

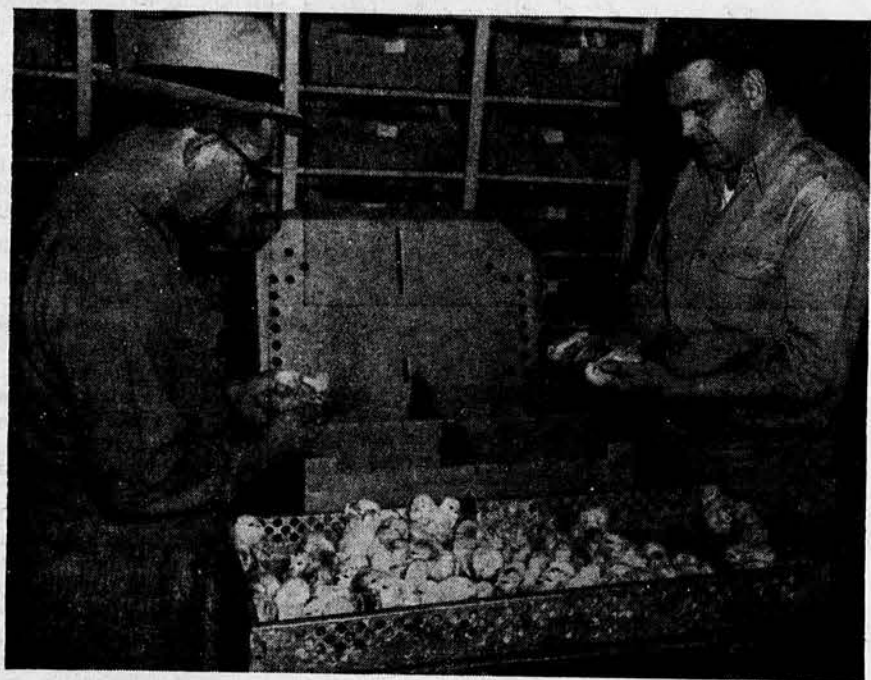
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Kansas Farmer



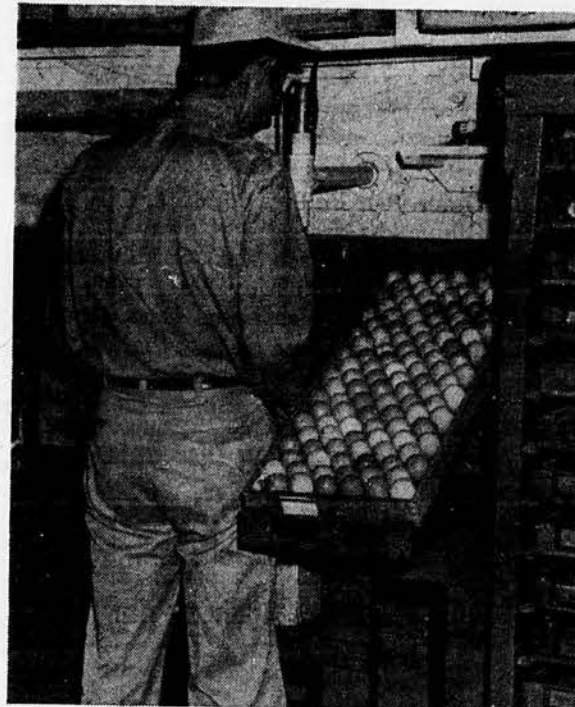
HERE OWNERS of Arens-Wise Hatchery, Emporia, show how new chicks are graded before boxing for shipment. Left is Quirin Arens, right is Ellis Wise.



AFTER CHICKS are graded and boxed they are shipped to buyer by truck or train, depending on location. Hatcheries maintain much expensive equipment to serve customers.

What's Behind Your Baby Chicks?

WE KNOW when you buy baby chicks this spring you will expect them to "live to lay." You wouldn't buy them if you didn't hope some day to gather eggs they will produce. Yet, this year as every year, many will be tempted to "save money" by getting "real bargain" chicks from some unknown hatchery. You will be money ahead if you buy from the nearest good Kansas hatchery. While Kansas hatchery chick prices may seem higher than "bargain" prices in other states, we can tell you honestly and sincerely Kansas hatcheries are doing more than those in many states to produce quality chicks. And, despite rising costs of production, they plan to hold the line on chick prices this year as nearly as possible to those of 1952. *[Continued on Page 43]*



HATCHING EGGS are carefully graded before being placed in trays ready for incubators.



ORDERING CHICKS early are Mr. and Mrs. Leo Hodges, right, of Reading, and Mrs. P. G. Cox, Madison. Early orders give hatcheries better chance to plan work and cut costs.

- Two Things Make Flock Pay.....Page 6
- Flood-Control Round-up.....Pages 16 and 17
- Ready Market for Broilers.....Page 20

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Deadline: March 31st!

While There's Still Time Get In On The Phillips 66 Annual Advance Order Plan

The Plan:

Order your Phillips 66 Motor Oils, Gear Oils, and Greases right away . . . (the offer closes March 31st). Set up a delivery date before May 31st, 1953. This single delivery saves us time, trouble, and handling. And we pass these savings on to you in special benefits.

- Money Saving Discounts
- Discounts On Orders As Small As 15 Gallons
- Protection Against Price Increases
- No Down Payment—No Cash Outlay
- The Products You Need When You Need Them



The Products:

All of the Phillips 66 Products offered in this advance order plan are designed to keep your farm machinery in top working order . . . all are products you can depend on. For example, there is Phillips 66 Heavy Duty Premium Motor Oil . . . the oil that actually surpasses manufacturers' recommendations for all makes of cars. It's a heavy duty motor oil all the way—real protection for tractors, trucks, and your other farm machinery. It provides *Lubri-tecton* . . . Lubrication plus engine protection.

Be sure to call your Phillips 66 Tank Truck Driver and get your order in now.
It's your last chance to take advantage of this great money-saving offer!

MARKETING VIEWPOINT

LEONARD W. SCHRUBEN, Feed Grains

What do you think the white corn market is likely to do? I don't know whether I should sell now or wait until July.—M. N. H.

In recent years, premium paid for white corn over yellow has increased from February to July. However, premium already being paid probably indicates white corn processors are attempting to build a reserve. If so, this year's pattern may be quite different from last year.

The odds of about 6 to 4 favor holding white corn until July if the price stays steady until March 15. If they rise as much as 20 cents or drop as much as 15 cents by that date, you probably will have a higher price by selling when either occurs.

Prices Change Rapidly

Prices for white corn change very rapidly—you must keep up-to-date because a 50-cent price drop in one week is rather common.

Many farmers are making final decisions as to what seed corn to plant for the 1953 crop. The following long-time price forecast is made as a guide to farmers who may want to consider planting white corn this spring. Of course, factors other than price should be considered and these include such things as differences in yield, ease of harvest and facilities for protection of corn from contamination.

It appears white corn will continue to bring a higher price than yellow corn of comparable grade. Currently, premiums have been about 60 cents per bushel on the Kansas City market.

From 1921 to 1933, inclusive, white corn was priced below yellow with very few exceptions. The change in this relationship was very marked beginning in 1933. In the 1930's with improved yields of yellow hybrid, farmers switched from growing white to growing yellow corn. This resulted in a comparative scarcity of white corn.

Use Some Yellow Corn

A considerable amount of white corn is used by the food-processing industry. Processors have had to pay a premium for white corn to obtain sufficient supplies. In recent years, processors have discovered how to use yellow corn for some processing. However, premiums continue to be paid for white corn even tho plant breeders have improved the yield of white corn.

If a near-normal season prevails, white corn produced in 1953 will probably bring an average premium of 15 to 35 cents per bushel over yellow during 1953-54 season. The price is quite sensitive to small changes in relative supply. Sharp changes in prices occur.

Remember, white corn commands a price when it can be sold for food processing. It must be clean to bring the higher price.

KANSAS FARMER

Continuing Mail & Breeze

ARTHUR CAPPER . . . Publisher (1893-1951)

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More per acre, per animal, and per hour

Increasing production costs! Less farm labor available! There you have two big problems faced by farmers and ranchers today. There is an answer. It lies in more efficient operations—cutting costs—producing *more per acre, more per animal, and more per hour.*

More per acre! What are the *highest* crop yields in your county on your type of soil? Perhaps you can bring yours up to meet them. Possibly by planting better adapted varieties, a changed rotation, or by greater, more efficient use of plant food? There may be one or more soil conservation practices that you can follow with profit.

More per animal! Keep track of what's new in feeds and feeding practices. Cull out the low producers, the slow gainers. Use sires with proved ability to produce quick-gaining offspring of the type you want. Increased calf and lamb crops, larger litters, and heavier weaning weights all mean more money to you. Control diseases, parasites, injuries and death losses—and you will cut your production costs plenty!

More per hour! We all know men who do things "the hard way." The work gets done, but the time and labor cost is high. Studies show that even a simple re-arrangement of chore routes may save you hundreds of miles of walking in a year. There are new practical and profitable ways of using power and improved machinery—of cutting and storing hay and silage—of feeding livestock—of doing practically all types of farm work better. Bulletins on labor saving and work simplification are available from your State Agricultural College.

Whatever plans you follow, the proof of their value is measured in terms of whether or not you *end up with more per acre, per animal, at a lower cost per unit.*

Martha Logan's Recipe for

CORNERED BEEF HASH MOUNDS

Yield: 4 servings

- 1 can Swift's Premium Corned Beef Hash
- 6 slices bacon
- 2 large boiled onions
- Toothpicks

Chill can of corned beef hash. Cut both ends off can. Push out corned beef hash and cut into 4 patties. Wrap edge of each patty with sliced bacon (1½ slices each). Fasten with toothpicks. Cut each onion into 2 thick slices crosswise. Place the 4 slices in a greased baking dish. Top each slice with a corned beef hash patty. Bake in a hot oven (425°) about 20 minutes or until hash and bacon are browned.



ONE "cost of doing business"

This time of year we are all especially aware of our taxes. We are glad that recently farmers and ranchers have received some tax relief. The "capital gains" status of animals used for breeding, dairy or draft purposes was long overdue. But taxes are still a mighty sizable item in your "cost of doing business."

And taxes are only *one* such cost, as you well know. Folks who don't know the facts sometimes say: "Look at the price of food... farmers are making a pot of money!" They overlook all the things you have to pay out. Not only taxes, but the ever-rising wages for help. Interest on mortgages or loans—the cost of breeding or feeding stock—machinery costs—feed, fertilizer, seed, repairs—and many other costs you must meet before you can earn a penny.

We are in the same boat! We, too, have a lot of costs before we earn a penny. In fact, in 1952 Swift paid out more than 99 cents of the average dollar received. Taxes were part of it. 76 1/10 cents went for your livestock and other agricultural products. Wages took a big bite. So did necessary supplies, freight charges and other business expenses. That left us 8/10 of a cent as earnings.

You work hard and give invaluable service for what you earn. So do we.

Tom Glaze

Agricultural Research Department

Quote of the Month

"If we produce more goods, we shall have more goods to divide among ourselves. If we produce fewer goods, we shall have less to divide and less to live on. No matter how many billions of dollars we may have in our collective pocket as a nation, we cannot buy more than we have produced..."

Benjamin Fairless, Chairman of the Board, United States Steel Corporation

Soda Bill Sez...

Worries are like weeds. They sprout fast and die slowly.

OUR CITY COUSIN



Says City Cousin: "It's clear as crystal your cowboy uses a water pistol."

Salt important to beef gains

by E. F. Smith, Kansas State College, Manhattan, Kansas



E. F. Smith

Good livestock management calls for free access to salt at all times for cattle.

Whether on dry-lot roughage rations, or on grass, salt may mean the difference between a profit or a loss. In winter feeding tests steer calves on a roughage ration, with free access to salt, gained an average of 40 pounds more per head in 138 days than similar steers which got no salt. Larger amounts of feed were consumed by the "salted" calves... and they made more efficient gains.

Two trials were conducted in dry lot. The calves which had free access to salt produced 100 pounds of gain at a feed cost of \$12.21 for one lot and \$16.04 for another. With two similar lots, which got no salt, the feed costs were \$19.99 and \$19.62 respectively.

Steers on a full feed of grain with salt free-choice for 210 days averaged 2.21 pounds of gain per head daily. Steers on the same ration without salt gained 2.15 pounds per head per day. This test showed little difference in feed consumption or economy of gain when the steers were on full feed of grain. It was also observed that steers wintered on dry grass consumed as much or more salt than those on summer pasture.

FREE 24-page booklet "COUNTIN' PENNIES"

Tells how pennies are just as important to a businessman as to boys and girls with a piggy bank. Write for free copy of Booklet H, to Swift & Company, Agricultural Research Dept., Chicago 9, Illinois.



PRICES

Now farmers and ranchers in a single day ship livestock to market from spots far away. They may ship a thousand, a hundred, or ten. They ship what they want to—the right of free men. But whatever the number, be it great or small, Swift's own livestock buyers will bid on them all.

Some weeks we end up with fresh meat "to our ears," while, the very next week, surplus disappears. Daily wholesale demand, with changing supply, makes the wholesale price vary, live-bids low or high. Thus, your prices are governed by what we can get for the meat and by-products... on this you can bet!



Swift & Company

UNION STOCK YARDS, CHICAGO 9, ILLINOIS

Nutrition is our business — and yours

"My Farmall® Super Team is the best combination I've ever found for getting corn planted on time"

says E. A. Kempe, Lewis County, Missouri

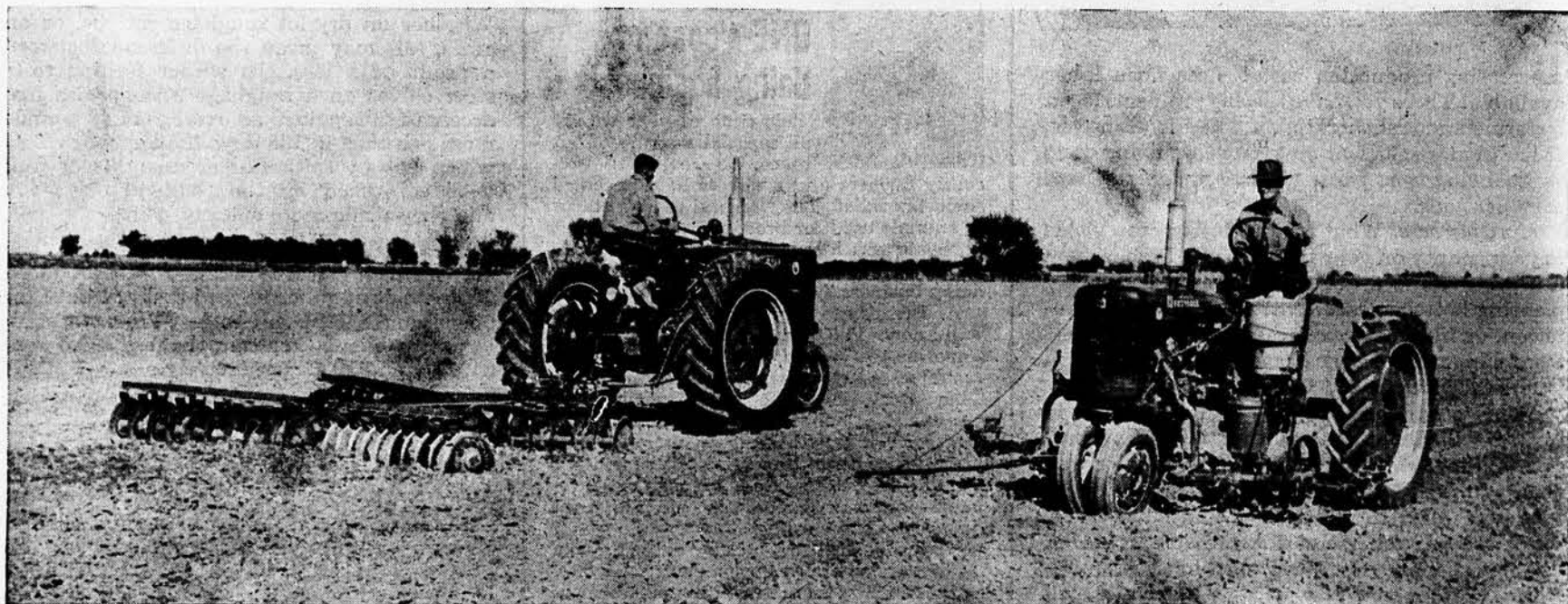


"My Farmall Super M and Farmall Super C make a great team for getting crops in the ground in a hurry," says Mr. Kempe. "After school is out in the spring, my son Earl gets on the 'big one,' pulling a 10-foot tandem disk harrow, while I plant with the Super C. Because of the speed and pull-power of our Farmalls, we get along without hired help even in busy seasons."

