all the way on Purina.



Purina sponsors some of the best farm shows in radio in the state of Kansas. Wes Seyler, farm director for station WIBW, Topeka, broadcasts market news every day, Monday through Saturday, at 12:20 p.m. He also presents a special farm program on Sunday morning at 8.

Bruce Behymer is heard on KFV, Wichita, in a Purina-sponsored farm news program at 12:45 p.m., Monday, Wednesday and Friday.

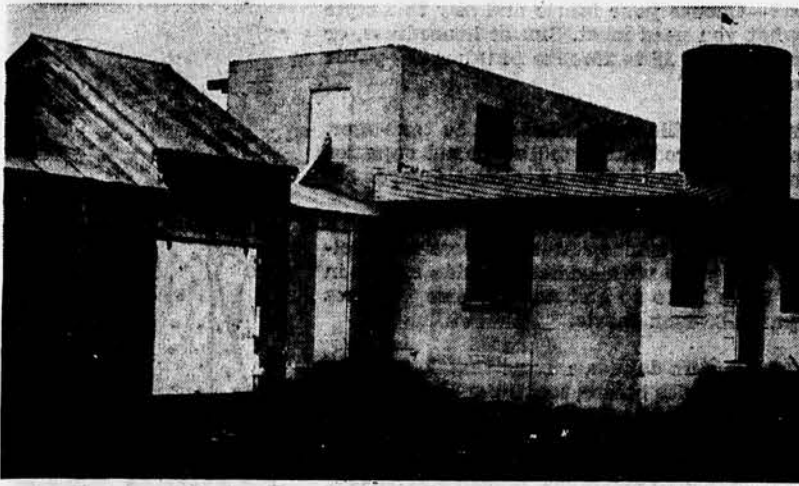
Ed Mason is the Purina Market Reporter on KXXX, Colby, every day, Monday through Friday, at 12:45 p.m. And you can hear the songs of Eddy Arnold on KGAR, Garden City, Monday through Saturday at 12:40 p.m.

CALAMITY CAL...



Take Drudgery Out of Dairying

(Continued from Page 1)



GRAIN IS ROLLED in room at left and elevated to overhead bin over milk parlor on Ailiff Neel farm, McPherson county.

board runs on a track at right angles to the stanchion. A slight pull by operator in pit puts it into position for grain filling, also opens runway so cows can fill the 3 stanchions on that side. A slight push puts sliding panel back in place, thus closing runway and making grain available to cows.

2. Cows are admitted to milking parlor by pulling a lever counterbalanced to give easy door operation. Cows leaving barn can be released by pulling a rope that controls easy sliding door. All doors are controlled from the pit area.

3. Pit is equipped with lavatory having hot and cold running water at all times. A metal cone next to the lavatory serves as a sanitary holder for teat cups and lines when not in use. A lever at bottom of this cone allows operator to flush teat cups and milk lines with cold water, also to sterilize them with live steam. Teat cups are sterilized with live steam and rinsed with cold water after every cow.

4. No milk is carried. All milk goes thru stainless steel pipes into 200-gallon refrigerated storage tank where it is constantly agitated and immediately cooled to 40 degrees, thus cutting down bacteria count.

5. Since cows are above operator all work is done without stooping. It is much easier to examine cows' udders and check anything unusual that may come up.

6. Because cows are in parlor such a short time (about 6 minutes in all)

there is little manure to handle in the barn.

Mr. Neel says it takes a little longer to clean up after milking than with the old parlor but the work is easier. He believes a dairyman should milk at least 30 cows to afford the new laborsaving type barn, but that it is as easy to milk 30 cows as it is 15 once you have the barn.

Dairying is one of the last farm enterprises to be fully mechanized, but the Neel setup proves it is possible to do it.

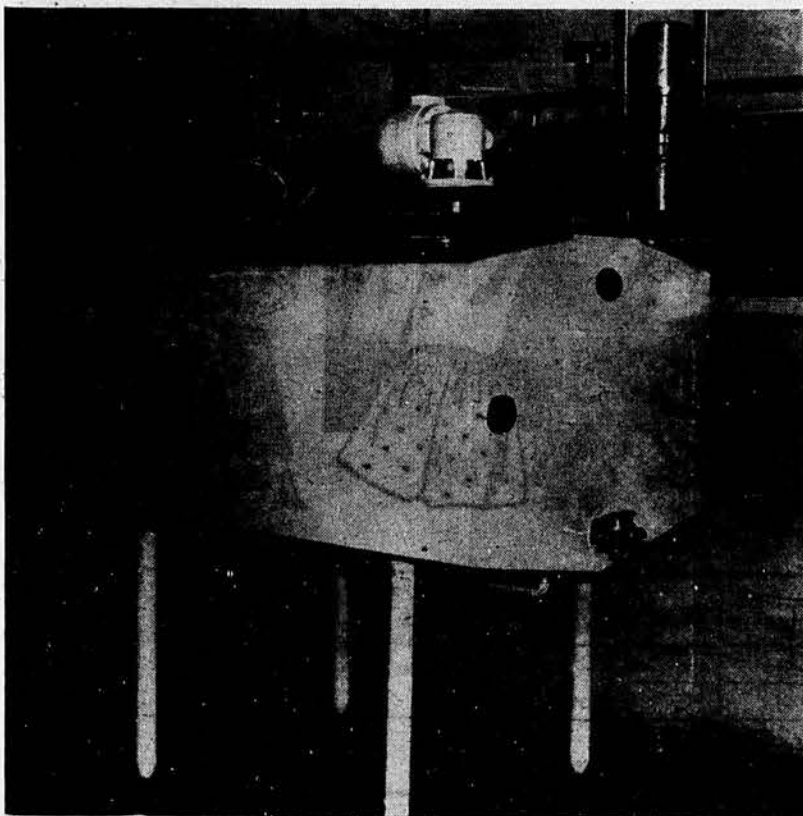
As dairymen come to another dairy month in June the future looks bright. Increased population and new dairy products coming on the market seem to insure security for the industry. Improvements in getting the work done on the farm will help strengthen the industry from that angle, as it will make dairying more attractive in comparison with other farm projects.

Hat Stands

For the closet shelf I make non-tip hat stands from discarded small lamp shades. If desired the frames may be re-covered to harmonize with closet accessories—Mrs. B. T.

No Powder Wasted

I keep a measuring spoon attached to jar of soap powder to measure out just the amount needed, and find soap powder lasts longer.—Mrs. L. I.



MILK FROM COWS in Ailiff Neel milking parlor goes by pipe line direct to this 200-gallon storage tank, where it is agitated and cooled at same time.



MORE WORK TIME—Figure it yourself. You know how many man-hours you waste pumping and carrying water. With today's labor costs, that time runs into big money. A Dempster Water System will cut chore time to a minimum . . . give you hundreds of extra hours each year to spend at profitable labor. This one saving alone will quickly pay the initial cost of installing a Dempster Water System.

HIGHER PRODUCTION—heavy hogs, fat cattle and plenty of eggs in the laying nests depend on a constant supply of fresh, clean water. With a Dempster Electric Water System, you just turn the tap and your water flows where it's needed. No work, no wasted time, no bother. Ask your Dempster dealer for a free estimate on installation, and for facts on how a Dempster Water System actually pays for itself!

FULLY GUARANTEED, like all Dempster pumps, this Deep-Well Ejector is excellent for pumping water over 25 feet vertical distance.



SELF-PRIMING, this Dempster Shallow-Well Ejector Pump has only one moving part. It's inexpensive, compact, easy-to-service.



ESPECIALLY EFFICIENT is the positive-lubricated Dempster Reciprocating Deep-Well Pump. It's the extra-thrifty member of the Dempster line.



LOW-COST OPERATION makes this Dempster Reciprocating Shallow-Well Pump an outstanding buy. It delivers large quantities of water from nearby cisterns and wells with no wasted power.



BUY QUALITY—
It's Today's Best Value!

FREE BOOK AVAILABLE
Send Coupon Today!

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WATER SUPPLY EQUIPMENT

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Show me how a Dempster Water System can pay for itself. Please mail me a copy of your free book, "Facts About Running Water."

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WHY BUY A PICK-UP REEL?



Rel-Tuth Reel Batt Attachments lock on your present reel and give you all the advantages at a fraction of the cost. Fits all combines and windrowers. No conversion—15-minute installation. Ask your local dealer for Rel-Tuth, or write:

M. D. McDONALD CO.
Box 1298C, Wichita, Kansas

GROW MORE . . .

MAKE MORE



Aluminum FLEX-O-SEAL Portable Irrigation Pipe

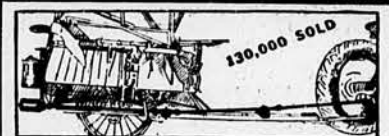
By using this light-weight irrigation pipe, with pressure-tight, flexible quick coupling, you add valuable productive acres to your land . . . produce more and better crops. Easily and quickly assembled on rolling, uneven land . . . without elbows or tees. Built to last—can pay for itself in one season. Aluminum or Galvanized in 3, 4, 5, 6 or 8-inch diam. Write today for FREE booklet and name of nearest dealer.

CHICAGO METAL MFG. CO.
3736 S. Rockwell St.
Chicago 32, Illinois

Your Best Crop Insurance . . .

Carlson POWER DRIVES

FOR YOUR BINDER OR MOWER . . .



BINDER CARLSON Power Drives convert ground-driven binders into a power-driven binder or windrower. Cuts a full swath in any grain . . . cuts up to 40 acres a day at half fuel cost . . . protects binder mechanism with the sensitive clutch . . . eliminates costly parts replacement.

MOWER AND CORN BINDER CARLSON Power Drives give that added measure of safety, economy and cutting power on even the toughest cutting jobs. CARLSON POWER DRIVES give you the shortest route to cutting SATISFACTION!

CARLSON & SONS BERESFORD SO. DAKOTA

"BARN-SIZED" LOADS!



FARMHAND "POWER-BOX" Forage Unit takes 6 ton load! Unloads automatically with PTO or Power-Pack. Full roller chain conveyor and smooth worm gear drive. Write Dept. 85 THE FARMHAND CO., Hopkins, Minn.

Farmhand
First in farm materials-handling

SAVE • MONEY • TIME • ENERGY



... of course, it's electric!

WESTINGHOUSE FRONT-DOR MILK COOLERS

SAVE YOUR BACK . . . Easy to load and unload . . . Slide 'em in . . . Slide 'em out . . . Eliminate hazardous, backbreaking lifting of milk cans. Available in 4, 6 and 8-can sizes.

CUT REJECTIONS . . . Fast cooling and safe cold storage insure quality milk in every haul.

EASY TO SERVICE . . . Servicing is seldom required. But if necessary, the Drop-In Refrigeration System is easy-in, easy-out; replaceable with spare unit to insure continuous milk cooling.

5-YEAR GUARANTEE PLAN . . . Covers every Westinghouse Hermetically-Sealed System.

ALSO AVAILABLE . . . Ten Immersion-Type Coolers. A size for every need from two cans to ten cans.

FOR FURTHER DETAILS see your Westinghouse Dealer or write direct to Westinghouse Electric Corporation, Electric Appliance Division, Springfield 2, Mass.

KANSAS

- CONCORDIA**—Fairmont Foods
- EL DORADO**—Ted Banks Auto Supply
- GOODLAND**—Goodland Electric and Floral Co.
- HARPER**—Keller Milk Supply
- HAYS**—Schwaller Lumber Co.
- HILLSBORO**—Central Kansas Co-op
- JUNCTION CITY**—D & M Appliance
- NEWTON**—Graber Hardware Co.
- NORTON**—Van's Electric Co.
- RUSSELL**—City Dairy
- ST. FRANCIS**—Danielson Hardware
- SALINA**—Fairmont Foods Co.
- WELLINGTON**—Schrag Radio Service

YOU CAN BE SURE... IF IT'S **Westinghouse**

Sewing Season

9062—Choose your fabric and sew this style for what you need most. Sun or housedress, or dress-up. Sizes 12 to 20. Size 16 takes 3½ yards 35-inch fabric.



9062
12-20

9227—A double-duty dress for the teen-ager. Bared top, flared skirt and scalloped cape for town. Sizes 10 to 16. Size 12 takes 3¾ yards 35-inch fabric; 1¾ yards contrast.

4854—Here's a nice sew-easy dress with collar in one piece with bodice, no side seams in skirt. Sizes 12 to 20 and size 40. Size 16 takes 4¾ yards 35-inch fabric.

4606—A slim camisole dress that looks trim everywhere, with bolero, too. Sizes 34 to 50. Size 36 takes 4¾ yards 35-inch fabric; 2¼ yards eyelet.

4767—A 4-way wardrobe, midriff top, shorts, skirt and shirt. Sizes 2 to 10. Size 6 bra, skirt take 1¾ yards 35-inch fabric; shirt 1¾ yards; shorts ¾ yard.

4756—Just the cool smooth sun-casual you want. Easy to make. Sizes 12 to 20. Size 16 takes 3½ yards 35-inch fabric.



9227
SIZES
10-16

4854
SIZES
12-20
40

4606
SIZES
34-50

4756
12-20

4767 SIZES 2-10

Pattern Numbers	Size	Name
		Route
		Town
		State

Patterns are 30 cents. Address Fashion Editor, Kansas Farmer, Topeka.

Kansas Farm Home and Family

FLORENCE McKINNEY, Editor

Just Right for Berries

OLD-FASHIONED preserves are left whole or cut into large pieces and allowed to stand for some time to toughen the pieces so they will not break up. The natural color of the fruit is kept as true as possible by short rapid cooking or by evaporation. Ripe, but firm fruit is best to make preserves.

Strawberry Preserves

If you have a large flat-bottomed kettle you may double this recipe. Quick cooking is the secret of making top-grade preserves and a flat-bottomed kettle is a must for quick cooking.

- 2 cups whole strawberries
- 2 cups sugar (beet or cane)
- 2 tablespoons water
- 1 tablespoon lemon juice

Sort, wash and hull firm but ripe strawberries. Drain in colander. In a wide-bottomed, shallow, 3-quart preserving kettle, combine sugar, water and lemon juice. Mix together. Place on medium heat until bubbles form on surface for about 6 minutes, stirring frequently. Mixture becomes liquid but not transparent. Add berries, bring to a boil, stirring often. Boil just 4 minutes. Remove from heat, pour carefully into shallow platter and skim. Let stand at room temperature 48 hours, stirring occa-

sionally. Pack into hot, sterilized jars and seal at once. Makes about 2 half-pints.

Strawberry Jelly

- 3½ cups juice
- 5 cups sugar (beet or cane)
- 1 box powdered fruit pectin

Crush well about 2½ quarts ripe strawberries. Place in jelly cloth or bag and press out juice. Measure 3½ cups into a large saucepan.

Measure sugar and set aside. Add powdered fruit pectin to juice in saucepan and mix well. Place over high heat and stir until mixture comes to a hard boil. At once stir in sugar. Bring to a full rolling boil and boil hard for 1 minute, stirring constantly. Remove from heat, skim off foam with metal spoon and pour quickly into glasses. Cover jelly at once with hot paraffin. Makes about 8 six-ounce glasses.

Raspberry Jam

- 5 cups prepared fruit
- 7 cups sugar (beet or cane)
- 1 box powdered fruit pectin

Crush thoroly about 2½ quarts fully ripe raspberries. If desired, sieve half of the pulp to remove some seeds. Put 5 cups in saucepan.