Mr. Kempe farms 542 acres. Three hundred acres are in corn, wheat, and oats. The oats are seeded to sweet clover for plowing under. Balance of the farm is in hay and permanent pasture. Regular liming,

fertilizing and reseeding with a timothy-lespedeza-bluegrass and red clover mixture keep high the carrying capacity of the grassland for his herd of beef cattle.

"My first Farmall, an F-20, kept us from losing a corn crop in 1935 when hot, sultry weather kept teams out of the field that year," Mr. Kempe recalled. "I've used Farmall power exclusively ever since. There is no comparison between the old F-20 and my new Super M when it comes to power and ease of handling, but both have that Farmall dependability which helps a farmer get his work done on time."

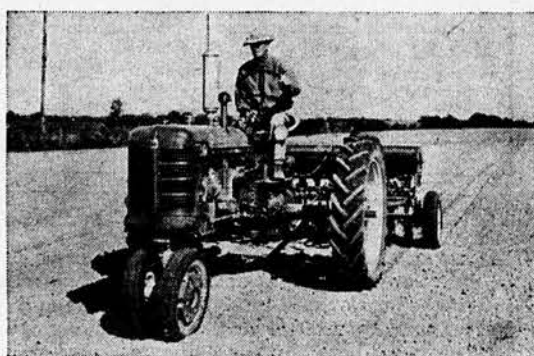


"Earl and I put in 100 acres of corn in 4 days," says Mr. Kempe. "Our Super M has plenty of power to pull the 10-foot tandem disk at 5 mph. in third gear. I follow with the Super C and planter, also in third gear. I watched

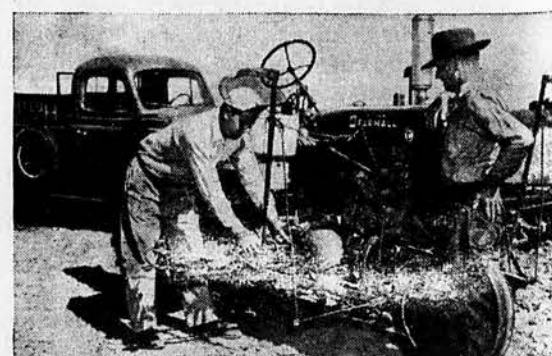
other makes of tractors and in my experience, there's no tractor to compare with the Super C for planting and cultivating. You can't help but do better work with its hydraulic Touch-Control and front-mounted equipment."



"Work is easier and faster with hydraulic Remote-Control," Earl Kempe points out. "See how easy it is to make a short turn when the disk gangs are straightened. It sure beats changing disk angle with a crank every time you come to a soft spot. Now, I set the angle just where I want it without even slowing down the Super M."



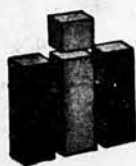
"My Super C is so easy to steer — takes only one hand," demonstrates Mr. Kempe as he puts in wheat with his McCormick 12 x 7 fertilizer grain drill. "Super C disc brakes save leg muscles, make turning at row ends less tiring. It's really easy on fuel and a money-saver too because on so many jobs it's cheaper to use a Super C!"



"I'm satisfied we get the best service from our IH dealer," Mr. Kempe commented as his IH serviceman stopped in to check over the two-row planter on the Super C. "That's one of the most important advantages of owning McCormick equipment. Our work is never delayed when we need service or repairs."

It will pay you to look over the complete line of McCormick Farmalls before spring work starts. See how you can team the more powerful Farmall Super M with a Farmall Super C to save both time and money.

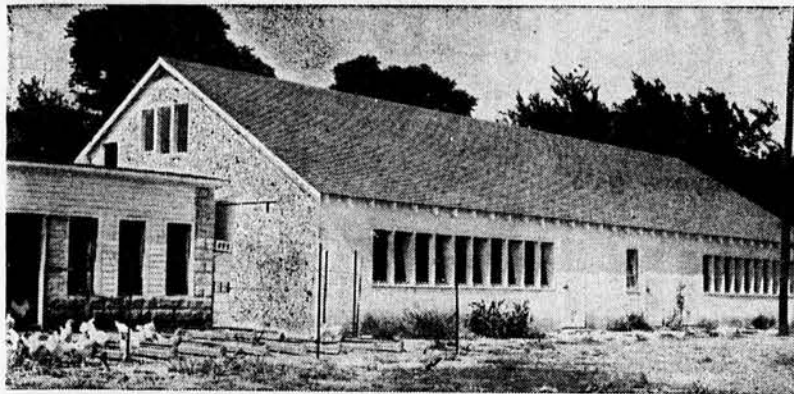
See how you too can farm more successfully for years to come. Ask your IH dealer to show you how Farmall tractors with matching McCormick equipment can help you do more work every day. Prove Farmall superiority to yourself!



INTERNATIONAL HARVESTER

International Harvester products pay for themselves in use — McCormick Farm Equipment and Farmall Tractors . . . Motor Trucks . . . Crawler Tractors and Power Units . . . Refrigerators and Freezers — General Office, Chicago 1, Illinois

Nielsen Poultry House Is Designed To Keep Up With Future Changes



ATTRACTIVE APPEARANCE of permanence is presented by Nielsen laying house. House at left is to be carried on to front even with new building, then large doors will be put in each end so drive-thru feature will function for both houses.

NEW DOUBLE-DECK poultry house Paul Nielsen, of Vesper, built has economical construction features. It is designed so it can be easily converted for many uses to keep up with most any future change in his farming program. Work began in 1951 on a 32- by 72-foot building that could serve as poultry house, machinery or grain storage building. It is of stucco covered Hadite block construction. Water in the house didn't freeze all last winter, showing sound construction.

Downstairs, house is divided in center by 10-foot area for feed and egg rooms. Upstairs is insulated, and by us-

wallboard. Sheet rock goes on ceiling with louvers in roof. Double doors at each end, upstairs and down, will make house easy to clean and service. Hy-Line pullets are started on clean ground and go permanently indoors as soon as production starts.

An American Fowl, Black Java, Disappears

Like women's apparel, styles in poultry change. Perhaps because women, more than men, are responsible for the care of farm flocks. This desire for change may account for the fact one of the early American breeds, the Black Java, has all but passed out of our poultry picture. Yet here was a fowl that had egg production merit and was an especially good meat breed.

Originating in the East Indies, Black Javas were first brought to the New World by a sailing-craft captain in 1835 who gave the birds to a friend in Northampton, Mass. Bred extensively in Hampshire county of that state for 75 years, Black Java became ancestor of the more popular Jersey Giant. But, like the Dominique which all oldsters will remember on Missouri farms 60-odd years ago, that fathered the lordly Plymouth Rock, the Black Java never has been given due credit.

Coming in glossy black and in mottled plumage the Java is as handsome a fowl as ever adorned a farm barnlot. Males are of proud carriage, black feathers having a greenish sheen. The Mottled Java is a thing of beauty with periodic splashes of white, every splash accentuating the ebony major body blackness. Compact-bodied and clean-shanked the Java's decline in popularity may to a degree be attributed to discrimination against any bird garbed in black. Few are seen in poultry shows, but on the Eastern markets the Black Java still is offered housewives whose American origin may not have roots as far back as is true of this bird.

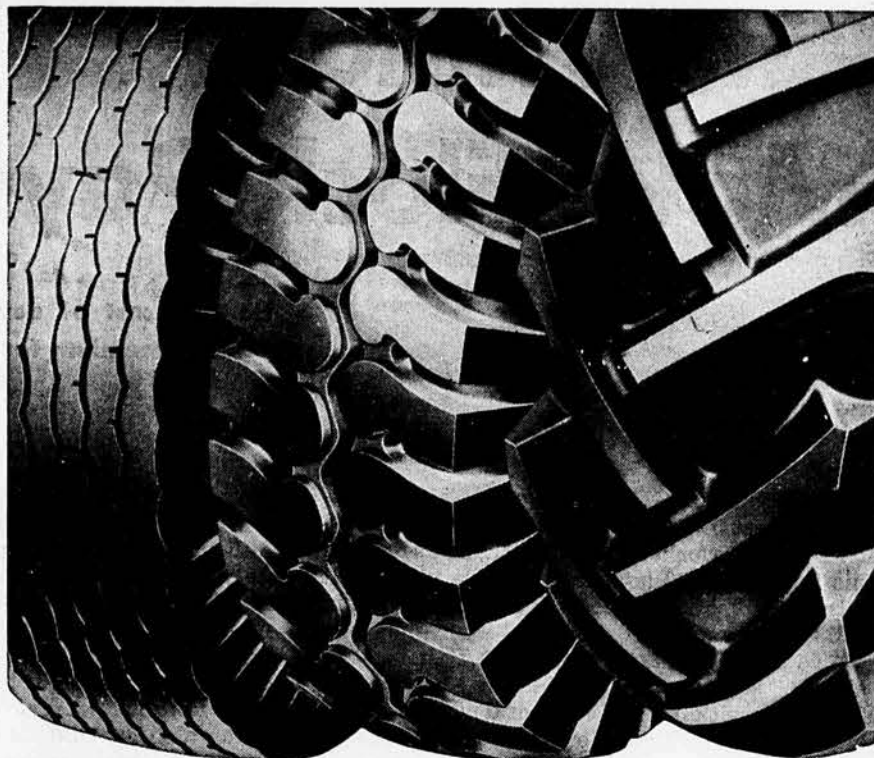
ing ventilators and fans whole building will provide excellent housing for 1,050 hens planned for grade egg production—an operation large enough to assure a worthwhile return. Eight-inch crushed rock floor is covered with built-up litter of straw and cobs. Dropping pits, automatic waterers, feeders that carry a week's supply of feed at a time are in use. Metal community-type nests, Mr. Nielsen figures, are well worth the money. He prefers welded wire under roosts for its lasting qualities.

Feed room is equipped with 5-horsepower grinder. Here Mr. Nielsen grinds, mixes and stores feed. He buys concentrates, uses home-grown grains. Egg storage room will be ready for year-around use as soon as a ventilator is installed. Eggs are marketed at Wichita, last winter's production averaging 95 per cent grade-A for the Nielsens.

Upstairs, walls are of quarter-inch



AT WORK on interior of second floor of his new multi-purpose building, Paul Nielsen's new building now houses 1,050 hens.



How would you design tires for your farm?

You'd want your tractor tires to do a full day's work in any weather. You'd make a truck tire to give you traction in the fields, mileage on the road. And the tires on your car would float you over ruts, bumps and frost heaves in perfect comfort. And that's exactly what United States Rubber Company engineers did when they designed Gillette Tires especially for your farm needs.



1. Your tractor will do a full day's work in any weather all year long with the Super Power Bar.



2. Your truck will get off-the-road traction, on-the-road mileage with the Super Traction Truck Tire.



3. Your car will get the extra low-pressure ride of Gillette Presidents. Float over rough spots with added traction and mileage.



4. Your Gillette Dealer will save you tire dollars on every vehicle you own. His Farm Tire Service means new tire economy for you.

See Gillette's Specialized Farm Line
at your Gillette Dealer's today.

GILLETTE *Tires*



Two Things Make Flock Pay!

He cuts cost of developing layers, gets
10-cent premium for eggs

By DICK MANN

USING IMAGINATION and initiative, Ernest L. Miller, Cloud county poultryman, worked out a plan that was making his flock of 1,100 layers pay him a nice profit late in 1952. His prospects for better profits in 1953 are promising.

"To make my flock pay what I thought it should," says Mr. Miller, "I figured I had to do 2 things—cut down on costs of developing layers, and get top possible price for my eggs on the market." He has met both conditions.

First off, he is a crop farmer with poultry as his only project. This means he has to work out his poultry program so as not to interfere with field work. "I get my chicks in late January if possible, but this year couldn't get them until February 3," says Mr. Miller. "By buying my chicks early I can get them past the critical stage before spring field work becomes heavy."

His feed company recommended a restricted feeding plan to develop pullets last year. Under this plan the chicks were full-fed up to 8 weeks, then the diet was gradually changed to increase oats consumption and reduce mash consumption. Two days a week pullets were fed nothing but grain.

"This reduced mash consumption from about 34 pounds a bird to 20 pounds a bird at the time they went into the laying house," says Mr. Miller. On 800 pullets he figured his saving was \$817 for the 3 months he kept accurate figures.

However, under this plan the birds are held back about one month so they do not come into production until 7 months old rather than at the customary 6 months. This reduces the feed

saving somewhat for the entire growing period but does offer another advantage, says Mr. Miller. "I try to bring pullets in from range in July and get them into production about the middle of August. When they are held back by restricted feeding until they get more body size and vigor, they start right off laying full-size eggs. They keep right on laying, then, for a full year without so much danger of molt." Mr. Miller also says his pullets are much tamer and easier to handle under the restricted feeding system he uses.

After pullets are in production they are put on a 20 per cent egg breeder mash and at noon they are hand-fed 4 pounds per hundred birds of a pellet highly fortified with cereal grasses. This pellet feed sharpens their appetite, gives them a vitamin boost and improves interior egg quality. Oats are hand-fed on the litter morning and night. "I try to feed so layers will get 60 per cent oats by weight to 40 per cent mash and pellets," says Mr. Miller. Pullets also get oyster shell and grit.

One thing Mr. Miller has done to help profits is to see there are enough feeders for his flock. Hatcherymen and feed dealers say the most common mistake poultrymen make is not to provide enough feeders. When feeding areas are crowded timid birds won't eat enough and production slumps. Mr. Miller follows the recommended 35 feet of feeding space to each 100 birds.

He also expresses a liking for the circular hanging type feeders. "I didn't think I would when I put them in," [Continued on Page 41]



ROLL-AWAY-TYPE nests are preferred by Mr. Miller, who says they keep eggs cleaner and make egg-gathering job easier.



ERNEST MILLER, Concordia, has found premium market for his eggs thru quality program that includes grading, candling and packaging eggs on the farm.



CUSTOMERS ONCE sold on quality are willing to pay premium of 10 cents a dozen in his store, Marion Collins, right, Concordia, is telling Mr. Miller.

Kansas Farmer

News and Comment

Weed Battle Results

HOW MANY WEEDS can you name on your farm? If you are pretty good at that, how many different kinds of weed seeds could you identify if they were placed in little packets on a table? We tried both last week during state weed conference in Topeka. Our score wasn't too bad naming dried pressed weed plants, but we won't brag on seed identification. Not so with county weed supervisors from over Kansas. Generally their scores were high, as you would expect, because they know their job.

What is that job? It is a double-header. Identifying noxious weeds and fighting their spread, also preventing feed and seed infested with noxious weed seeds from unloading in the state. Without this service you can imagine how weeds might over-run Kansas.

Take bindweed alone. We have been fighting it as long as the oldest farmer can remember with smother crops, salt, cultivating it at regular intervals, and more recently with chemicals. Has bindweed been licked? Not so you can notice it. During 1952, according to Vernon Woestemeyer, state weed supervisor, some 679,391 pounds of sodium chlorate were used, enough to cover 856 acres in 8,197 different bindweed patches. In addition, 86,209 pounds of 2,4-D were used on noxious weeds over the state. Without this attack on weeds, crop production certainly would suffer.

Mr. Woestemeyer also reported 30 per cent of 5,774 carloads of feed and seed coming into the state last year were found to be infested with noxious weeds. These 1,742 carloads were not allowed to unload here. County weed supervisors took around 10,000 samples last year from grain and feed to help prevent spread of noxious weeds.