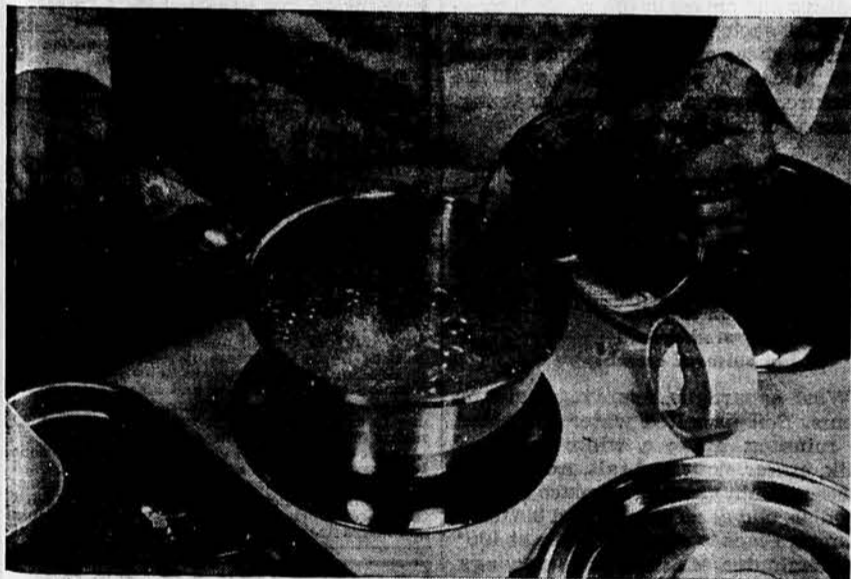
Measure sugar and set aside. Add pectin to fruit in saucepan and mix well. Place over high heat and stir until mixture comes to a hard boil. At once stir in sugar. Bring to a full rolling boil and boil hard for 1 minute, stirring constantly. Remove from heat. Skim off foam with metal spoon. Then stir and skim by turns for 5 minutes to cool slightly, to prevent floating fruit. Ladle quickly into hot jars. Cover with melted paraffin. Makes about 11 six-ounce glasses.

Blackberry and Cherry Jam

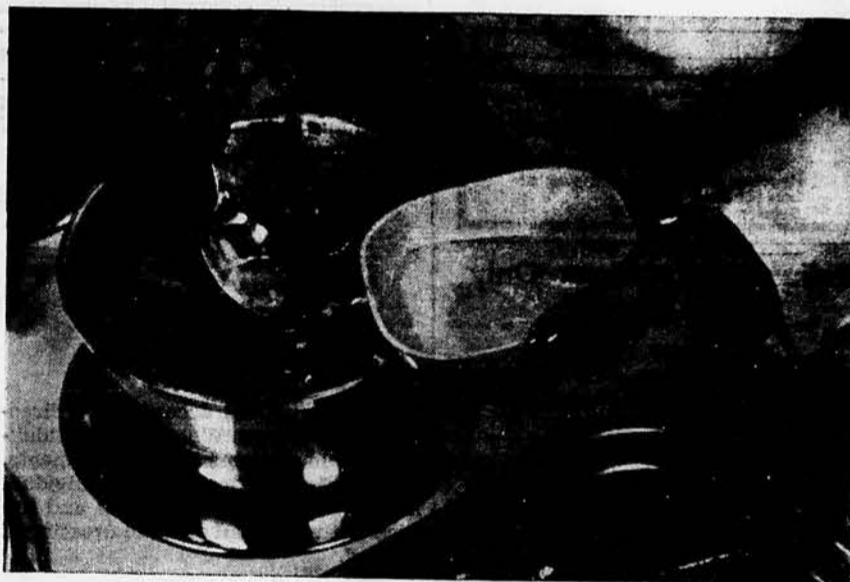
- 4 cups prepared fruit
- 7½ cups sugar (beet or cane)
- ½ bottle fruit pectin

Crush well about 1 quart fully ripe blackberries. Stem and pit about 1½ pounds ripe, sour cherries. Chop fine. Combine fruits and measure 4 cups into large saucepan.

Add sugar to fruit in saucepan and mix well. Place over high heat, bring to a full rolling boil and boil hard for 1 minute, stirring constantly. Remove from heat and at once stir in bottled fruit pectin. Then stir and skim by turns for 5 minutes to cool slightly, to prevent floating fruit. Ladle quickly into glasses. Cover jam at once with hot paraffin. Makes about 11 six-ounce glasses.



1 ADD STRAWBERRIES to sirup, then boil just 4 minutes.



2 SKIM FOAM from strawberries immediately after boiling.



3 POUR PRESERVES in platter, let stand 48 hours.



4 LADLE THICKENED PRESERVES into hot, sterilized jars.



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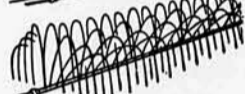
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THE RECIPE CORNER



MEAL-IN-ONE, a dish of sausage and canned corn that's a meal by itself with a salad and drink to make it complete.

Sausage-Corn Casserole

- 1 pound pork sausage links
- 3 tablespoons sausage drippings
- 3 tablespoons flour
- 1 1/2 cups milk
- 2 1/2 cups canned corn, drained
- 2 tablespoons chopped green pepper
- 1 cup cracker crumbs
- 2 tablespoons drippings

Fry sausage until very lightly browned (8 to 10 minutes). Remove to plate, pouring off all but 3 tablespoons fat. Make sauce in same pan by adding flour to fat, then stirring in milk. Cook and stir until thickened. Add corn and green pepper. Put half of crumbs in casserole, add creamed mixture, then most of sausages, more creamed mixture, then top with remaining crumbs mixed with 2 tablespoons of the sausage drippings. Add last 5 or 6 sausages to top and bake in oven at 350° for 25 to 30 minutes. Makes 4 to 5 servings.

Jellied Waldorf Salad

- 1 package lime gelatin
- 1 large apple, diced
- 1/2 cup diced celery
- 6 marshmallows
- 6 diced dates
- 1 tablespoon lemon juice
- 1/4 cup pecans, chopped

Prepare gelatin according to directions on package. When slightly thickened, fold in remaining ingredients. Chill in 1-quart mold or in individual molds. Serve on crisp lettuce and top each with spoonful of salad dressing if desired.

News to You?

A sour cream sauce for asparagus, broccoli, cabbage or snap beans adds a new taste to vegetables. In a small saucepan mix 1 cup sour cream, 2 tablespoons each of salad oil and vinegar, 1 tablespoon lemon juice, a little salt and pepper. Bring to boiling point, then pour over vegetable.

Your food freezer is not a bank. Best returns come from a regular turnover of food. Beef, for instance, shows little change in 6 months if kept between zero and 10° F. If kept longer or at a higher temperature some loss is noticed in good eating qualities.

Sorting out and classifying recipes is a wonderful job for the restless convalescent, if she is interested. "Just a mass of recipes" is not a prized possession.

These days dry powdered milk is a wonderful buy from several standpoints. It comes in both skim- and whole-milk form. Both farm and town women are accepting it as they have frozen orange juice. It cuts the food budget, adds food value and is extremely simple to use. Dry milk is sold

Egg, Cheese and Tomato Salad

A salad almost complete in itself. Serve for Sunday supper with toasted rolls and milk.

- 1 cup cottage cheese
- 6 hard-cooked eggs, chopped
- 1 1/2 teaspoons salt
- 1/4 teaspoon dry mustard
- dash cayenne
- 1/2 teaspoon Worcestershire sauce
- 1 tablespoon chopped onion or chives
- 4 small peeled tomatoes
- lettuce
- French dressing

Combine cottage cheese, eggs, seasonings and chives or onion. Chill thoroughly. Cut each tomato into 3 slices and overlap slices on bed of lettuce broken into pieces. Top with cottage cheese mixture. Serve with French dressing. Makes about 4 servings.