Can the noxious-weed problem be whipped? It is certain some headway is being made. And undoubtedly the weed spray business is just in its infancy. Spray manufacturers and scientists will come up with improved sprays, many new ones, in the future. The weed battle is a mighty important one.

Helps Fight Fires

POWER SPRAYERS are worth their weight in weed control, fighting insects and diseases. But they also provide protection against farm fires. Many power-sprayer owners, says Farm Equipment Institute, keep this equipment in stand-by condition for emergency use in fighting fires—fires about buildings, grass, woods. Spray tanks hold enough water to control small fires. Being handy, sprayers can be used while fires still are small.

Last summer, reports the Institute, a Mid-

west farmer had just filled his power sprayer with a solution for controlling weeds when lightning set the barn afire. It was a freak "dry" storm, but lightning set the barn afire. The power sprayer was quickly brought into use and the blaze was put out before much damage could be done.

High-pressure sprayers used on fruit trees, for example, develop 300 to 800 pounds of pressure per square inch. The more pressure, of course, the more fire-killing action the sprayer can exert. Fog nozzles can be used with pressures as low as 80 to 100 pounds. And fog spray is very effective in fighting fire. Here's another piece of farm equipment that will do more than one job.

Coming to Kansas

WE ARE PROUD to announce Kansas will be host to the 1953 annual meeting and national sale of the Red Poll Cattle Club, at Topeka on November 11 and 12. Sale will be at Kansas Free Fair grounds, with thousands of Red Poll cattle enthusiasts in attendance. An invitation to the national group was extended by the Kansas Red Poll Breeders Association. G. W. Locke, El Dorado, is president of the Kansas group. J. E. Loeppke, Penalsosa, is secretary.

Breeders from 15 states are expected to attend the sale. It will be 71st annual meeting of the club, one of oldest purebred record associations in America. The national club includes 1,200 active members and about 2,300 active breeders.

Volunteer Leaders

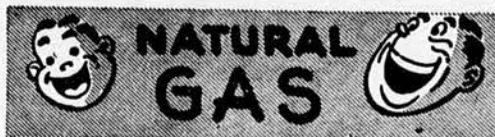
YOU WILL NOTE with interest a Kansas 4-H Club leaders conference will be held in Hutchinson, at State Fair Grounds, April 13 to 15. This is an annual event attended by some of the most important people in your community. They are among the 6,810 adult leaders and 3,859 junior leaders—all volunteers—who head up 4-H Club activities in your county. They are teachers of youth in the truest sense of the word. They are teaching young people how to farm better, how to improve homemaking, how to be good citizens, how to make the community a better place to live.

We wish to emphasize that one word—volunteer. They give their time freely in the community to further the interests of 4-H Club work. They go to 4-H leaders meetings at their own expense. Like many others in your community, who unselfishly devote much time to church and school, they have our sincere respect. J. Harold Johnson, state 4-H Club leader, made a good suggestion—that local clubs provide "scholarships" to the conference for their leaders.

A Threat to You

"THE DELUSION that you can get something for nothing, if you get it from the Government, threatens to undermine the importance of the individual citizen—the basic concept of the American way," said Allan B. Kline, president, American Farm Bureau Federation. "We in America today need to take a good, critical look at the results which can be expected from an overconcentration of power in the Government. As Woodrow Wilson implied, liberty depends upon the ability of citizens to restrain governments."

So long as men think and feel and talk like that, the rugged individualism which built America has not perished. Action along that line is a vital, continued Declaration of Independence.



"Vitamins, a new bow tie, and a game of golf may make a man feel a lot younger, but you can't fool a flight of stairs."

"You think you have worries! The giraffe with its long throat and neck can make no sound!"

"Dear, we're moving to Florida—Jim said he'd get that new Cuban TV station on our set or know the reason why!"

"Yes, Dad, I know when you were young 'you thought nothing of taking a 10-mile walk.' Well, I don't think the idea is so hot either!"

"Waffle—pancake with a non-skid tread."

"You know what average means? Poorest of the best or best of the poorest."

"Nobody ever got rid of his temper by losing it."

New Fertilizer Record

NOTE FROM WASHINGTON says Clifford Hope, chairman of House Agricultural Committee, announces setting up a subcommittee to deal with fertilizer and farm machinery problems. "We will keep a close watch on fertilizer production," Hope says, "altho there seems to be no reason for any acute shortage of fertilizer materials this year."

That reminds sales of commercial fertilizers in Kansas have reached a new high record. Also, tests by the Board of Agriculture including 454 samples of commercial fertilizers show Kansas farmers actually receive more plant food than the manufacturers guarantee. Judging from growing usage of fertilizers on Kansas farms, the new record set last year will be topped any time, perhaps this year. And current production will be stepped up to meet demand.

Always Something New

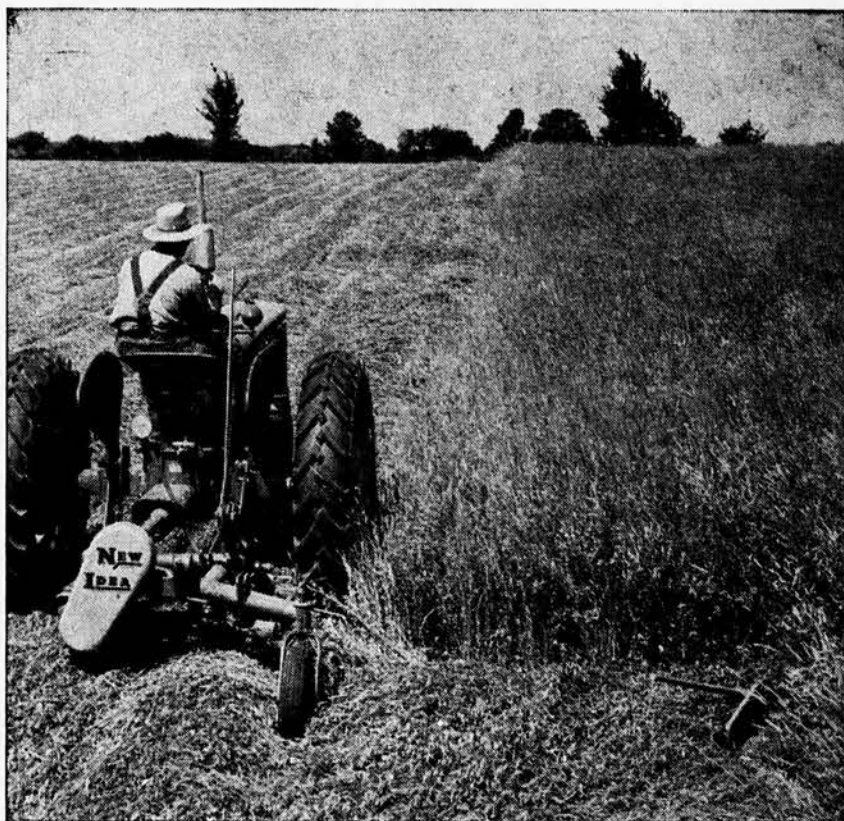
ONE OF THE LATEST ideas in farm electrification is aimed at control of insects causing damage in stored grain and in cotton production, reports the Department of Agriculture. Laboratory experiments now are utilizing radio-frequency "dielectric" heating for destruction of insects infesting wheat and cotton seed. Scientists have successfully destroyed certain of these insects by application of radio-waves for short periods. The process, which is something like the output of a large broadcasting station to a confined area, offers certain advantages in its speed and application in combating huge annual loss caused by insects.



"Stop saying I brought you into this world! You make me feel like a criminal!"



"Thank goodness! Several times, there, he gave me quite a scare. Like a bull in a china shop."



New Idea No. 40, Semi-Mounted Mower. Retractable rollers take lift and strain out of hitching and moving. Multiple-hole hitch plate has 3 up and down

positions. Eccentric cam to lock pitman straps. Spring balanced lift for raising cutter bar.

This mower talks ...listen

Machines talk to those who know the language. An expert mechanic, listening to an engine, can tell you in a few minutes whether it's a "sweet running," precision-built machine . . . or just another engine.

When it comes to mowers, you're the expert. You know mowers, you grew up with them. You know it takes a tough frame, proper alignment, close tolerances to stand up under hundreds of acres of heavy punishment.

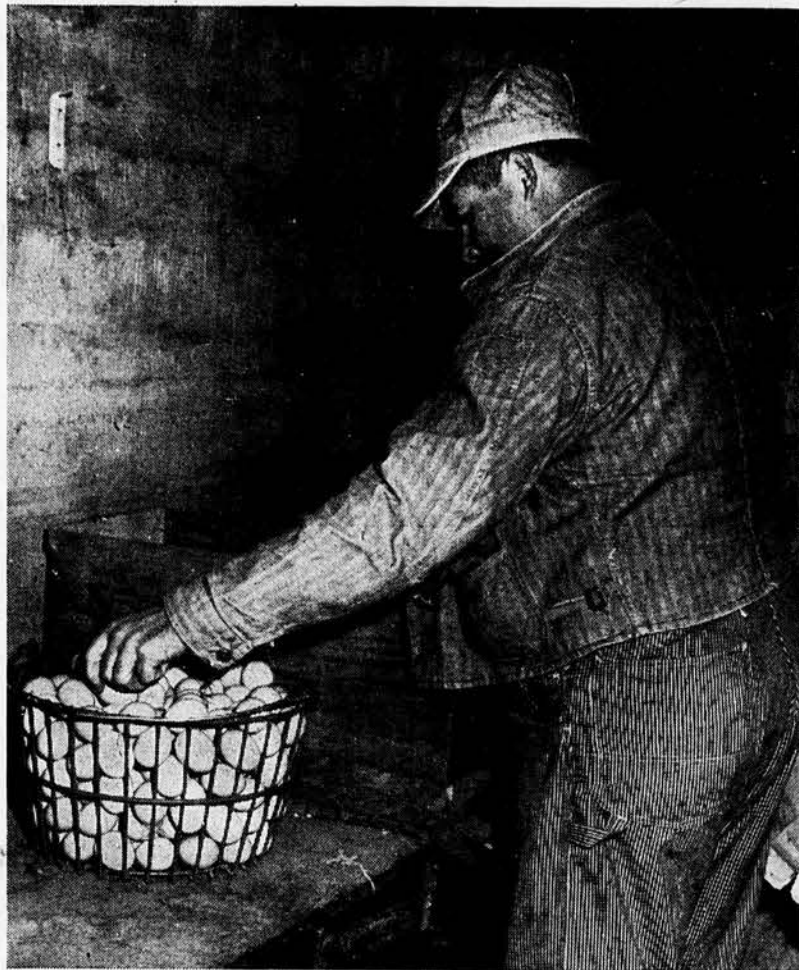
Listen to a NEW IDEA Mower. It *sounds* solid. It *sounds* sharp, smooth, strong. Like any expert, your eyes help your ears. You see how a NEW IDEA Mower hitches and unhitches quickly, easily . . . cuts clean on square corners, without strain on power drive. You see that it tracks straight and true . . . cuts cleanly through thickest, toughest hay, acre after acre.

To what you see and hear, add the fact that NEW IDEA has a history of making rugged, durable machines. You'll know why thousands of farmers, who own NEW IDEA Mowers, say that a NEW IDEA is a *good* idea.



New Idea No. 30-AH Trailer Mower. "Easy on-easy off." Gears run in oil bath. Crankshaft mounted on tapered roller bearings. Hydraulic control or mechanical lift. Equalizer arm takes strain off universal joints on sharp turns.

His Pullets Cleared \$4 a Bird On Small Farm in Harvey County



HIS EGG CELLAR is listed by Cecil Keller, Harvey county, as a big laborsaver in handling his flock. He has a hatchery flock of 1,200 birds and is a firm believer in large flocks as the surest way to poultry profits.

ONE enthusiastic supporter of the larger farm poultry flock is Cecil Keller, of Harvey county, who has a hatchery flock of 1,200 layers.

With only 50 acres on which to make his living, Mr. Keller looks at it this way: "The only 2 things you can do in volume on that small acreage are dairy and poultry." So, he is milking 14 cows in addition to his hatchery flock.

But the poultry flock is his first love and he has some reasons to back him up. "I have considerably less investment in my poultry than I have in the small dairy herd, and there is considerably less labor in caring for the poultry flock. I like the idea, too, of the poultry work being all inside when the weather is bad."

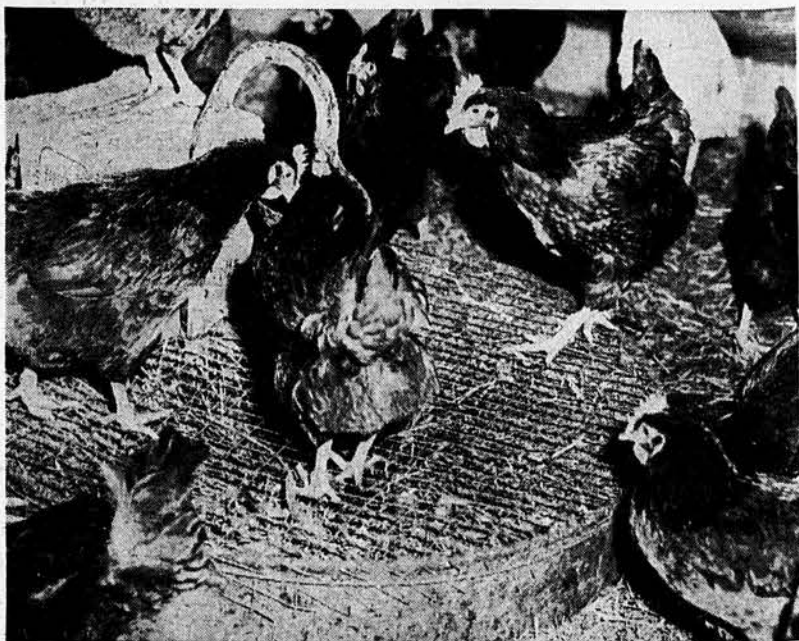
However, Mr. Keller isn't keeping his layers just out of sentiment. They have to pay off in profits shown by records.

One thing that increased his profit was at the end of the regular hatching season he sold off his cockerels and replaced them with broiler-type males. He then continued to sell hatching eggs all summer.

There are 2 laying houses on the Keller farm. The original house is 24 by 88 feet with an 8-foot feed room and an egg cellar 8 by 10 feet. "That egg cellar is one of the biggest laborsavers I have on the farm," says Mr. Keller. He places his watering system as the No. 1 laborsaver, however.

During the last year he tore down some old buildings on the farm and built a second laying house 30 by 94 feet with no partitions. "I wanted a building that could be converted to some other use if the need should ever arise," says Mr. Keller. So far he likes the one large room better than his divided laying house. "But," he admits, "I haven't been thru a winter with it yet so may change my mind." One thing he did to the new house he believes important is to provide for 2 double doors that allow him to get inside the building with equipment for cleaning the house. These doors also provide additional ventilation in summer.

Most important management practice prior to housing pullets is use of range shelters, says Mr. Keller.



A GOOD LAYING FLOCK of pullets takes a smaller investment than many other farm projects, can be handled on a small acreage, and the work can be done inside when bad weather comes, says Mr. Keller.

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FARM EQUIPMENT CO.

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"I have tried Genuine Pfister Hybrids for two years. The first year we had plenty of rain, Pfister out-yielded the other hybrids. In 1952, we had a drought and Genuine Pfister again came out way the best. My 1953 planting is going to be 100% Genuine Pfister Hybrids!"
M. W. Hinz, Newton, Kansas



"In a short feed year such as 1952 it becomes highly important to produce as much corn as possible. Genuine Pfister Hybrids have impressed me very much with their high yield and high shelling percentage."
Richard L. Googins, Humboldt, Kansas



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TWO WORLD RECORDS From one acre (alternate planting), 256.9 bushels of Genuine Pfister Hybrids, and from ten acres, 224.2 bushels of Genuine Pfister — two world records for extra yield!

GRAND CHAMPION At the recent International Hay and Grain Show, Genuine Pfister Hybrids won the championship for the shelled sample, open class. In addition, for the fourth straight year, Genuine Pfister Hybrids won more prizes than all other hybrids combined at the International Show.