Asparagus with Cheese

- 2 cups asparagus
- 1 cup milk
- 2 tablespoons butter
- 2 tablespoons flour
- 1/2 teaspoon salt
- 1/2 cup grated cheese
- 1/3 cup buttered crumbs

Wash asparagus, removing scales on stems. Boil in salted water for about 10 minutes. Make a white sauce of milk, butter, flour and salt. Add grated cheese. Drain asparagus, place in baking dish, add cheese sauce and buttered crumbs. Place in oven and bake at 400° for 15 minutes. Makes about 6 servings.

in almost all grocery stores these days. Watch for it. Add it to cereals, puddings, breadmaking. Reconstituted with water is just one way.

Don't start a telephone conversation with "Guess who this is." Over the phone never begin an invitation by saying, "What are you doing Saturday night." Instead tell what's up and then ask your friend if she can come.

Only a few simple home remedies need be kept in the home medicine chest. A salve for burns, an antiseptic for cuts, alcohol for cleansing purposes, compresses, bandages and absorbent cotton.

Picnic Fun on the 4th

Suggestions for games, stunts and refreshments are given in our leaflet, "Fourth of July Frolic." Send 3c to Entertainment Editor, Kansas Farmer, Topeka, for a copy of the leaflet.

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For the Obese and Overweight

Obesity is well known to be a common and serious hazard to health, primarily because it is a frequent precipitating factor in degenerative diseases such as hardening of the arteries.

Overweight and obesity mean different things to those who work in the field of medicine. However, they are distinguished only by degree. The former term is applied to those who are more than 10 per cent above the ideal weight as listed in the tables prepared by the Metropolitan Life Insurance Company. Obese is the word applied to those more than 20 per cent above the ideal weight.

A recent account by the Public Health Service describes a new method to assist obese persons to lose weight by the use of psychotherapy on a group basis.

This new method has been tried because to a very large extent obesity is the result of overeating due to psychological causes rather than physiological. They point out that the act of eating gives pleasure denied by other means, that it relieves nervous and emotional tension. People with these emotional problems overeat for pleasure.

It is estimated that there are 30 million people in this country who are 10 per cent overweight and half that many who are obese or 20 per cent overweight. Inasmuch as diet therapy and medication have failed to control obesity on a long-term basis, recourse was taken to group psychologic therapy. To date results have been satisfactory.

Food for 50 and 100

We have received a very limited supply of a large booklet which includes recipes for 50 and 100 people. It will be helpful to those of you who serve church and community dinners or assist in school lunch programs. Send 6 cents and ask for the Sunkist booklet. Write to Home Service Editor, *Kansas Farmer*, Topeka.

Chicken in the Coop

To play this game you will need soda straws, a box for a coop and chickens cut from scrap paper. Copy the outline from a picture or draw a figure not longer than 2 inches. Any kind of chicken will do. Cut several dozen of them.

Now for the fun. To play, scatter chickens about at one end of room on chairs, tables, book and on floor. Each player is provided with a straw. The game starts when the leader shouts, "The chickens are in the garden, bring them to the coop." The leader remains at the coop and counts chickens brought in, giving each player credit.

Chickens are caught in this way. Player rests one end of straw over paper, holding opposite end in his mouth. Chickens are held on to end of straw by drawing in his breath and holding it.

If player giggles or exhales chicken will fall to floor. Whenever this happens, player must go back to spot on which chicken was roosting and try again. Before long players will get the idea and their technique improves. When time is called, the person having most chickens in coop is winner.

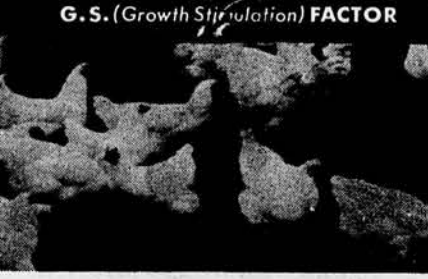
For Crisp Pickles

What makes pickles slick and soft? By being above the brine, or not enough brine, or a too-weak brine. If they shrivel, the vinegar may have been too strong or there was too much salt and sugar.

For Clever Program

Our leaflet, "So Much a Dozen," is especially prepared for an interesting, lively program. Requires a cast of a photographer, bride and groom, an old maid, and a family with 9 children. Stage properties are simple and easy to obtain. Send 5c to Entertainment Editor, *Kansas Farmer*, Topeka, for your copy of the play.

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COMPLETE AND COMPACT is this mixing center, located next to refrigerator. Flour bins are pull-out types. Note separate compartments for pans at top. Also swinging doors on mixer cabinet. Home of Mr. and Mrs. Joseph Nelson, Atchison county.

Sandwiches in the Freezer

OUT OF THE FREEZER and into lunchbox is morning routine for sandwiches in some homes these days. Many homemakers find it convenient to make up a batch of sandwiches at one time, package separately and put in freezer to save time making them each day.

But it pays to choose fillings that freeze well. Fillings made of chicken, beef, salmon, cheese and peanut butter keep good quality and flavor for 3 to 4 weeks in the freezer, but ham may become strong after 3 weeks.

Not suited to freezing are raw vege-

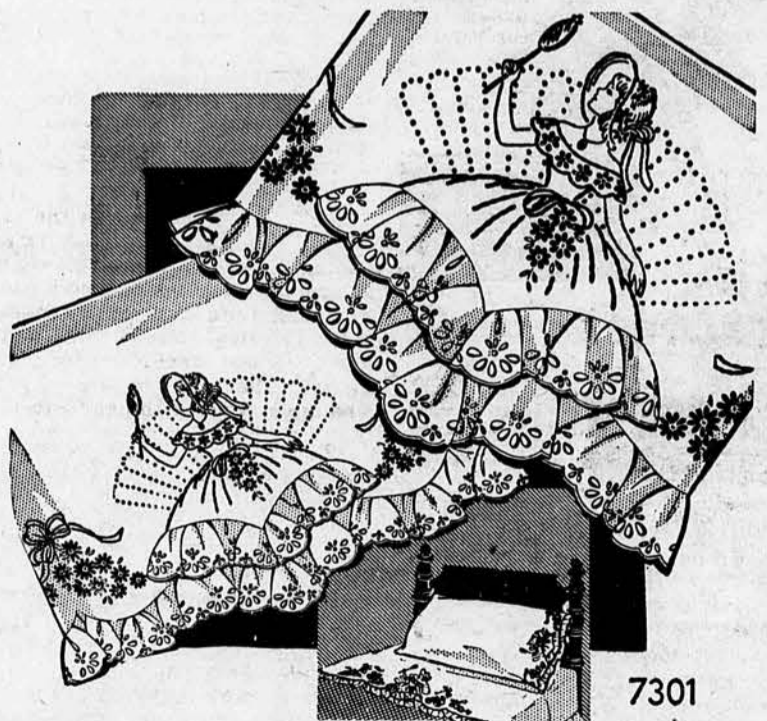
table fillings. They lose color and crispness when thawed. Whites of eggs become rubbery from freezing.

Butter and margarine are better than mayonnaise or cooked salad dressing, because it soaks into the bread.

For freezing, package each sandwich separately, wrap in moisture-vapor-resistant paper and label. Most sandwiches will thaw in 2 or 3 hours in a lunchbox at room temperature.

Stick your handbag into a cellophane bag if you're out when it's raining.

FOR THE BRIDE

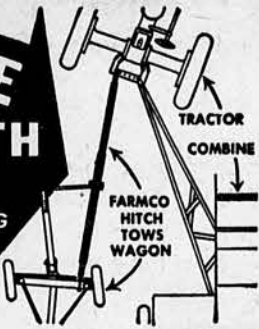


7301

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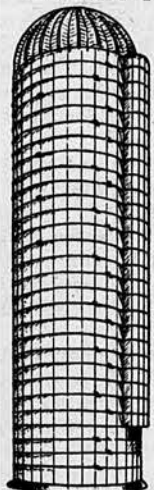


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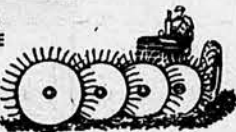
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Marketing Viewpoint

PAUL L. KELLEY, Poultry and Eggs
C. P. WILSON, Livestock
LEONARD W. SCHRUBEN, Feed Grains

Are Kansas farmers buying more chicks this spring than a year ago?—M. K.

All signs point to a reduction in number of eggs to be produced in Kansas next fall. Kansas farmers are reducing their present laying flocks and also are buying fewer chicks for flock replacements this spring than last fall. Trend in reduction of numbers of young chicks bought for flock replacement is not obvious from available reports on hatchery production.

Present hatchery reports give only total number of chicks hatched. Some of these chicks are sold to broiler producers, some are sexed chick sales, while others are sold to farmers. Some cockerels cannot be sold and must be killed by hatcheries. It is obvious then present hatchery reports, which show total Kansas hatchery output above a year ago, are not intended to measure chick sales to farmers.

Reports from the trade indicate sales of chicks to farmers in Kansas are down sharply from a year ago.

It appears speculators do not have the same views about egg prices for next fall as are held by most Kansas farmers. Speculators are putting a record number of shell eggs into storage in anticipation that prices will be substantially higher next fall.

What is the outlook for the fed cattle market this summer?—F. D.

A strong summer and early fall market for long-fed cattle is probable. The 1951 feed grain harvest was fourth smallest in relation to livestock numbers since 1926. In years following harvest of small feed crops, there is a tendency for summer and early fall market for choice slaughter steers to be strong. In contrast, in years following harvest of large feed crops, summer rise in price often fails to develop. The explanation probably lies in the fact that relatively few fed cattle are carried into summer in years following small feed crops but in years following large feed crops a sufficient number of fed cattle are carried into summer to prevent a significant price rise.

How are parity prices and loan rates calculated?—H. L.

"Parity" implies the condition of equality. In terms of wheat prices, full parity price or 100 per cent of parity means a bushel of wheat can be exchanged for a like amount of good or services farmers buy as was possible during a specified base period. Parity computations are specified by law and the exact calculations vary from one commodity to another. In the case of wheat, parity is calculated by multiplying the base price of 88.4 cents per bushel by the index of prices paid, interest, and taxes. The 88.4 cents is the average price received by U. S. farmers for wheat during the 1910-14 base period. The index is a measure of change in price of things farmers buy. Recent wheat parity price was \$2.45 per bushel.

Support prices for farm commodities are usually specified in terms of some percentage of parity. The support price for the 1952 wheat crop will be at a level to reflect 90 per cent of July 1, 1952, parity to wheat producers. Assuming no change between April 15 and July 1 in the price of things farmers buy, the average support price for the U. S. will be about \$2.21 per bushel.

Many Jobs

Innertube rubber bands cut 3/4 to 1 inch in size are handy to slip over boxes to keep lids on, and for children to slip over schoolbooks. If you have a leather punch, rubber bands might be edged in scallops and initials of children might be cut in them.—H. R.

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WHAT ABOUT BRUCELLOSIS?

A new booklet entitled "What Is Known About Brucellosis" is now available, issued by The National Committee on Brucellosis.

This booklet contains chapters on species of animals infected, importance of the disease, public health aspects, distribution of the disease, how the disease organisms enter the animal's body, channels of elimination from the body, resistance of the germs outside the animal's body, natural course of the disease, symptoms, method of spread, vaccination, control and eradication.

You can get a copy by sending 25 cents to Service Editor, *Kansas Farmer*, Topeka, and asking for "What Is Known About Brucellosis."

Are Dairymen in Unfair Position in the Brucellosis Battle?

By DICK MANN

Editor's Note: This is first in a series of articles on Brucellosis (Bang's disease). Because the dairy industry seems more affected by present and future regulations, emphasis will be placed on the problems and the thinking of members of the dairy industry. This first article will deal with Kansas problems. Three additional articles will explain campaigns in Wisconsin, Minnesota and Michigan to eradicate Bang's disease.

YOU CAN'T ATTEND a farm meeting anywhere in Kansas that someone doesn't bring up a discussion on Brucellosis (Bang's disease). There isn't any doubt this troublesome and costly livestock disease is of major concern to every livestock owner in the state. But, what to do about it is another question. There are almost as many ideas on what to do about Bang's disease as there are livestock owners in Kansas.

Kansas does have a 4-plan Bang's control program at present, but it is entirely voluntary on the part of livestock owners. What is bringing the problem to a head now is that 3 large milk-consuming centers—Chicago, Kansas City and Wichita—have adopted ordinances which require, within 3 to 5 years, that all milk delivered at these points come from sources and farms free of Bang's. This puts the squeeze directly on dairymen in these milksheds, and indicates a trend that eventually will call for all milk to be produced on farms free of Bang's.

Tough on Dairymen

Many dairymen, in fact, feel they are being made the goats in the whole Bang's control problem. One dairyman puts it this way: "It's a funny thing when the milk supply is low not a peep is heard. But when supply is greater than demand, consumers are sure all milk is produced under very dirty or unsanitary conditions. What about commercial feeders shipping in cattle and no Brucellosis test required on the females? Yes, it may seem like quite an unnecessary expense to have feeder or stocker females tested for Bang's, but such cattle are a menace to the dairyman who tries to keep his herd clean from this disease."

Another dairyman reports: "Veterinarians tell me more undulant fever in humans can be traced back to hogs and pork products than to milk, but all the need for control is put at the door of the dairyman."

You might think that the dairyman doesn't want control. That isn't true. Every good dairyman is eager to control Bang's disease for his benefit and that of his industry. But he believes it is unfair to ask him to try to control it in his herd when the neighbor across the fence with beef cattle or hogs is allowed to operate without control. As one dairyman says: "Even the livestock sanitary commissioner's hands are tied, because it is the law that a commercial feeder can bring feeder females into Kansas without a test. After he gets them on his farm there is no

law to prevent him keeping them as breeding stock."

Recently, the Brucellosis committee of the Kansas Interbreed Dairy Cattle Council met at Manhattan to study some of these problems, and to recommend some plan for a more sensible Bang's program in Kansas. The committee has now received the approval of the Interbreed Council for the following recommendations:

1. "Because of the different applications of reading of plates, and because of the apparent opportunity . . . to give an untrue reading of plates, we believe blood samples should be run only at approved laboratories, which means the state laboratory, or laboratories under strict state supervision.

2. "We advise use of the ring test in the future in setting up the machinery for finding infected herds in more areas, and urge state health authorities to acquaint themselves with the ring test and to procure equipment to make ring tests in more areas over the state. (Editor's Note: A complete explanation of the ring test and how it operates will be given in the 2nd and 3rd articles of this series.)

3. "From information obtained from ring tests and other sources, if infected herds are found, then every feasible method should be used to obtain full co-operation of owners of infected herds to make them eager to test their herds. We feel this will take full co-operation of state and county officials, and veterinarians in wanting to procure the facts.

4. "With the wide variation of the cattle industry in Kansas as compared to Wisconsin, we do not favor asking the legislature for funds for an indemnity payment on infected animals.

5. "This organization has previously gone on record as approving adult vaccination as one means of Bang's control within individual herds. Our previous approval of adult vaccination included animals 8 to 15 months old with pre-bleeding, official vaccination within 10 days, and properly recorded in office of the State Livestock Sanitary Commissioner.