ADAPTED TO YOUR AREA Your local Genuine Pfister dealer will help you select from varieties tested and adapted to your soil and weather conditions. Plan now to profit from planting all Genuine Pfister Hybrids this year!

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SMOKE P.A.

MILD, TASTY ALL THE WAY!

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"Cowboy" Copas

Popular ballad singer and star of "Grand Ole Opry"

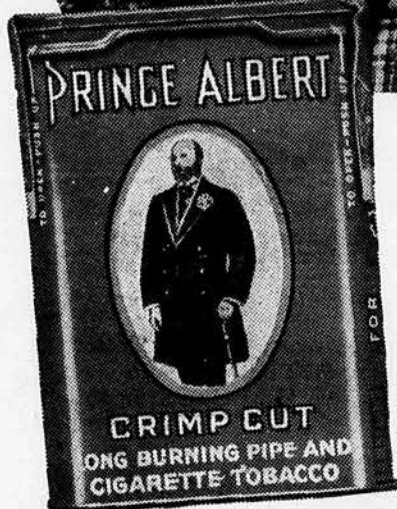
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"Grand Ole Opry"
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News of Kansas 4-H Clubs

By GORDON WEST

FOR A 1953 conservation project, Elk county junior leaders plan to plant trees there. Reporter Shirley McIntyre writes us junior leaders recently held a training school. Also on program was square dancing, talks, honoring of outstanding members of 1952. Officers elected: Jim Perkins, Flint Hill Boosters 4-H Club, president; Richard Wilson, Moline Shining Star, vice-president, and Lynn Perkins, Flint Hill, secretary-treasurer.

ored slides of Scottish farm life, writes Mary Jo Kidd, reporter of Happy Hustlers 4-H Club in Wilson county.



Happy Hustlers 4-H Club, Wilson county, members are busy making plans for 1953 club year. A committee of junior leaders, with Mary Jo Kidd, reporter, serving as chairman, has completed the new year booklets. For a community project, members decided to purchase 20 chairs for a school where the club holds its regular meetings.

Joan Shaver, IFYE student who spent 5 months in Europe last year, was guest speaker at annual achievement banquet of Cheyenne county 4-H Clubs. She showed colored slides of scenery, home life and agriculture of Irish people. Jane Mills, reporter, Plum Creek 4-H Club, also says Joan told of experiences in Belgium and Scotland.

Hustlers are happy about winning a purple seal of achievement for their club charter for 1952 activities; a \$15 prize for being most improved club, and many county grand champion prizes. Girls in the club meet for "special interest" lessons. They've made Glo-candles, plan a new lesson, "Making Aluminum Trays."

Marshall county 4-H'ers recently held a carnival to raise money for their county 4-H council. They grossed \$452.65. Each club contributed a booth, and chose a King and Queen, writes Patty Fletcher, reporter.

What Ever Became of ? Department: James N. Nielsen, now at Michigan State College with agricultural economics department, is a former active 4-H'er from Marshall county. He was president of local club, county livestock champ, became member of state 4-H Who's Who Club for top 4-H'ers. At Kansas State College he was an active Collegiate 4-H Club member. After 4 years service in the Army in World War II Jim completed a year's work at KSC to obtain his degree, in 1947. Then he became associate county agent in Wabaunsee county. In 1949 and 1950 he was at Harvard doing graduate work, received a master's degree. He is working on his Ph.D. degree in economics now, from Harvard, at Michigan State he is in field of farm management. Jim writes, "Beverly and I like it very much here in Michigan."

Princeton Jolly Workers 4-H Club in Franklin county won the 1952 Ottawa Chamber of Commerce trophy for outstanding club. It's the fourth year the club has won the award. Seventeen members of the club won county championships, and 3 were initiated into the Kansas Who's Who 4-H Club, writes Marjorie McAuliffe, reporter.

Prospectors 4-H Club in Russell county is happy about their first Purple Seal award for club charter. This is highest honor to come to local 4-H Club. Kathryn Johnson, reporter, says the club helped boost county enrollment goal of 300 by voting in 7 new members recently. This club was one of 10 in Kansas to be honored in the 1952 state news-writing contest for 4-H reporters, sponsored by Kansas Farmer.

Haver Hill Happy Hustlers 4-H Club in Butler county have an oats test plot set up to test fertilizers and crop yields, writes Clare Patterson, Jr., reporter. "The public is asked to watch for this plot and to visit it during the growing season. It is located 2½ miles east of Augusta on the north side of the highway." Clare says it's hoped thru his club's project many farmers and FFA members will profit by firsthand experience. Soil was tested and KSC Extension recommendations are followed. Members cleared the plot, plowed the land, will manage the crop.

Grantville 4-H Club in Jefferson county believes in studying safety in many ways. Three safety films were shown at a recent meeting, by Clark Nash, safety junior leader. Films included "Home Safe Home," "Safety Shorts" and "Four Points of Home Safety," says reporter Thomas Frisbie.

"That looks fine. Now everybody won't be stopping in here and asking if Scott Rankin lives here," remarked Tony Rebein as he watched Patsy Wasson paint his mailbox after she had installed a Rebein name plate.

Dean Riggs, Prairie Schooners club reporter in Ford county, writes "The community north of Dodge City was improved when members installed 37 name plates and painted mailboxes as a community project." Four years ago the club did the same work. Jerry Sawyer, mail carrier, says "That's great! That not only helps mail carriers but also adds much to appearance of entire farmstead." Dean writes the work also will make it much more convenient for visitors and callers from town. Local high school teachers say painting mailboxes is a great help in finding where farm families live when teachers travel in strange neighborhoods.

Irlene Rawlings, IFYE delegate from Greenwood county to Scotland last summer, was in Fredonia recently. She talked of her visit, and showed col-

Top antibiotic scientists and leading calf feed experts helped make possible these powerful new feeds for raising calves:



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NEW CAF-O-LIFE Milk Replacer . . . from 4 days to 8 weeks. Costs only about half as much as the whole milk it replaces . . . you can profit from the sale of an extra 300 to 500 lbs. of milk per calf. Contains full-power antibiotic, plus other essential nutrients for fast growth and scours protection. Safely replaces most of the whole milk because it's made from highly-digestible nutrients obtained almost entirely from milk sources. Easy to feed . . . does not settle out in pail or clog pail nipples.



4 Days to 8 Weeks

NEW CAF-O-LIFE Starter Pellets . . . from 4 days to 8 weeks. Tailor-made to be fed with Caf-O-Life Milk Replacer, or give antibiotic growth power to any milk feeding program. These tasty new pellets are stepped-up with Nutrena's special Livium for guaranteed effective antibiotic power, plus vitamins and other essential health-building nutrients. Fortified with digestible rolled oats for high appetite appeal. Easy to feed—just let calves eat all they want.



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NEW CAF-O-LIFE Grower Ration . . . from 8 weeks to 6 months. Gives your calves a balanced combination of nutritious Livium-fortified pellets and crimped grains for fast growth power and high palatability. It's a complete ration—nothing else needed except roughage. Supplies high levels of the important elements calves are known to need for developing into profitable heifers. For low-cost gains and big, healthy calves be sure to try this palatable new calf growing ration in your calf pens.

The New Caf-O-Life Plan:

Three completely new calf feeds by Nutrena to help you get low-cost gains, scours protection

Ag College Results Like These May Now Be Possible On Your Farm:

GAINS:

Aver. daily—
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Faster gains . . . that's what effective antibiotic levels produced in ag college feeding tests. Here, calves on an antibiotic-fortified ration gained 22% faster the first 16 weeks than calves on same feed without antibiotic.

Nutrena now helps you go after extra antibiotic gains with new Caf-O-Life Milk Replacer and Starter Pellets.

Less scours . . . another important antibiotic benefit shown in ag college tests. In this test calves getting antibiotic in their feed showed considerably less evidence of scours than calves on feed without antibiotic.

You too can get this antibiotic scours-protection from new Caf-O-Life Milk Replacer and Starter Pellets.

Important new calf raising benefits have been made possible by recent improvements in calf nutrition: "Calves getting antibiotic-fortified feed grow faster with less scours," report ag colleges after tests against non-antibiotic feeds. "New synthetic milk safely replaces whole milk at about half the cost," report research men. "New formulas help make calf feeds more appetizing, more nutritious," report feeding experts.

And now it's possible to put this modern help to work on your farm. After months of research, Nutrena has combined these nutritional improvements into a completely new feeding program for calves from 4 days to 6 months. It's called the Caf-O-Life Plan. Caf-O-Life gives you three new feeds, geared to help calves grow fast, resist scours, and develop into thrifty, vigorous heifers.

These new CAF-O-LIFE Feeds are so different they may change your ideas about feeding calves. That's why you owe it to yourself to give Caf-O-Life a try in your calf pens this year. So . . .

No matter what you've been feeding, be sure to get the facts on the new Caf-O-Life Feeding Plan from your nearby Nutrena Dealer.

"These new calf feeds are so different they may change your calf feeding ideas. See your Nutrena Dealer this week!"

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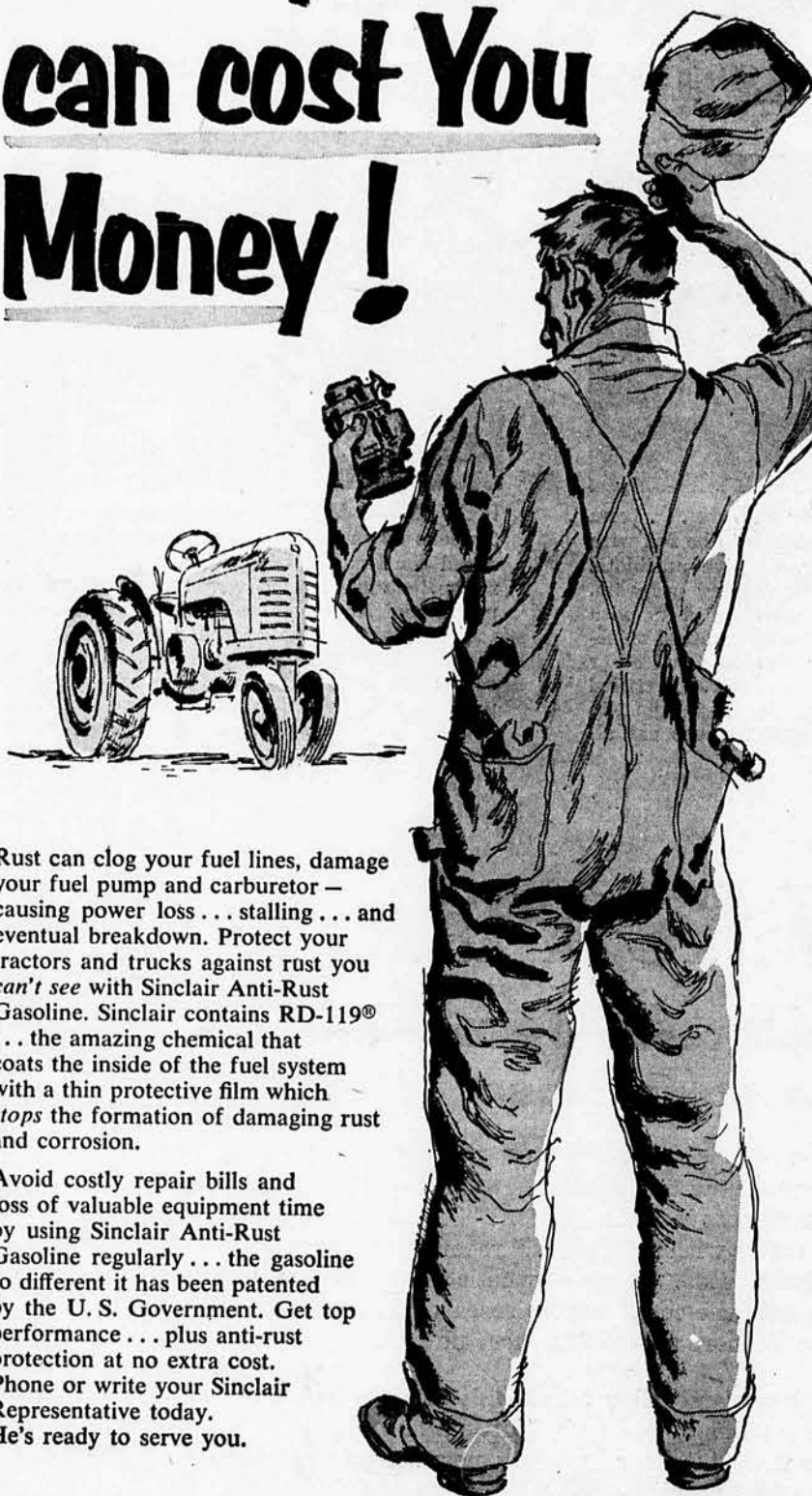
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Thoughts TO LIVE BY

"God Will Take Care of You"

TO THE EARLY disciples in Asia Minor who may have been facing the persecution experienced by Christians in Rome, the Apostle Peter wrote, "Cast all your anxieties on Him for He (God) cares about you." The modern poet, C. D. Martin, expanded this theme in a hymn which has disappeared from many hymnals, but which continues to be cherished in many hearts. One can have confidence at all times, asserts the song writer for "God will take care of you."

Will He? One man of sound mind and devoted spirit refuses to sing the song because he has seen the righteous suffer and the evil prosper. Others may affirm it with their lips while denying it with the rest of their bodies as some ulcers and heart difficulties disclose. One woman who faced death recently reported she was not afraid, but she was not sure. Would God take care of her?

Will He take care of us? Not if we treat Him as a cosmic errand boy who comes like the fabled Genii when we rub the magic lamp of prayer. God blesses His children, to be sure, but He can never be used as a means to our selfish ends. It is easy to think of God as a fire escape to be used only when the building is burning. Such a theory may work on some occasions, but beware, God is not the handyman, but the Lord of life. Acknowledging this, it can still be said that if we cast our anxieties upon Him, He always will take care of us.

How? Out of his experience, the Psalmist made answer (Psalm 103). He forgives our sins, all of them, He heals our diseases. That does not depreciate the services of our physicians and nurses. It merely ac-

knowledges that all the health-giving forces in the universe belong to Him. He redeems our life from destruction. It was His grace that kept us from making that horrible mistake. He lifted us out of the miry clay and established our way. He crowneth our lives with loving kindness and tender mercies. Would anyone in the dominant group in America deny that? He executed righteousness and judgment for the oppressed. There is justice in the universe. We meet it here and we shall also meet it hereafter. He made known His ways to Moses and His acts to the children of Israel. We see Him in the One who is the life, the truth, and the way. Modern writers of the experience-type hymns bear the same testimony. God does take care of us.

Why? Because He loves us so. The heart of the gospel is "God so loved the world that He gave His only begotten Son that whosoever believeth in Him should not perish but have everlasting life." The symbol of the gospel is a cross, a despicable instrument of execution redeemed by the love of God, and now cherished and respected by all who know His love.

Of course, there is a condition. We must cast our anxieties on Him if He is to take care of us. That assumes an alignment of life, an attitude toward God, a trust in His providence. The modern, American heresy is that we are all Christians, a few of whom peculiarly discipline their lives to do such things as going to church. Even the devils believe in the existence of God. We must go beyond mental assent and act upon our faith. Can you trust Him with your tensions? It won't be easy, but it is well worth trying. "God will take care of you."

—Larry Schwarz.

Time Spent in Your Garden May Seem More Valuable This Year

By WILLIAM G. AMSTEIN, Kansas State College

A GOOD GARDEN may be more to our liking this year. You may feel time spent in it will be of more value, not only in dollars produced but in cash expense saved. Likewise there is value in enjoyment as well as convenience of harvest close to the kitchen "garden fresh" produce. Many enjoy the "all family" enterprise provided by a productive garden.

One important phase of gardening often neglected or omitted has to do with disease control. Some disease-control jobs are not limited to any one part of the season. One principal job is to rotate the garden location, and spots crops are planted within the garden. Certainly avoid keeping crops in the same location year after year.

One of the most important practices is to locate and use disease-resistant

varieties or strains of vegetable varieties. Cabbage, beans, tomatoes, Irish potatoes, sweet corn and many other crops are available in this form. In addition certified seed is an answer for a few crops.