"Recent developments in formulation of milk ordinances have posed a threat to any dairyman whose herd does not pass a clean Brucellosis test. For that reason we wish to temper our previous (Continued on Page 29)



"Johnny! You've dawdled in that tub long enough!"

stand, to the extent of cautioning any dairyman against use of adult vaccination if he is within a primary milkshed, since such vaccination might disqualify his herd.

6. "We advise that thru county agents a plan be inaugurated whereby, in co-operation with the county agent and health departments of the state, we can find out how many herds are being tested. In other words, find out how many infected herds are being lived with, while others are working to rid themselves of the disease.

7. "Perhaps a county committee should be set up in each county, to be approved by the State Livestock Sanitary Commissioner, or his office.

8. "To attain the above recommendations, we suggest that proper channels of publicity be worked out to acquaint all breeders of livestock with the purpose in mind, and take every method possible to release a program of interest to all involved: breeders of swine, as well as cattle, whereby they will have a desire to acquaint themselves with the problem, develop a desire to test beef herds and to further co-operate in complete elimination of the infection of Bang's disease in Kansas.

9. "We urge legislation requiring a test on all female importations into the state. In other words, a complete change of policy on feeding and grazing cattle, females especially.

10. "We urge a policy calling for no differentiation between beef and dairy females at public auction. The state should require a test or health papers on all change of ownership, except by consent of the commissioner, or for slaughter."

Dairymen are being backed in some of their demands by a committee of veterinarians representing the area supplying grade-A milk for pasteurization to Wichita pasteurization plants. This committee recently went on record as follows:

"We recognize the desirability of milk produced from herds entirely free from Brucellosis reaction. We do not believe such conditions can be realized until regulations controlling Brucellosis in all female cattle are in accordance."

The Veterinary committee also recommended several changes in the Wichita ordinance, as follows:

A. Milk from cows at the age of 30 months or older that are negative to blood tests and officially vaccinated, within 10 days, be accepted for grade-A pasteurization.

B. Officially calfhood vaccinated cows must be negative by 30 months of age.

C. All other cattle must be tested for Brucellosis annually and must not show any reaction to Brucellosis test.

D. This section of the ordinance to be amended so that the effective date will be July 7, 1954.

Oil Wood Screws To Avoid Rust

Place a few drops of machine oil on the screw before using and it will screw in much easier, also keep the screw from rusting and the wood from decaying for a long time. If the screw is to be removed soon, it will turn out much easier.—Mrs. C. C.

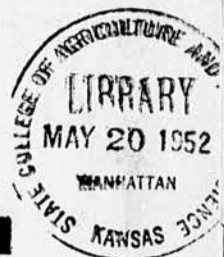
Protect Saw Blade With Garden Hose

To protect saw blade, cut a piece of old garden hose the length of the saw, then split it open, and place over teeth of the saw.—M. O.

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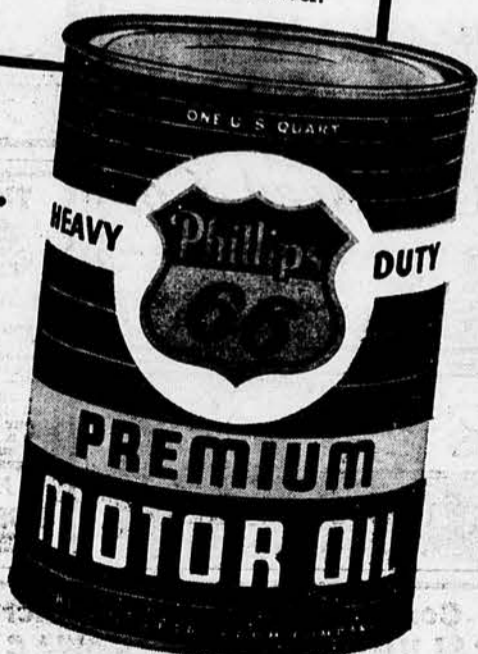
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If Government Can Seize Steel It Can Take Your Land and Cattle

By CLIF STRATTON, Kansas Farmer's National Affairs Editor

PRESIDENT TRUMAN'S taking over the steel industry is not the first Government seizure of private property in the last few years. But it probably is the most lawless, and has dramatized the process of substituting personal rule for government by law in U.S.

First big seizure under the State Socialism program promoted by the late Franklin D. Roosevelt was FDR's seizure of the gold belonging to private citizens of the United States. FDR got Congress to legalize this act, also got a supreme court decision that while the action was "morally" wrong, Congress did have power to legalize it.

Then, for some 10 years or so, the Federal Government, with state and local governments forced to act in partnership, has been in effect seizing residential property—private property of citizens—thru rent controls.

Back in 1946, when OPA controls and regulations brought on a meat famine, President Truman in a nation-wide broadcast said:

"Some have even suggested that the Government go out on the farms and the ranges and seize the cattle for slaughter. This would indeed be a drastic remedy. But we gave it long and serious consideration. We decided against the use of this extreme wartime emergency power of Government. It would be wholly impractical because the cattle are spread thruout all parts of the country."

There have been other seizures of property by the Government—FDR even ordered seizure of Sewell Avery of Montgomery Ward, and Mr. Avery was forcibly evicted from his offices by the soldiery—the courts decided against FDR.

Been Other Seizures

In a recent able and understandable article on the gold standard, Frank Chodorov in Human Events made these comments on FDR's seizure of the monetary gold of the citizens of the U. S.

"Likewise, Mr. Roosevelt's swindle of 1934 rested four-square on faith in gold. He could not have got away with this sleight-of-hand but for this faith. Taking advantage of it, he assured the citizens that the Government still had a stock of gold, in some ratio to the amount of money he proposed to issue, and all he intended by this change was to vacate the Government's obligation to exchange the paper for gold on demand.

"That was all. He changed the character of the paper from receipts for gold to representation of gold. No monarch ever perpetrated a cleverer trick on his subjects. . . .

"What was Mr. Roosevelt's purpose? Simply this: To remove the shackles of gold that restrained the Government's inclination to counterfeit money at will. So long as the people who held paper could march up to the Treasury and demand gold in exchange, this counterfeiting business might backfire. . . .

"The fact is that money is not a reliable medium of exchange and measure of value when the Government takes a hand in its management. Money then becomes an instrument for regulating, controlling and dominating the lives of the people.

"It is a police club."

Rep. Wint Smith, of Mankato, who represents the 6th Kansas congressional district in Congress, has the knack of calling a spade a spade without either reducing it to the size of a teaspoon or magnifying it to tractor size.

Commenting on the steel seizure, Congressman Smith wrote:

"We have been hearing the phrase, 'creeping socialism,' and of the direction in which America has been traveling. This seizure of the steel mills is not 'creeping'—it is LEAPING SOCIALISM spelled out in capital letters.

"The men who wrote our Constitution were familiar with world history. They attempted to give us a foolproof document that would serve and guarantee to every American citizen certain fundamental rights.

"The makers of the Constitution never intended that any of its sacred provisions ever could be suspended by the mere whim, fancy or freak idea of some official in office. These framers of our Constitution never intended that any officers of this Government, from President down to the lowest subordinate, have any power except those powers derived from the written Constitution—all of them their offices under law.

"When any executive of the Government, from the President on down, violates the basic law as laid down by the Constitution or statutory law, it then is a matter which affects and touches the lives of every individual in this country—

"Because, if an executive can seize the steel mills, he can in the same manner take everything you possess. All he has to do is to say, 'It is necessary in this emergency,' and he is the sole judge of whether there is an emergency.

"The power to make laws was vested specifically in Congress. To the President was delegated the power to see that these laws be faithfully executed. Yet all who try to defend his seizure of the steel mills simply say:

"The President has inherent and emergency powers to seize them."

"The President has no inherent rights. He operates under law the same as all others—or is supposed to do so. Inherent right is something that belongs to the people, and to the people alone.

"Any official who undertakes to deprive the people of life, liberty or property without due process of law, or who takes private property for public use without payment of just compensation violates the Bill of Rights."

In the current issue of the Sunflower Legionnaire (Kansas Department of the American Legion) Sen. Andrew F. Schoepel states why "My vote is 'No' on Universal Military Training." He writes:

"I have received your (Department Commander H. L. Hasler) communication requesting me to vote for UMT. I have never made it a practice to straddle on any issue when I have had the opportunity to check it carefully and think the matter thru, as I have on this UMT bill.

"First, I am for a continuance of the draft for at least 4 more years if this emergency continues. . . .

"Second, I am unalterably opposed to granting the military department and the Chief Executive of this country unlimited power over the lives of the youth of our country. . . .

"Third, I am unwilling to subordinate the immature youth of this country, and civilians, to the Military. . . .

"Fourth, we have won 2 wars, and are using the draft machinery to supply men for this Korean mess, without the need or necessity for a regimented military set-up, such as UMT would, in my opinion, provide.

"Fifth, the history of nations which have adopted compulsory military training has not been too flattering. They have gone down to defeat and oblivion. . . .

"Sixth, I do not believe that UMT would be cheaper for the American taxpayers. . . .

"Seventh, finally, I shall work and vote to protect the great mass of citizens of this country in having something to say about the conditions, and under whose behest, hundreds of thousands and possibly millions of the flower of our youth shall be thrown around the world, and I shall vote against UMT."

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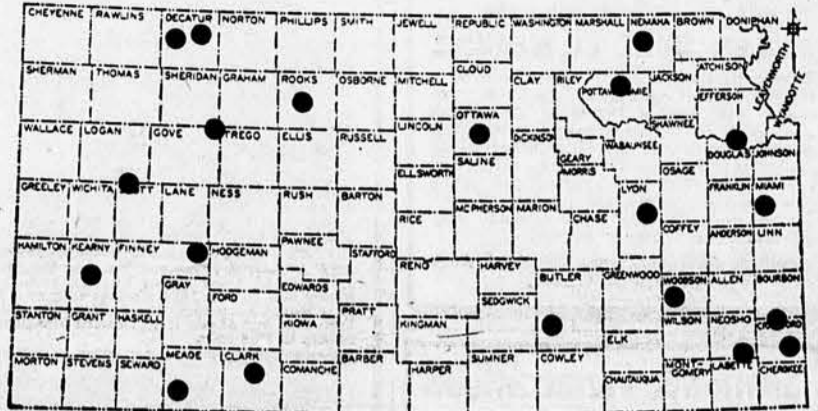
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These Lakes Ready for You

(Continued from Page 6)



BLACK DOTS SHOW location of 20 state lakes in Kansas. Federal reservoirs also are located in Trego, Ellsworth and Greenwood counties.

All state lakes in Kansas now are stocked with bass, crappie, bluegill, channel cat, drum and bullheads. The commission is experimenting with wall-eyed pike in Clark county state lake. The fish have done well there and one million more walleyed pike eggs are being brought to the site this year for hatching. "We plan to stock pike in all larger lakes, especially at Kanopolis and Cedar Bluff," says Mr. Leahy. Fall River, Kanopolis and Cedar Bluff already are stocked with white bass. Other lakes soon will be stocked with this fine game fish, too."

If you look at the Kansas map with this story at top of page you can see where all 20 Kansas state lakes are located. If you will continue reading this story you will get detailed directions as to their locations and what they have to offer your family in the way of recreation facilities.

Butler County State Park: 3 miles west and 1 north of Augusta on county road, near U. S. 54; 568 acres.

Timbered and grassland park is owned by Atchison, Topeka and Santa Fe Railroad Co., but leased to Kansas Forestry, Fish and Game Commission. Fishing usually is good, sailboating is major attraction. Boats can be rented. Park serves as wildlife refuge.

Clark County State Park: 10 miles south and 1 west on county road from Kingsdown, located on U. S. 54; 1,243 acres.

Park is well located in picturesque Bluff Creek canyon, where historians tell us Indians of many tribes sought shelter and security in days gone by.

They say large circular clearing at floor of canyon once served as tribal meeting place and council ground of plains Indians. A 337-acre lake in park provides exceptionally good fishing and other recreational opportunities.

Crawford County State Park No. 1: 4 miles north of Pittsburg on U. S. 69; 418 acres.

This popular recreational center is built around series of old strip-mine pits that have filled with water. Banks have been reforested and a beautiful drive has been built along higher ridges in park, opening new scenic vistas. Fishing, picnicking and boating attract thousands annually.

Crawford County State Park No. 2: 2 miles north and 1 east of Farlington, on K-7; 460 acres.

One of outstanding Southeastern Kansas beauty spots, this park serves as attraction to great throngs of vacationists, fishermen and week-end visitors. Federal fish hatchery is located within park and visitors are welcome. Boats can be rented.

Decatur County State Park No. 1: One mile east and 1 north of Oberlin, just off U. S. 36; 481 acres. Park serves people of wide area. Picnicking, fishing, boating and swimming are attractions.

Finney County State Park: 8 miles north and 2 west of Kalvesta, near U. S. 50-N and K-23; 853 acres. This park, off the beaten trails, serves as good fishing lake and nesting and resting place for migratory waterfowl. At present there are no facilities at this park for recreation.

(Continued Next Issue)

GRANDMA By Charles Kuhn



Clay Center Won Over 125 Teams at Annual FFA Convention



NEW OFFICERS of Kansas Association of Future Farmers, back row, left to right: Gary Neilan, St. Francis, treasurer; Ralph Braun, Council Grove, secretary; Kermit Case, Little River, reporter. Front row, left to right: Harrell Guard, Beloit, vice-president, and Billy Ray James, Clay Center, president.

CLAY CENTER won first over 125 teams in annual judging contests at the state FFA convention, held at Manhattan. Members of the winning team were Ronald Rosenow, Jim Debehm and Billy Ray James.

High individual in all judging was Ronald Rosenow, of Clay Center. High individual in farm mechanics contests was Donald Cheyney, of Chanute. Chanute won the farm mechanics contest. Stafford was second in over-all judging contests, with Belleville third and Stockton fourth.

Chanute chapter won the Kansas State College Agricultural Education Club plaque. It was given to the chapter making highest total score in all events—judging, farm mechanics and FFA activities.

This year, for the first time, highest winning teams in both judging and farm mechanics were named in the gold emblem division. Gold emblem winners in judging were Clay Center, Stafford, Belleville, Stockton, Chanute, Longford, Shawnee Mission, and Beloit. Gold emblem winners in farm mechanics were Chanute, Longford, Smith Center, Powhattan, Alma, Cherryvale, Oberlin and Beloit.

Kenneth Howe, of Stafford, won the FFA public speaking contest with his talk on "What Is Your Altitude?" Gary Neilan, of St. Francis, was second, and Jerry Wright, Olathe, third.

New officers of the Kansas Association of Future Farmers are Billy Ray James, Clay Center, president; Harrell Guard, Beloit, vice-president; Gary Neilan, St. Francis, treasurer; Ralph Braun, Council Grove, secretary; Kermit Case, Little River, reporter.

Top winners in various contests were: high teams and coaches in soil conservation, Lebanon, T. C. Robert; Independence, Thomas Stockebrand; Smith Center, Charles Mantz. High individuals: Maurice Campbell, Lebanon; Kenneth Kirton, Iola, and Delvin Duntz, Smith Center.

High teams and coaches in welding: Yates Center, Don W. Brook; Lyndon, W. R. Colle; Longford, Freeman Biery. High individuals: Alvin Link, Yates Center; Donald Cheyney, Chanute, and Vernon Shull, Colby.