Seed treatment is one of the very best phases of the disease-control program available to all of us. Yet it is too often neglected since there is the mistaken belief too much time is required to accomplish the job. Only a few seconds are needed to treat each packet or quantity of seed against many common problems. Of course, hot-water treatment requires more time but is needed in only a few cases.

Seed treatment fungicides often help give more uniform stands and more vigorous plants. Seed can be treated by

(Continued on Page 13)

COMING, NEXT ISSUE . . .

Easter Calls for Ham. That's what you'll find in the next *Kansas Farmer* as feature story in the home department. Ham is traditional for Easter dinner when all the clan gathers. We give you not only the baking method, but recipes for several new glazes that will make your Easter dinner look good, smell good and taste good. In addition, we offer something new in the way of using leftover ham for the week following the Easter-Sunday dinner.

tearing off the corner of a packet of seed and adding the small amount of dust treatment that will stay on the point of a pocket knife blade. Hold package closed and shake until each seed has a coating of dust.

If nodule-forming bacteria inoculum is to be used for beans and peas, mix it with some fine soil and sow it in furrows before dropping seeds. Fungicidal dusts suitable for treating seeds are:

1. Arasan, which can be used on any kind except lettuce.
2. Spergon, on any but beets, tomatoes and spinach.
3. Semesan, on any but lima beans.
4. Orthocide is a newer material that may be used.

Still another item is early and proper use of necessary disease-control materials by spraying or dusting. This includes as well early ordering or stocking of needed items. Along with disease control early insect control is equally important. Many disease problems are introduced or spread by insects.

Leaf and pod diseases cause too heavy losses in many bean plantings every year. Often these diseases are carried on the seed. However, use of high-

Don't Take a Chance!

HAVE YOU EVER turned your car out of a traffic lane without first signaling where you're going and what you're going to do? It's dangerous. Don't take a chance!

quality, disease-free Western-grown seed usually will meet this problem. Likewise avoid locating beans in the same area year after year. Also, stay out of row areas occupied by beans any time foliage is damp. Keep your dog and chickens out also, if possible, when there is dew or rain on bean foliage.

Peas are essentially a cool-weather crop, much the same as oats. Peas are often injured early in season by root rots that do not take their full toll until hot, dry weather forces too rapid vine maturity. This means an early end to peas. While we chose to blame this condition on hot weather, much of it is due to disease loss aggravated by weather. To avoid as much of this cause of trouble as possible, plant early using short-season and low-vined varieties. Treat seed to aid in controlling losses.

In the western two thirds of Kansas most years a tomato variety able to set in a short season represents the best answer. In most years if foliage is wet from irrigation or rain more than average disease losses will occur. You may recall the lower leaves drop off and the condition progresses on up the plant. Early checking of this condition by use of some type of fixed copper spray or Bordeaux mixture is very important. Materials sold under the "zineb" group name could also be used. Items such as Parzate, for example.

You Are Welcome

Dear Editor: I would like to express my appreciation for the pen and pencil set awarded me by *Kansas Farmer*.

I enjoyed serving as reporter of the Rome Rockets 4-H Club, Sumner county, Kansas. The encouragement of boosters of 4-H, like yourselves, caused me to want to report for our club.

I am now in the Armed Services. However, after service I hope to again breed Hereford cattle and promote 4-H.

The training and experience I had while in 4-H are helping me get adjusted to army life.

Our family gets *Kansas Farmer* and I look forward to its arrival. *Kansas Farmer* will help me keep up with my friends back in Kansas.—Sincerely, Arlos Rusk, Camp Roberts, Calif.



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● Albers feeders know they are getting all the benefits of nutritional discovery just as fast as Albers research proves each new factor to be both safe and profitable.

The sun factors, the soil factors, and all the known values of fresh green grass—as well as Vitamin B-12 and the most powerful known antibiotic feed supplement—are all contained in Albers Chick Starter—in scien-

tific, research-determined amounts. Constant tests at the Albers Research Station determine which factors, and how much of each, will produce the greatest success for Albers feeders.

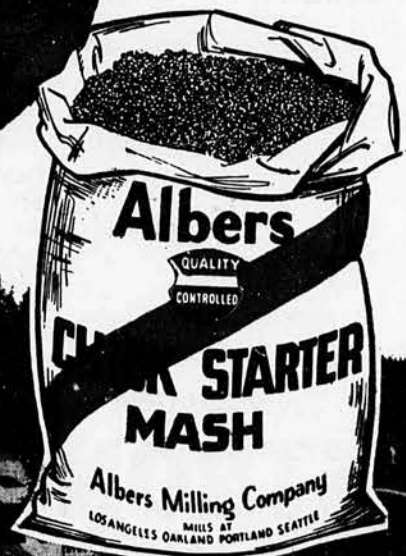
You may rest assured that you are both safe, and sure of top results, when you buy Albers "research-developed" Chick Starter.

BETTER Start with Albers...
for a **BETTER** laying Flock
this Fall!

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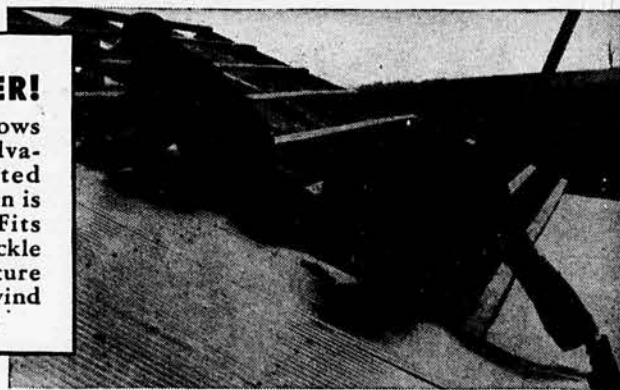
proving ground for all Albers Quality-Controlled Feeds



FREE! New Booklet Shows How You Can Build for Farm and Ranch Stronger, Easier, Cheaper the **STRONGBARN** Way

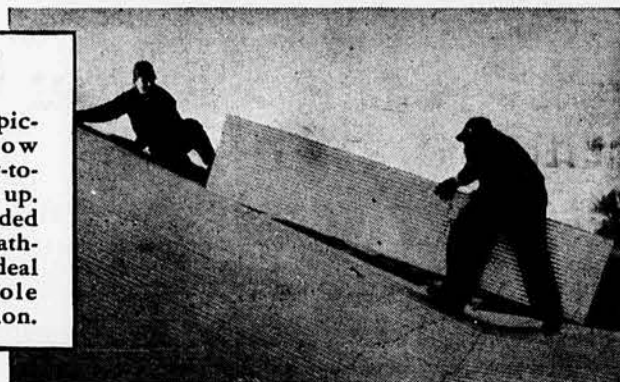
1. STRONGER!

New booklet shows how tough, galvanized corrugated steel Strongbarn is 56% stronger! Fits tight, won't buckle or bend, puncture or tear under wind and snow loads.



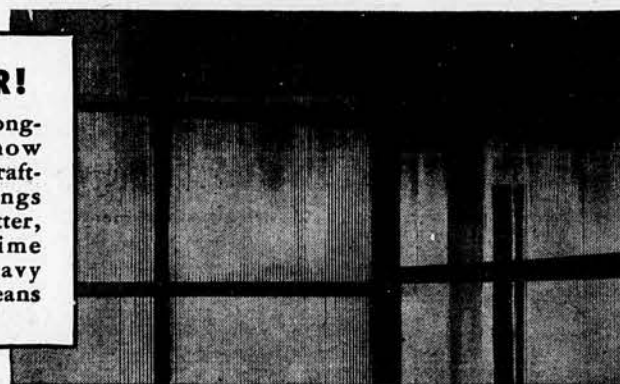
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Main Apple Varieties in Kansas Are Delicious, Jonathan, Winesap

By JAMES S. BRAZELTON

ALTHO THERE ARE about 1500 distinct types of apples grown in this country, Kansas orchardists have concentrated on 3 known for their flavor and keeping quality. They are Delicious, Jonathan and Winesap. Many years ago, when the apple industry was at its height in Northeast Kansas, Ben Davis and its very close relative the Gano, were leading varieties. These 2 apples created more and greater fortunes for Doniphan county growers than any combination of varieties since. In that day apple growers rolled in prosperity. Bountiful crops piled one upon another. Most apple growers paid off their mortgages, paid cash for new cars each fall, and when the first snow fell headed for warmer climates.



J. S. Brazelton

Today, Jonathan is the most popular apple grown in Doniphan county. It undoubtedly is a seedling of Spitzenberg. It originated on the farm of Philip Rick, in Ulster county, N. Y., and was first described in 1826. Specimens of it were sent to the Massachusetts Horticultural Society in 1829. The original tree was still alive in 1845. The tree was distributed under various names. Before the name Jonathan finally stuck it was called Philip Rick, King Philip and Ulster Seedling. The name Jonathan came from Jonathan Hasbrouck to whom goes the credit of getting the new apple before the public.

A Very Old Apple

Probably the next most important apple in Doniphan county is the common Winesap. No one is absolutely certain as to where this variety originated. It is one of the oldest varieties in the United States, and has been suggested there are more Winesap trees in the apple orchards of this country than any other variety. Winesap is mentioned in a book, "A View of the Cultivation of Fruit Trees," by William Cox, published in 1817, at Philadelphia.

The Winesap has become the parent of a great many seedlings, greatest of which is Stayman Winesap, having sprung from a Winesap seed planted by Dr. J. Stayman in 1866, at Leavenworth. It bore its first fruit in 1875, according to the record. It did not attract any special attention until after 1890, and was not listed in nursery catalogs until 1894-95. Since that date it has been extensively planted in the East and to a lesser extent in the Central States and the Northwest.

Delicious is now perhaps the leading variety in the United States, as far as popularity with the consuming public goes. It was discovered in 1881 by Jesse Hiatt, on his farm near Peru, Ia. It was first named Hawkeye, but after propagating rights were purchased by Stark Brothers, of Louisiana, Mo., in 1895, its name was changed to Delicious.

Currently there is a revival of interest in old-time apple varieties centering in a controversy over their merits

as compared to modern, improved varieties. To mention only a few of these old-time favorites, never heard of now, are the summer apples like Sweet Bough, Golden Sweet and Red Astracan. Varieties that ripened in fall were Rambo, Maiden Blush and Famuse or Snow. Apples to put in the cave for winter were Pearmain, Willowtwig, Bell Flower, Northern Spy, Newtown Pippin and Missouri Pippin.

If we could taste some of these apples again we probably would be disappointed for memory has a habit of playing tricks. Often we are disillusioned about things of our youth and this could be true of apple flavors. Perhaps of all old-time apple favorites the one most readily recalled is Genitan. It was not much for looks. It lacked color appeal and was rather small as compared to apples these days. What it did have tho, old-timers contend, was flavor, aroma and plenty of juice. Genitans tasted better in spring after being stored in the ground all winter.

Discovered by Accident

All these early varieties came into being by chance. All were accidentally discovered from vagrant seedlings. That was before we knew anything about genetics, the science of breeding. Today, from a microscopic study of chromosomes in germ cells of 2 kinds of apples to be cross-pollinated, the propagator can tell in advance what will be the characteristics of the offspring.

The U. S. Department of Agriculture, state experiment stations and commercial breeders are busy creating apples to meet present needs. If all desirable features longed for in an apple could be embodied in one variety it would be quite an apple indeed. An ideal variety would have to be vigorous, first of all. Then it would have to be disease, drouth- and frost-resistant.

It would have to be a tree that bears heavily every year instead of every other year. It would have to produce a fruit that is big, juicy, sweet and highly colored. The fruit would have to keep well in storage and not bruise easily in handling. It is too much to expect that such perfection ever will be reached in one variety.

New Record Set For Cattle Numbers

A new, all-time high for numbers of cattle and calves on Kansas farms occurred January 1, 1953, with 4,428,000 head. This is a 2 percent increase over last year's record number and 17 percent greater than 10-year (1942-51) average, according to the U. S. Bureau of Agricultural Economics and the Kansas State Board of Agriculture.

The numbers of other livestock decreased. Hogs and pigs declined 30 percent to 1,042,000 head, and sheep and lamb numbers were down 19 percent, at 523,000 head. Total chickens on Kansas farms were placed at 11,844,000 head, decline of 14 percent over 1952. Horse and mule numbers declined 15 percent, with only 129,000 head—9,000 of that number being mules. Turkeys numbered 115,000 head, down 18 percent.

HOW'S YOUR FARM I. Q.?

1. In what state was the first land-grant college located?
2. Where did Aberdeen-Angus cattle originate?
3. How many farmers are there in the United States?
4. What state produces most corn cob pipes (from special corn varieties) for this unusual farm industry?
5. What "Johnny-come-lately" crop was introduced into the United States from the Orient?

(Answers will be found on page 18.)

YOUR CROPS GO IN with the Greatest of Ease.....



Eagle Hitch
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Model "DC"

New "low-seater" in low-cost 2-plow "VA" Series has low platform, too — yet full clearance for cultivation. Uses either "look-ahead" cultivator up-front, or Eagle Hitch rear-mounted sweeps or shovels.

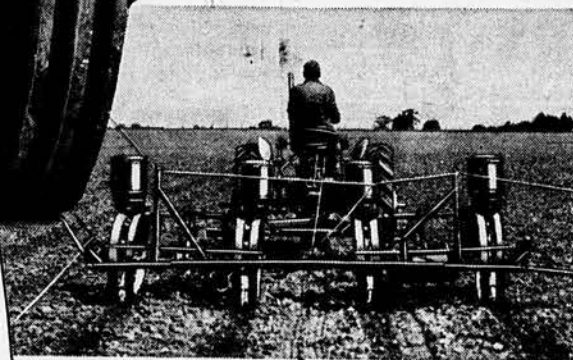
EXTRA ACCURACY WITH CASE EAGLE HITCH TRACTORS, PLANTERS AND SEEDMETER DRILLS...

● **One-minute hook-up** sitting down. Mount most Eagle Hitch implements without leaving driver's seat.

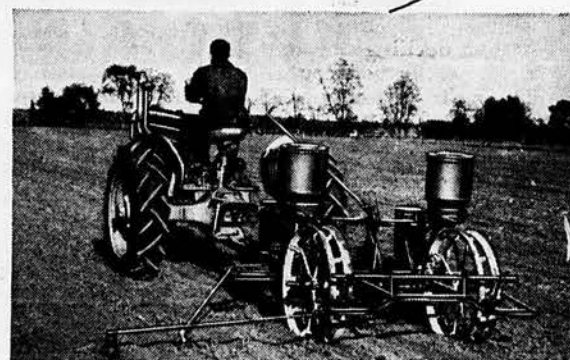
● **Constant hydraulic control** lifts, lowers, adjusts mounted or pull-type implements any time, moving or idling.

● **Constant power take-off** on Models "SC" and "DC" keeps PTO machines going while tractor stops and starts.

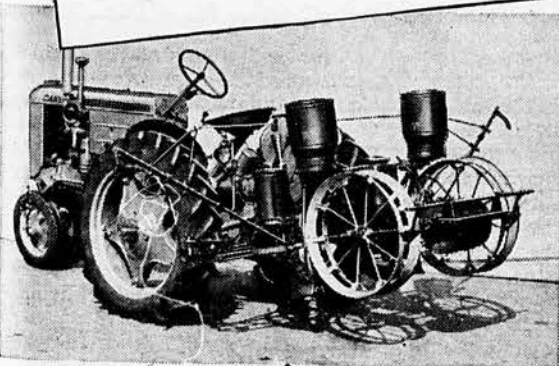
● **Shock-free steering** keeps jolts from jerking wheel, spares driver from bruised hands, aching arms.



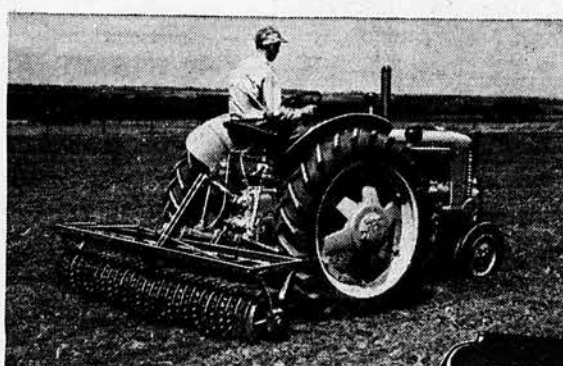
New 4-row planter is flexible—puts seed at even depth in uneven ground. Big seed boxes save refilling time. Adjustable row spacing. Check-row or drill. Pulls behind any tractor.



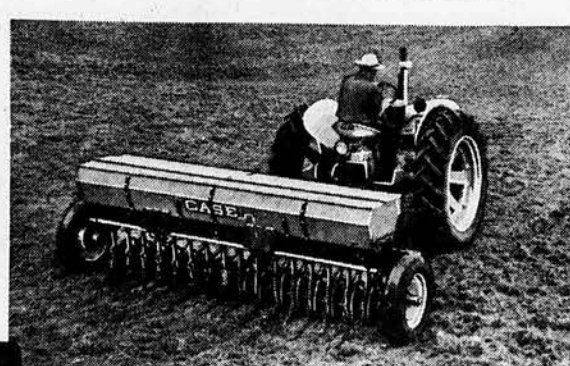
Two-row "46" drill planter works with any tractor, has handy screw-crank for precise depth adjustment. Big fertilizer cans shown are optional. No. 45 is similar but check-row.



Eagle Hitch "45E" planter and similar "46E" are full-mounted, raise clear at a touch of Constant Hydraulic Control to turn or travel without touching. Work with all Case Eagle Hitch Tractors.



Eagle Hitch Roller-Packer lifts by hydraulic control for short turns, quick travel. Toothed mulching wheels have floating motion that is self-cleaning. Shown on the big 2-plow "SC" Tractor.



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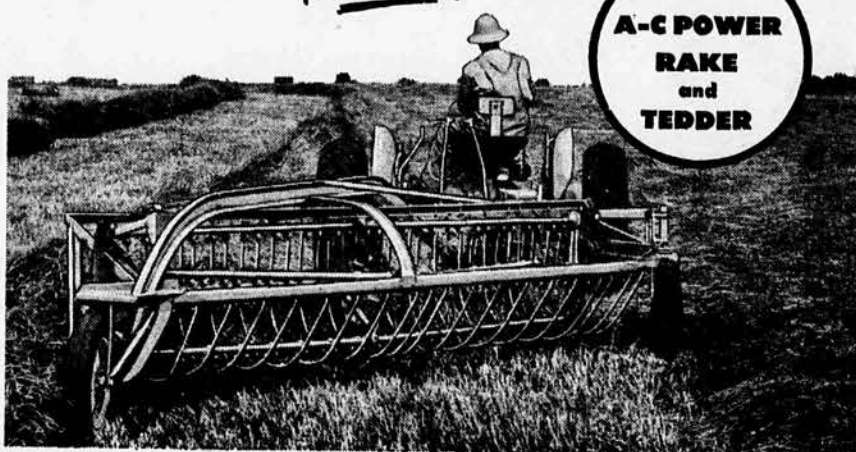
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Flood-Control Job Is a Big One!

By DICK MANN

Editor's Note: This is second in series of articles on water-management problems as they affect Kansas. First one explained proposed watershed legislation to be considered by the Kansas legislature. This one tells about backstage activities concerning control and conduct of flood-control projects.

THERE ARE RUMBLINGS from Washington that a major shakeup is being considered at top levels in flood control. A recent issue of Engineering News-Record reported the Congressional Subcommittee on Civil Works had spoken out for closer control of water-resources development projects, and for clear limitation of Agriculture Department responsibility in flood-control programs.

In its study of Department of Agriculture's place in flood control, the committee said the Department should retain top authority for soil-conservation and land-improvement works, but it should submit all proposals for flood-control operations involving sizable structures to the Army Engineers for review and approval. The Corps of Engineers would be responsible for relating these flood-control projects to its own programs, and would transmit the co-ordinated plans to the Public Works Committee.

According to the Engineering News-Record, the Department of Agriculture may have to give up the bulk of its flood-control work, if recommendations of the subcommittee are adopted by Congress.

In its report, the subcommittee concluded that waterflow retardation and soil-erosion prevention are not flood control and should be pursued under the land-management program.

"Deplorably Meager and Inadequate"

Severe criticism was leveled at the Agriculture Department for its alleged failure to come up with anything worthwhile with 54.5 million dollars it had received for upstream flood-control work since passage of the Flood Control Act of 1936. The report pointed out that the department has 1,000 surveys pending and has completed only 60 in 15 years. Out of 18 million dollars spent on surveys the results were listed as "deplorably meager and inadequate."

The Public Works Committee of Congress, says the Engineering News-Record,

is expected to give serious consideration to the following:

1. Legislation to cancel present authority for the Department to make flood-control surveys under Public Works committee or flood-control law.
2. Legislation requiring the Secretary of Agriculture to make recommendations for future flood-control work thru the Corps of Engineers.
3. Repeal of authority under the Flood Control Act of 1936 for Secretary of Agriculture to make preliminary examinations and surveys for runoffs, water-flow retardation, and soil-erosion prevention.
4. That no new authority be given the department for examinations and survey for flood control that would parallel authority of the Corps of Engineers.

Altho the subcommittee was almost equally critical of the Corps of Army Engineers it still seemed to feel that full supervision over flood control should be given to the Corps.

Still other approaches to co-ordinate flood-control and irrigation work in the Missouri river basin were recommended to President Eisenhower recently by the Missouri Basin Survey commission named by former President Truman last year to study basin problems.

Would Co-ordinate Efforts

A majority group of the commission recommended that over-all supervision and co-ordination of the work of the various government agencies in the basin be placed with a 5-member commission.

It was suggested this group (to be appointed by the President with Senate confirmation) would study proposals and budgets of Army engineers, Agriculture Department and Reclamation Bureau to see that there is no conflict, duplication or overlapping of their work in connection with flood-control, irrigation and reclamation projects.

Under the majority plan agencies involved would be required to submit budgets to the commission for inspection. All states in the river valley, including Kansas, would be embraced in the plan but any state, by taking affirmative action, could remove itself from the operation.

A minority group in the commission recommended a state compact approach for a valley—a method whereby

(Continued on Page 17)

GRANDMA

By Charles Kuhn



states would form a compact among themselves and supervise the work.

You will be interested, too, in the report of the Great Plains Council, which made a study of the effects of large reservoirs constructed in some of the Plains states by the Corps of Army Engineers and the Reclamation Bureau. The Great Plains Council was made up of directors of agricultural Extension services in the Plains states, and representatives of agencies within the U. S. Department of Agriculture directly concerned with advancement of agriculture in these states.

Purpose of the council survey was to learn how, if possible, to reduce the adverse effects of large reservoirs. Here is a brief summary of suggestions resulting from the study:

1. Reservoirs proposed by the Government should be planned co-operatively by federal and state agencies and discussed in detail with the local people directly affected.

2. Local damages likely to occur need detailed study in planning reservoirs.

3. When private property is taken for public use, methods of land acquisition should be such that the owner will feel his interest is fully represented and the price offered him should be adequate to enable him to buy comparable property.

4. Owners whose land is taken for public use should not be penalized in the treatment of capital gains.

5. The Government should avoid im-

pairment of the finances of state and local governments when it acquires land for reservoir purposes.

6. Costs of relocation and disturbance, which terminate and can be measured, should be paid by the Government.

7. State and federal agencies should assume joint responsibility for advisory and technical assistance for the displaced and, when necessary, should provide credit to facilitate the move.

Choices Should Be Given

8. When towns must move out of reservoir sites, they should be given a choice between accepting cash for their public buildings and other facilities or replacement with equally serviceable buildings and facilities.

9. Reservoir land, which can remain in agricultural use, should be managed so its productivity is maintained and tenants have reasonable security of tenure.

10. Good public relations are of utmost importance when federal agencies deal directly with individuals affected by construction of reservoirs.

11. Local people should be organized so as to enable them to work effectively with federal agencies.

The entire report of the council is fascinating. If you would like to study the full report write: Agricultural Experiment Station, Kansas State College, Manhattan, Kansas, and ask for Circular 293, Great Plains Council Publication No. 6.

Engineers Offer Flood-Control Plan

KANSAS HAS a new flood-control plan, announced at Topeka, February 16, at a joint session of the House and Senate at the State Capitol. Reporting was Governor Arn's special 3-man engineers' team to study flood control for the Kansas River Basin.

The report offered a new, 3-way plan: adequate flow-way channels, control of flood channel occupancy, and better flood forecasting. The group recommended an immediate halt to construction of big dams and reservoirs—Tuttle Creek, Kirwin and Webster. They also said no more dams should be started until the state can review the

board's findings and recommendations.

Kansas Farmer for October 4, 1952, brought you a story on appointment of the 3 nationally-famous engineers to make a study of all local and federal plans for flood control and water-land use in the Basin. They were to offer a practical plan for protection of farms, cities, industries and transportation. Another, final report by the group will be made on May 1. In their preliminary report, they were critical of federal estimates of flood damages, costs of reservoirs and estimates of benefits. The group believes their plan would mean a saving of 650 million dollars.

Missouri Basin Survey Commission Gives Findings and Recommendations

REPORT of the President's Missouri Basin Survey Commission was made public February 20. Open hearings were held in each of the Basin states. More than 400 witnesses supplied information, and counsel was received by governors. Rep. Clifford Hope, Kansas, was one of 12 members of the group.

To carry out the President's directive for the survey, the Commission made an economic appraisal of current and proposed programs in the Basin.

They report "improvements are necessary in financial and accounting practices" and emphasized importance of independent studies to settle cost allocation and other controversial matters. Also emphasized consideration of the human factor—"It is impossible to place a dollar value on the heartbreak of a destroyed home."

An executive order of January 3,

1952, started the Commission's work. James E. Lawrence, Nebraska newspaperman, was named chairman of a 12-man Commission. The group made a complete analysis of the Basin and its problems, was in session about 60 days.

Here Are Highlights

Here are highlights of their report:

PART I (Recommendations on organization for land and water resource development). The group unanimously agreed there is a need for a certain basin organization to direct and co-ordinate development of land and water resources. They recommended Congress enact legislation to establish this new Missouri Basin Commission (NOT a Missouri Valley Authority set-up). Within a 2-year period after Congressional enactment, each state could decline by legislative action to consent to operation of the Commission in the state.

PART II (Recommendations on national policy with respect to land and water resource development): (1) That there be greater local financial responsibility; (2) Payments in lieu of taxes on lands acquired by Federal resource development . . . might be provided in the Basin from a fund made up of a percentage of the gross proceeds from sale of power, irrigation, and municipal water and a proportion of land rentals.

PART III (State and local participation): (1) Local contributions to resource development should be greater to lessen burden on Nation as a whole; (2) Improvements in State resources

(Continued on Page 39)

The Automatic Farm

Here's a new booklet that lists more than 100 special controls and control systems for farm application—"The Automatic Farm." It's 20 pages, illustrated, and features devices that automatically regulate such operations as barn ventilation, crop drying, milk cooling, soil heating, and chicken scalding. Published by agricultural division, Minneapolis-Honeywell Regulator Co., Minneapolis, Minn. For your free copy, write Farm Service Editor, Kansas Farmer, Topeka, Kan.

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See how the leaves are roll-pressed and stems are flattened. Packed with protein and carotene, they approach the feeding value of a concentrate feed. Three tons of early-cut, roll-baled alfalfa can equal a ton of protein meal—plus a ton of ground ear corn or grain.

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Be weather-wise. Store plenty of rolled bales and you'll never be caught short on feed. Feed hay the forkless way—roll-baled—with the leaves rolled-in!

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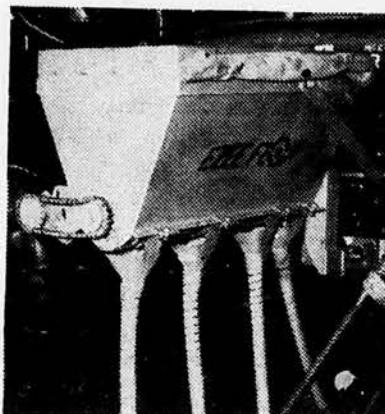
No guesswork, no fuss—just set the simple Ezee Flow positive-control dial and forget it. Remember, with Ezee Flow you save fertilizer, time, labor and tractor fuel—and can spread up to 120 acres per day. Ezee Flow will also accurately sow small grains, legumes and grasses. In fact, Ezee Flow will do more additional spreading and seeding jobs for you than any other spreader on the market.

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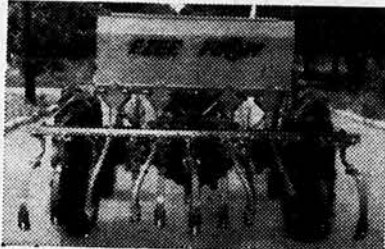


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To meet an ever increasing demand for side dressing equipment, Ezee Flow gives you a choice of either the 2-row model—SM-22, or the 4-row model—SM-34, as pictured.

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Weed Killer Developments Reported At Annual State Weed Conference



(Picture courtesy of The Topeka Daily Capital)

HONORED WEED SUPERVISORS for 15 years of service in their county announced at annual State Weed Conference at Topeka, February 18, included Francis Bray, Chase county; D. H. Putnam, Butler county; A. H. Myles, Osborne county, and A. C. Chipman, Graham county, all receiving certificates from Paul Ijams, far left, assistant secretary of Kansas State Board of Agriculture.

LATEST developments in weed killers and how to apply them were told at annual State Weed Conference, at Topeka, February 18 and 19. Other highlights included honoring county weed supervisors and hearing of weed inspection and control work in Kansas for 1952.

At the annual banquet, 18 supervisors were honored for 15, 10 and 5 years of service. Those in the 15-year group are shown in the accompanying picture. In the 10-year group were: Harold Couse, Cheyenne county; Everett Samples, Finney county; Mike Dinkel, Greeley county; J. J. Davis, Wabunsee county, and W. C. Ringisen, Wallace county. In the 5-year group were: Rollo Thompson, Franklin; G. C. Modlin, Jewell; Martin Fulton, Kearney; Winfield S. Laird, Lane; John Halcomb, Linn; Orland K. Hopkins, Pratt; LeRoy Hucksoill, Russell; Homer Byer, Seward; William Tannehill, Lincoln, and Roy Singleton, Woodward county.

Vernon Woestemeyer, state weed supervisor, reported 30 per cent of carloads of seed and feed for entry into Kansas in 1952 were rejected due to noxious weed seeds. Only 8.6 per cent of trucks were found to have noxious weeds in feed and seed loads. County supervisors took 9,879 samples in 1952 in their job of preventing noxious weed seeds from spreading—6,494 on grain and 2,885 on roughages.

In fight against bindweed, 679,391 pounds of sodium chlorate were used. Total of 86,209 pounds of a new 2,4-D spray were used in 1952. These 2 chemicals were among several on exhibit.

Boron materials for killing noxious weeds and TCA to kill weeds in grass were interest-drawing displays, too. Manufacturers also showed some crabgrass killers and new insecticides and equipment.

Prof. J. W. Zahnley, Kansas State College agronomy department, spoke on "Defoliants and Desiccants as Pre-Harvest Sprays." He told of successful tests on spraying sweet clover and alfalfa plots at Manhattan, Hays, Garden City, Kingman and Meade. In each case, there was a marked increase in pounds of seed per acre for sprayed plots. He gave precautions in handling preharvest sprays. This new method is here to stay, he said, predicting it will become a standard procedure in harvesting seed crops of small-seeded legumes.

Soil sterilant chemicals, pasture weed control methods, weed control in crops, and aerial spraying were topics for other speeches by authorities.

Answers to Farm I. Q. Quiz

1. Michigan—Michigan State College opened in 1857.
2. Scotland.
3. 4,603,000—according to 1950 U. S. Census. (This figure does not include farm laborers, foremen, other individuals.)
4. Missouri.
5. Soybeans.