Gold emblem winners in state Better Chapter contests and advisers were: Beloit, Frank Carpenter; Chanute, C. O. Carter, Jr.; Clay Center, Ray Morrison; Colby, Ronald King; Coldwater, L. E. Melia; Effingham, Roy Eck; Emporia, Emory Groves; El Dorado, W. H. McMillan; Hoxie, Willard Barry; Holton, Keith Wagoner; Little River, Milton Kohrs; Shawnee Mission, Harold Garver; Olathe, A. G. Jensen; Osborne,

Merwin Stearns; Stockton, Floyd Blauer; Winfield, Ira Plank and John Lowe.

High teams and coaches in dairy: Hillsboro, W. D. Smith; Silver Lake, Dean Prochaska; Beloit, Frank Carpenter. High individuals: Harold Klassen, Hillsboro; LaVon Schmidt, Minneapolis; Mim Goering, Pretty Prairie.

High teams and coaches in animal husbandry: Mound Ridge, Richard Ramsdale; Partridge, Floyd Nighswonger; Howard, Wilbur Hart. High individuals: Gilbert Kaufman, Moundridge; Richard Graber, Partridge; Jack Myers, Shawnee Mission.

High teams and coaches in farm machinery: Chanute, C. O. Carter; Smith Center, Charles Mantz; Moundridge, Richard Ramsdale. High individuals: Maurice Cashman, Powhattan; Leslie Dyck, Moundridge; Delvin Duntz, Smith Center.

High teams and coaches in farm carpentry: Chanute, C. O. Carter; Smith Center, Charles Mantz; Moundridge, Richard Ramsdale. High individuals: Ronald Cheyney, Chanute; Weldon Braman, El Dorado; Delvin Duntz, Smith Center.

High teams and coaches in concrete: Cherryvale, C. H. Young; Chanute, C. O. Carter; Eureka, Harry Coffel. High individuals: Roger Adamson, Cherryvale; Duane Moyer, Chanute; Donald Cheyney, Chanute.

High teams and coaches in crops: Chanute, Charles Carter; Newton, R. M. Karns; Frankfort, H. E. Frank. High individuals: Delmar Hanson, Chanute; Hal Sinclair, Chanute, and Clayton Harms, Newton.

High teams and coaches in poultry: Chanute, Charles Carter, Jr.; Columbus, Robert Lay; Cherryvale; C. H. Young. High individuals: Delmar Hanson, Hal Sinclair, and Jack McVaugh, of Chanute.

High teams and coaches in all 7 phases of farm mechanics: Chanute, Charles Carter, Jr.; Longford, Freeman Biery; Smith Center, Charles Mantz. High individuals: Ronald Cheyney, Chanute; Maurice Cashman, Powhattan, Delvin Duntz, Smith Center.

High teams and coaches in sharpening tools: Iola, E. B. Zahn; Fort Scott, Kenneth Carson; Overbrook, F. E. Simmons. High individuals: Jim Collins, Overbrook; Virgil Ewy, Kingman; Dennis Roeder, Alma.

High teams and coaches in farm power: Arkansas City, Dick Turner; Chanute, Charles Carter, Jr.; Clay Center, Ray Morrison. High individuals: James Warren, Arkansas City; Virgil Ewy, Kingman; Maurice Cashman, Powhattan.



MARTIN LOHMANN'S HOLSTEINS PRODUCE HIGH AVERAGE ON CHOPPED DRY HAY AND SILAGE

Paramount Holstein Farms, Goodhue, Minn. "With my Gehl Forage Harvester, I used the first crop, harvested during unsettled weather, for silage, and the second crop for dry hay. I get a higher protein content despite weather conditions. My father also uses this method and our herds have averaged 455.1 to 496.4 pounds of butterfat the last two years. I believe that putting up chopped hay is the preferred way of getting the crop into storage. "This past year, being exceptionally wet, many of my neighbors lost much of their hay. Using my Gehl Harvester, for the grass silage and chopped hay combination, I was able to put up three-fourths of my dry hay without being rained on. The combination gave us a high protein product despite weather conditions."

(Signed) Martin Lohmann
Free packet contains new booklet: "Streamlined Methods of Harvesting Hay and Making Grass Silage," colorful Gehl Forage Harvester Catalog, free plans for building self-unloading wagon box, using Gehl metal parts kit. Address Gehl Bros. Mfg. Co., Dept. ME-2610, West Bend, Wisconsin.

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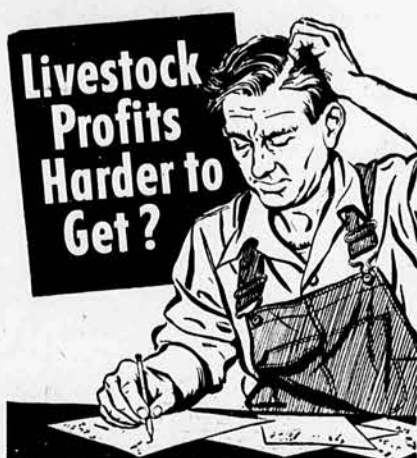
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Have you ever crossed this bridge?

You almost certainly have crossed the Ambassador bridge if you live in Detroit, or have visited there. And you know the most remarkable thing about the Ambassador bridge is the service it gives to thousands of people daily, getting them where they need to go a shorter way in a shorter time.

An engineer could give you some spectacular facts about its size—its length, its height, its weight, the number of strands that make up its cables.

And you—without an expert's knowledge—could tell *him* that the bridge could actually take shape only through the initiative and imagination and effort of the thousands of workers who designed and built it. And that its dimensions were dictated by the *needs* of the people who use it.

In some ways, a big company is like a great bridge.

Take the Standard Oil Company, for instance . . .

It has 49,700 employees.

Its total expenditure for employee wages and benefits last year amounted to \$255,880,000.

It is owned by 116,800 stockholders.

Its wells last year produced 94,990,000 net barrels of crude oil and natural gas liquids.

It refined 187,600,000 barrels of crude oil, making some 2,000 different products.

Its sales last year amounted to \$1,499,000,000, and its tax bill was \$130,435,000.

In addition, it buys goods and services from thousands of business concerns each year.

It provides the products which are the source of income for many thousands of other independent businesses.

We could cite a lot of other figures that measure the size and structure of Standard Oil and its subsidiary companies—much like the technical statistics that describe a suspension bridge.

And the most impressive thing these figures would show is that Standard Oil is a big company, but like the great bridge, it is as big as it is in order to serve the needs of its customers. It *has* to be big in order to serve so many customers well.

Standard Oil Company



A BIG COMPANY depends upon the many, many people who work for it. Each of the 49,700 employees of Standard Oil, like L.L. Noel of our Neodesha, Kansas, refinery, are backed by an average investment of \$31,400 in tools and equipment. This is largely made possible by the fact that in recent years two-thirds of our profits have been plowed back into the business. Such backing helps our employees to earn good wages and enjoy the security of steady work.



A BIG COMPANY is owned by many, many people. Among Standard Oil's 116,800 stockholder-owners is Miss Lottie Klandrud, LaCrosse, Wisconsin, business woman who has owned Standard Oil stock for more than twenty years. No one individual owns so much as 1% of our stock. No one of the institutional owners—including many educational institutions and charitable organizations—owns so much as 4%. Standard Oil has paid dividends for 59 consecutive years.



A BIG COMPANY must satisfy millions of customers in the cities, towns and farms throughout our territory. Among them are customers like H.F. Voigts of Lenexa, Kansas, who is a regular customer of Ed Gast, one of the thousands of Standard Oil agents. Through the friendly and dependable service of our agents, we supply our customers' needs with products—priced surprisingly low—that they can rely on for highest quality today, and tomorrow.