No. 7 in series of articles on how to grow house plants

Growing Bulbs in Pebbles and Water

By FRANK PAYNE

PAPER WHITE NARCISSUS and Chinese Sacred Lilies are easiest of all bulbs to grow in water for house plants. So easy a 10-year-old child could grow them, yet thousands of folks say they cannot have any luck at all. They complain about bulbs not blooming, or that they grow so tall the foliage falls over.

Cause of their troubles are: Either they force them too rapidly or they are kept in too-warm a place. It is wrong to blame the bulbs when it simply isn't their fault.

Take a nice flower bowl or a pretty deep dish. Don't be afraid the pebbles and water will harm your pretty bowl or dish, even tho hand-painted because they will not if you wash the pebbles clean before using them. Buy the largest size bulbs you can get at your seed store or bulb counter. Place bulbs in the bowl or dish and keep them stand-

ing upright by pouring small pebbles or gravel on all sides of bulbs until the bowl is about $\frac{3}{4}$ full of pebbles.

Five or 6 bulbs in an average-size 9-inch bowl are about right. Smaller bowls could only use 3 or 4 bulbs. Pour clean water on the pebbles so there is at least an inch of water in bottom of the dish. Then set in a cool, dark place where there is no danger of freezing. Add some water about once a week to take care of evaporation.

Soon green shoots begin to appear. Now don't get hasty and put in a warm room at that time; that's where you would make a bad mistake. Let the foliage get 3 or 4 inches tall, then bring into a slightly warmer place, but still not in direct sunlight. The right idea is to bring on changes gradually.

When flower buds show nicely, then
(Continued on Page 19)

you can bring into direct sunlight where they will soon burst into bloom. Their perfume is quite noticeable. You can get bulbs in pure white or in yellow. After thru blooming, throw them away as they are of no value. Now see how easily they are to grow! But please remember, do not bring into too-warm a place, no hurrying, please!

FRENCH HYDRANGAEA: Do not get this confused with the hardy outdoor type. French Hydrangea are propagated and grown in greenhouses for the Easter and Mother's Day trade. They come in shades of pink, orchid and if aluminum sulfate is used in the pot, blooms turn a beautiful shade of blue.

If given one as a gift here is how you should grow it from Easter on. They

stay in bloom a long time if given a sunny window and plenty of water. To keep for another year after thru blooming, prune it back severely, sink pot in a partial shady place and give it a bone meal feeding at least once a month. Water when needed in a dry spell.

In fall dig up the pot and place in a cool, airy basement with just enough water to keep it alive. About February 1 bring gradually to the light, then into a sunny window to grow on like any normal house plant. That keeping it in your basement is just to allow it to have a rest period which many plants need. With no rest—no flowers! That's very simple, but it is true just the same. Sometimes I think flowers have more good common sense than a lot of us. Maybe we can take a lesson.



Dwight Hull SAYS . . .

Dairyman Must Tell Consumer About Milk

AN UNPRECEDENTED surplus of milk for this time of year has brought forth numerous ideas and theories explaining why we have it. The fact we have the greatest volume of milk on the market we ever had is undisputed. Reasons given for such volume are all partially correct.

But in terms of human health and human needs, and in terms of economy of food values, do we actually have a surplus? The answer is there are literally millions of people in the world today who need and do not have adequate milk and milk products in their diet. And no small proportion of these millions are right here in our country. So in my judgment the answer to the milk problem is, we do not have a surplus, but what we do have is an extremely inadequate sales program.

We dairymen have more or less grown up with the idea all we had to do was get production and the market would take care of itself. Actually what has happened to us is our markets are being wooed and won by milk substitutes. All the while we go along producing more milk, giving little or no thought to telling the consuming public about the most perfect food ever produced, and for which there is actually no substitute.

Competition on the Market

Many dairymen do not realize there is on the market today a product selling as ice cream that contains no dairy products, or that substitutes are being made for cheese and milk.

Are we as dairymen going to stand by complacently and see our market slip out from under us, as the butter market virtually already has done? If butter was consumed today as it once was there would be no surplus of milk. We tried to take care of that situation by passing laws and thereby made a very grave mistake. We cannot create laws designed to force the consumer to use dairy products. On the other hand we must, if we are to stay in business, tell the consuming public the value of our products. Constantly tell them over and over again as do salesmen for other products. No product can successfully be sold without proper and adequate advertising.

Many dairymen feel this is something out of our line and consequently can do nothing about it. On the contrary, dairymen actually hold the solution to the problem in their hands.

There are 2 essential things dairy-

men must do if dairy products are to have their proper place in the family diet and be America's most popular refreshment.

First, dairymen must awake to the fact our markets are being successfully challenged, and unless we demand that something be done we are likely to find ourselves in the same position as the silkworm—just substituted right out of the picture. We must spend time and effort to get facts so we have a clear picture of what our market situation is, then see others are alerted.

Not Strong as We Thought

For many of us our markets have been and still are very satisfactory. But while we have been quite satisfied, others have been working and our market is not as strong as we thought. It takes public opinion to get things done. So when dairymen demand something be done, it will happen, not before. Organizations to do the job of advertising already are at work, but their hands are pretty well tied until dairymen wake up to the need that a more comprehensive and thoro job must be done.

Second thing dairymen need to do is easiest of the two. It is to agree a check-off on our product be made 12 months a year instead of just 2 months. A cent a pound on butterfat should not be protested by any dairyman, if he fully understood what could be accomplished with this money by thoro advertising—telling every housewife repeatedly the value and actual economy of dairy products in the daily diet.

I am not sure how much money a cent a pound butterfat would bring in, but I feel certain it would provide for an advertising program that would increase sales far in excess of whatever amount it might be. With such a program our surplus would not only disappear, but we would find ourselves hard-put to supply the market.

In the March 21, 1953, issue of *Kansas Farmer* I plan to discuss why milk is an economical food, and suggest things I feel we as dairymen should do to get an adequate advertising program started.

Win Top Prizes

Kansas 4-H Club members placed high at recent National Turkey Federation Show at Dallas, Tex. Of 8 birds in the 4-H division of the dressed turkey show, Kansas won 4 first places, one third place and one fourth place.



Start Them On The Occo BIG 3 SPRING FEEDING PLAN

You'll Get More Hogs to Market . . .

One-third of all pigs die before they are old enough to go to market . . . most of them die because their ration fails to have everything they need. You can be sure your pigs get all the vitamins, minerals, protein, antibiotic, live-cell yeast and other food elements they need when you combine your own grain or grass with the Occo Big 3 Spring Feeding Plan. Remember, MORE OCCO-FED PIGS GO TO MARKET BECAUSE MORE OCCO-FED PIGS LIVE!

You'll Get Your Hogs to Market Earlier . . .

It takes a top-quality protein to produce faster daily gains . . . and, Occo-Trate contains all 12 of the essential amino acids pigs need . . . there is nothing missing to slow up your pigs. Plus this better-balanced protein, Occo-Trate also gives your pigs the important B-Vitamins and an antibiotic. This is the combination of balanced nutrients Experimental Stations have proved the best and cheapest way to get pigs off quicker and keep them going. OCCO-FED HOGS GET TO MARKET SOONER BECAUSE THEY START FASTER.

You'll Get Your Hogs to Market Heavier . . .

By putting your pigs on the Occo Big 3 Spring Feeding Plan from the very start you'll watch them hold their baby fat and start piling on those early gains that cut down feeding time. You'll see them fill out with good lean meat. You'll see the ratio-compounded minerals in Occo Mineral-Vitamin Supplement build strong frames that will carry those fast pounds. You'll see Occo-Lak's live-cell yeast formula turn fewer bushels of grain into more pounds of pork. And, you'll appreciate the cheaper, higher-quality protein supplied by Occo-Trate. OCCO-FED HOGS MARKET HEAVIER BECAUSE THEY GAIN BETTER.

If you're like most farmers you like to tailor-make your spring rations to fit your own pigs. You like to be sure that the ration has every one of the many, many pork-making factors science has proved pigs need. And, above all, you want to build this ration as cheaply as possible.

Then, why don't you join the more than 1,000,000 farmers who take their own grain and grass and build this kind of ration with Occo-Trate . . . Occo Mineral-Vitamin Supplement . . . and Occo-Lak . . . THE OCCO BIG 3 SPRING FEEDING PLAN.

COMING, NEXT ISSUE . . .

Few states, if any, can boast more or better farm mechanics than Kansas. You won't want to miss some of the farm shop ideas to be featured in the March 21 issue of *Kansas Farmer*.

"I Like Kewanee Harrows for three reasons..."

1 Disks Better 2 No Bouncing 3 Trouble-Free

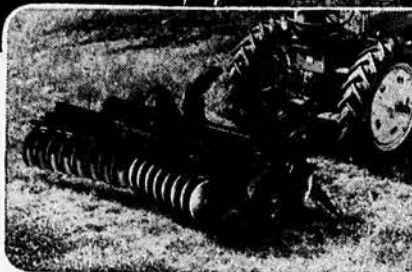


Just a touch on the hydraulic control lever lowers the disks to get level, deep, easy-to-plant seed bed.

More Farms own Kewanee than any other Wheel-Mounted Disk Harrow—Proof of Outstanding Superiority!

More Farms Equipped with Kewanee than any other Wheel-Mounted Disk Harrow—Proof of Outstanding Superiority! Only the Kewanee Wheel-Mounted Disk Harrow offers all three of these advantages. Wheel Mounting makes possible better disking in any type of soil in any field... uniform disking to desired depth... easier transportation... freedom from lifting... easier shedding. Rigid Construction eliminates bouncing—makes all gangs work equally well always, without weights. Makes smooth, level seed beds. Fixed Angle means gangs stay at correct angle for best disking.

Learn all the many advantages you can have only with the Kewanee Wheel-Mounted Disk Harrow. Write for bulletin and ask your dealer for a demonstration on your farm.



One motion raises the disks to lift clear for grass waterways.

Kewanee WELDED TOOTH HARROW

SELF-CLEARING; faster and better. Harrow in top road gear all day. Smooth bars with diamond-shaped welded teeth are self-clearing; no stopping for clearing or replacing lost teeth. Clear gates easily; sections fold flat. Have demonstration on your farm.

*Trade Mark—K M & C Co.

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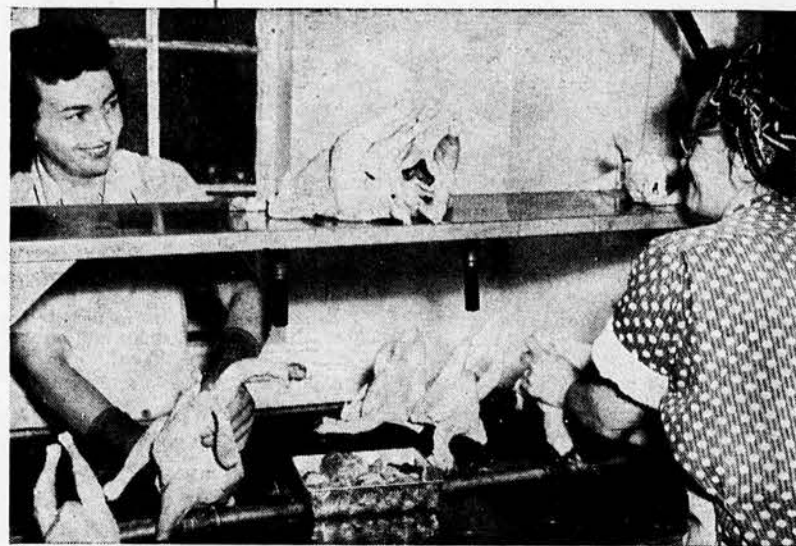
Implement Specialty Company, 9747 Gravois Ave., St. Louis 23, Missouri

Kewanee MACHINERY AND CONVEYOR CO., KEWANEE, ILL.

READY MARKET FOR BROILERS

Experiences of Pete Engbrechts May Be of Help to You

By MIKE BURNS



DRESSING TABLE also designed and built by Mr. Engbrecht has water valves above and below. Birds are set over hose openings and rinsed. Slight pressure against hose opens water valve. Thais Engbrecht, left, manages poultry business, keeps house for husband and daughters, Terry and Tam, and has time for civic activities, too. Marian Selfridge, right.

TRUE, broiler production is confining, there's work to it and it takes "know-how," too. For Pete Engbrecht and his wife, Thais, Rice county, some broiler experiences have been costly, but they are still in the business and have enough faith in broilers they are expanding operations and have a ready market waiting for all they can produce. Certainly they have profited by their experiences and if you are a present or prospective broiler grower there are words of wisdom here for you.

The Engbrecht story really started 25 years ago, when Pete's parents started the Electric Hatchery, in Sterling. Pete was mechanically inclined and not thinking too much about poultry until he and his wife were suddenly left with the hatchery. They decided it best to operate the business themselves. Mrs. Engbrecht, long familiar with farm flocks, decided to start 100 birds a week in batteries in some of the outbuildings to sell live, retail. However, service costs proved prohibitive. Representative of a large retail outlet suggested they grow and dress broilers for his firm. A market was there for all of the quality birds they could turn out. The prospect sounded good. There would be profits of hatcher, producer and processor for them. Dressing birds on the farm is not the same process as dressing for the retail trade. A neighbor butcher showed the Engbrechts how stores want their birds prepared. Then

that first big order—for 19 birds—was dressed with makeshift equipment.

It wasn't so bad after all. Soon a growing crew was dressing 100 a week, then 200, still all grown in batteries. With feed \$60 a ton and a profitable market, soon 500 birds a week were rolling out of batteries and processed in Engbrecht designed and built plant.

Project attracted a friend who began producing broilers for processing and market by Engbrechts. Plant dressed 800 to 1,000 birds a week for the partner who housed each week's kill in separate room of long houses. Engbrechts regularly produced 200 in batteries each week.

Had to Fight Disease

Then discouraging results came that nearly halted the entire project. Blue Comb was first. Next Fowl Pox hit and vaccination of all birds was necessary. Profits were rapidly disappearing. More discouraging, feed costs reached \$100 a ton, a \$40 increase, with birds still marketed at same price.

Birds were not finishing as they should. Losses were running too high. "I was certain we had some potent germ lurking in our houses," Mrs. Engbrecht said. The partner decided to drop out and find more profitable, less confining work. Mr. Engbrecht sought supplementary employment.

Tests at Kansas State College showed (Continued on Page 21)



PETE ENGBRECHT, right, is pleased with meat dealer's comments about fresh broilers being delivered to store same day they were dressed. Retail stores want wings folded back, legs pushed thru skin slit, tail tucked inside to hold gizzard and liver.

KEYSTONE HYBRIDS

for Better Stands
Bigger Yields



KANSAS FARMERS!

Every year, these KEYSTONE hybrids are gaining wider recognition in Kansas, due to consistent high yields in Official Kansas Yield Trials. Check your Yield Trial Bulletin.

KEYSTONE 32 and 44

Early hybrids with extremely big ears, and small, sturdy stalks. Excellent for late planting or early harvest.

KEYSTONE 38

The all-purpose medium-early hybrid, consistently high yielding year in and year out.

KEYSTONE 45

A medium-maturing strain gaining in popularity every year. Has produced top-yield in many trials.

KEYSTONE 222

A full season hybrid, recommended for southern Kansas. A good ensilage corn . . . 2 to 3 ears per stalk . . . small cob . . . large, deep grains.

"It Pays to Plant KEYSTONE Hybrids"

Corneli KEYSTONE Hybrids
Order from your KEYSTONE dealer.

much of the trouble was a severe vitamin deficiency. Feeding program was changed and every chicken on the place received 14 drops of cod-liver oil from Mrs. Engbrecht's eye dropper. "Results were amazing and gratifying," she relates, "and now I have the nerve to try it again."

She is now operating the hatchery on a seasonal basis and planning to follow with a large-scale broiler operation, following thru weekly dressing and marketing, as well. Her husband helps when he is at home, along with processing crew.

Worthwhile profits, altho not so sizable, are still there to be made, she believes, and with less profit in specialized wheat and cattle interests of the region, hatching should be more in demand, too. After their few years of

Is It True?

Is it true snow melts faster around a tree trunk than in open spaces?

After a heavy snowfall, one usually will see melted, open spaces around a tree. This happens because the tree trunk reflects sunlight which melts snow near the tree.

Snow is made up of about nine-tenths air and one-tenth water.

experience, certainly a lot of pitfalls can be avoided. Here is a summary of their advice:

First you need to learn the game. Start with 1,000 birds. If they pay out, enlarge with profits. About 12,000 to 15,000 birds are right for one man full time.

Sanitation and management are 2 most important factors. "We know. We had everything but Newcastle and air sac disease," Mr. Engbrecht said. "Coccidians are a must. Our worst outbreak was in a new building on clean litter. If birds get coccidiosis, we clear it up in 24 hours with sulfa, then feed a tonic to bring up blood count. As soon as we see a droopy bird we post him, find and stop our trouble soon as possible. Trying to bring back a diseased broiler is a losing proposition."

Birds get scratch grain first 3 days, then broiler-growing mash. Whey blocks are put out from first, 50-pound blocks cut in fourths to start. Picking is stopped and feed consumption is cut, so whey pays for itself.

Disinfect Waterers Daily

Some coarse grain is fed in litter. Wood-shaving litter is turned every day. Waterers are washed and disinfected every day. Shavings are screened out of feed daily. Litter is changed with every bunch.

Much processing equipment is home-made, and specially fitted to their operation. Included are killing tank, scalding vat, picker, eviscerating table, and ice chest in which birds are stored—never more than a few hours—before delivery. Some 50,000 birds were processed here last year, peak day ran 1,500 for the 4- and 5-man crew.

By-products are utilized, too. Heads and entrails go to hog feeder. Blood goes into fish bait.

"Broiler consumption could easily be increased a third, once the public was educated to delicacy of fresh chicken, in the market the same day it is dressed," Mrs. Engbrecht stressed. "We need to get away from market offering of only one grade of chicken—fresh or cold-storage. There's a real future for quality broilers in Kansas."

Try Short Cuts!

Granite City Steel Co., Granite City, Ill., offers free an illustrated booklet on plans and directions on barns, machinery and equipment, and sheds. Shows practical building and repair short cuts to save time and money. For a copy write Farm Service Editor, Kansas Farmer, Topeka, Kan.



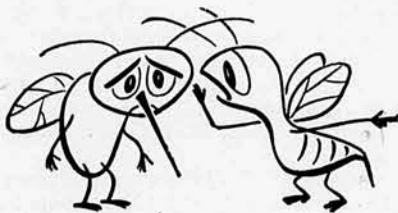
LLOYD BURLINGHAM'S

SKELLY FARM NEWS

An Hour's Work...

The outstanding fact in America's agriculture is the amount of work accomplished per man. No other nation on earth has an equal record. During the past twenty years our farm population decreased seven and a half million. Yet production in 1952 was the greatest ever made. Weather willing, the total harvest this year will be still larger and with even fewer men than in 1952.

That is the biggest news in food production. It is the best, and only, way to maintain agriculture on an equal basis and footing with other American industries. The continuing challenge is to mechanize, make work shortcuts and develop constantly increasing productivity in our field crops and our herds and flocks. All this for the single purpose of increasing our labor effectiveness. What counts is results, in terms of an hour's effort. So long as we can step that up, so long will agriculture maintain its high place among the businesses of America.



Insect Population Worried about 1953 Season

According to scientists, the summer of 1953 holds no threat of serious insect invasions of America's farmlands.

No grasshopper plagues are foreseen, and although Kansas and Oklahoma are still battling against greenbugs, the situation seems well in hand.

The European corn borer still remains a menace in certain sections of the country, notably Kentucky, Illinois, Iowa and Michigan.

Whatever the spring and summer may bring in the way of insect or weed pests, there's a sure way to keep them under control. Check with your Skelly Tank Man on the new 1953 Skelly insecticides and weed killers. For your own peace of mind and to protect your 1953 farm profits, order your Skelly Farm Chemicals now.

Pour on the Molasses, Please!

Cane molasses is being used to cut winter feed costs for cattle and sheep on drought-burned ranges of Southwest Texas. Although the feed value of this sugar by-product is not high—7 or 8 gallons equals a bushel of corn—it does induce livestock to eat roughage that they would otherwise pass up.

Grasses are sprayed with a mixture of one-fourth molasses and three-fourths water. Costs run about \$2 per head per month and are reported to effect a winter feed cost saving as high as 60% over corn feed.

Get Set Now for the Busiest Days of the Year



Spring-Condition Your Farm Machinery with Guaranteed Skelly Lubricants Now!

That wonderful time of awakening is coming again—Spring! And to the farmer who is looking ahead to bigger production and bigger profits, it means that now is the time to check over all of his vital money-making equipment—his farm machinery. Especially your tractor, truck and other motorized equipment!

Drain and change now to fresh Skelly Fortified Tagolene Heavy-Duty Motor Oil. It's a real farm-duty, heavy-duty motor oil that makes every engine deliver full power and last longer! Gives more hours per overhaul because this money-back guaranteed Skelly

motor oil features high detergency plus high viscosity. This means that it has a powerful engine-cleaning action that fights grit and wear... it flows fast from cold starts... and stands up amazingly under high engine temperatures.

Protect all bearings and gears of your farm equipment with Skelly Supreme Multi-Purpose or Tagolene Greases. They have what it takes for severe farm service—and experience proves that these guaranteed Skelly lubricants mean longer life for farm machinery, lower costs for lubrication! Order yours now from your Skelly Tank Man!



Chicken Every Sunday?

According to the U. S. Department of Agriculture, we Americans don't mind being served chicken every Sunday—or almost that often!

Last year, the average citizen ate more than 30 lbs. of tender, flavorful chicken—some 20 lbs. more than he ate 10 years ago. About half of that 30 lbs. were commercial broilers.

Simple economics and science explain the growing popularity of chicken. Pre-war, it was twice the price of beef. Now the price is about the same as beef because growers have pulled down their costs. Where it used to take 12 weeks to grow a 3 lb. broiler on 12 lbs. of feed, today it takes only 9 weeks and 9 lbs. of feed. Progress in breeding, feeding and disease control are paying off!

Big News Happens at Night

Know what's happening all over the globe by making it a habit to listen to Alex Dreier and Skelly's First Network News Analysis of the Day. The time is 7:00 a.m. over your local NBC station. Saturday mornings, hear Lloyd Burlingham—same time, same stations.

Your Skelly Tank Man Has It NOW!



A Brand New Skelly Supreme Motor Oil that

BEATS ALL

in Guaranteed Engine Lubrication

This spring, Skelly Tank Men and Skelly Oil dealers and jobbers are introducing a really revolutionary new kind of motor oil—all-new Skelly Supreme. It is a super-quality, extra high viscosity index heavy-duty motor oil for passenger cars—guaranteed to surpass car manufacturers' specifications for the lubrication of the newest high-compression engines. Guaranteed to stand up better under searing engine heat—yet flows instantly from cold starts! Cleans as it lubricates, prevents sticking of hydraulic valve lifters—the perfect motor oil for your family car! Change to new Skelly Supreme Motor Oil now for wear-free, carefree warm weather motoring!

See or call your Skelly Tank Man Today!



SKELLY OIL COMPANY

P.O. BOX 436, KANSAS CITY, MISSOURI




CORALOX

Means

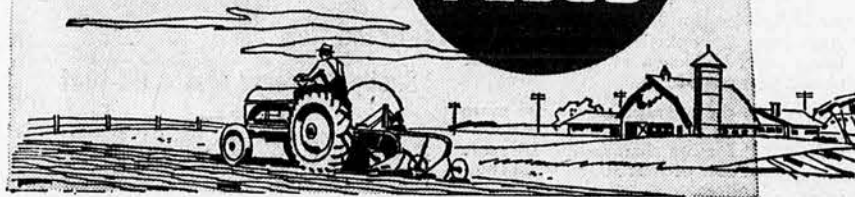
Gas Savings

Gasoline will go farther if your car, truck or tractor is equipped with AC Spark Plugs. ACs convert every fuel charge into useful power, regardless of load or speed. That's because of AC's patented **CORALOX**—which offers all these advantages over previous insulator materials:

- gets hot quicker to burn away oil and wet carbon deposits —stays clean longer
- resists the deposits of oxide coatings from fuels
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- 3 times the mechanical strength
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Only ROPER has these exclusive patented features: A 3" Roller Bearing at point of digging prevents expensive, annoying breakdowns plus a patented locked Telescopic bracket that prevents swing and sway. You also get a 10 year guarantee on all gears! 2 powerful models, 6", 8", 10", 12", 14", 18" or 24" diameter augers, dig up to 42" deep. Fits standard tractors and farm jeeps. **YEAR GUARANTEE** on unit. Write for information.

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POULTRY HELPED FAMILY GET START

Here's Another Case in Which 4-H Experience Came in Mighty Handy

RAISING POULTRY and artificially inseminating dairy cattle makes a full-time occupation for Lee E. Bird, Great Bend. After 10 years in the Air Corps, and with a fourth child on the way, the Birds decided it was time to settle down. Mr. Bird's interest in poultry started with a 4-H project so poultry became the foundation of the Bird farm program when they bought Mrs. Bird's father's 136 acres east of Great Bend 2 years ago in June.

As assistant inseminator in the area, with about 600 breeders signed up, Mr. Bird is out on this work about half the time. He says the 2 major projects tie

A 500-bird-capacity brooder house has been in use on the farm more than 20 years. The brooder is heated with a gas burner and circulating hot-water system built by Mr. Bird's father-in-law, Charles S. Dorshaffer.

A flood in the Arkansas Valley in 1951 slowed progress on the farm. However, a 50-ewe sheep project is next being developed. One oil well on the place, a fair producer, also helps round out the program. When the 4 children, Sue, 8, Beth, 5, Steve, 3, and Stan, 2, are a little older and can help with the program, Mr. Bird plans to build another 800-bird-capacity laying house and eventually get up to an 1,800- or 2,000-bird flock.

Take Care!

Take good care of your farm machinery! For tips on better housing and storage for this important farm job, read "Farm Machinery Housing," a new regional farm bulletin of Midwest experiment stations. For a free copy write Farm Service Editor, *Kansas Farmer*, Topeka.

Ex-Kansan Develops New Chicken

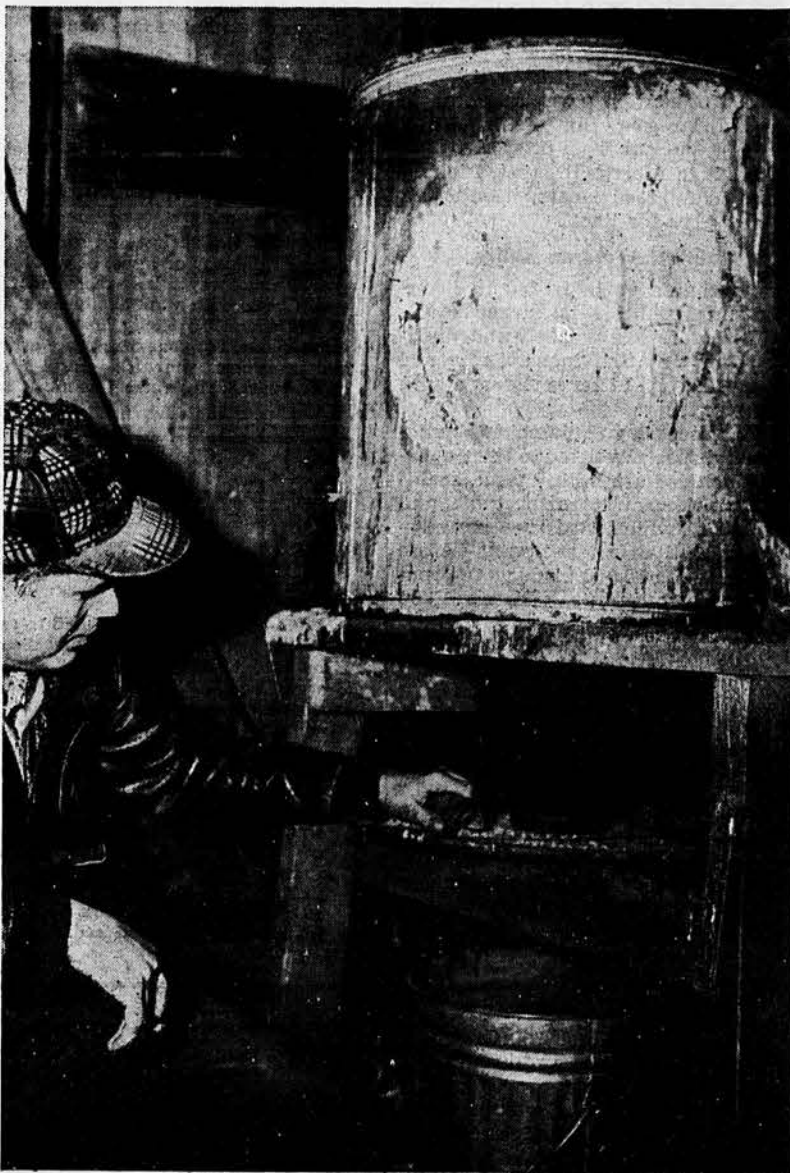
The Purdue Dominant White is a new strain of chicken, developed by a former Kansan, now at Indiana Agricultural Experiment Station, Purdue University, Lafayette, Ind. Dr. Ben Bohren says the new strain produces superior meat, but its greatest value is expected to be in breeding even better chickens.

Cockerels of the new strain will produce 100 per cent white chicks when mated to Barred Rock, New Hampshire or Rhode Island Red hens. Dominant White was developed from the Purdue Broad Bar and 2 strains of White Plymouth Rock.

Using old buildings on the place, a 30- by 90-foot poultry house was built for less than \$600. This plus a house already on the farm provide space for a flock of 800 hens. In the new house, 485 Leghorn hens and 35 Australorp roosters are providing Austra-White hatching eggs.

Make a Mallet

To convert a hammer into a rubber mallet simply slip a crutch tip over the striking head. For repair jobs where parts must be eased into place, the rubber won't mar either wood or metal.



WHEN MR. BIRD has to be away, he fills this 150-pound capacity bin with feed, making it easy for his wife to take care of the birds without lifting heavy feed sacks. Pulling slide from under old radio horn releases feed.



"My machinery dollars pay off four ways with a FARMHAND 'Power-Box'!"



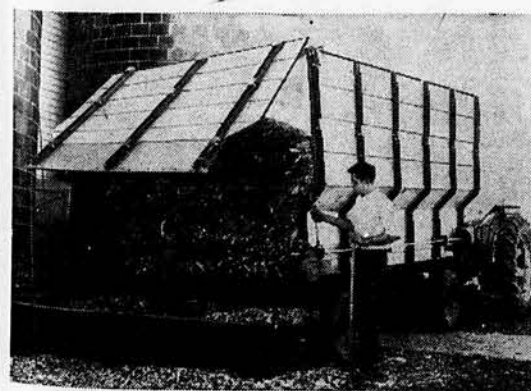
FOUR MACHINES IN ONE—Farmhand's big, 4-in-one "Power-Box" gives you a *four-times* higher return on your machinery investment . . . it's a Spreader, Feeder, Forage Unit and All-Purpose Box. 6-ton model mounts on truck, trailer, or wagon . . . unloads *automatically* from PTO. With Spreader attachment, as shown, the "Power-Box" outworks *four* ordinary spreaders—spreads a 9 to 12 ft. swath with controlled distribution.



NEW 4-TON MODEL—This new, 4-in-one "Power-Box" is narrow enough to be driven through barns, and low enough for easy mechanical or hand loading. With Spreader attachment, above, it spreads a 7 to 9 ft. swath with *even* concentration. *Converts* to 3 other major machines. *Fits any farm!*



NEW STANDARD LOADER—Just 10 minutes to put on or take off of your tractor! This new loader is *low in price*—built for fast, rugged operation. Clean, simple design for years of trouble-free service. Powerful 1-ton lift and 1½-ton "break-away" make quick, easy work of your farm lifting, loading and moving jobs.



FORAGE UNIT—High, flared sides are available for both the 6-ton and 4-ton "Power-Box". Completely *automatic* unloading from PTO . . . one man handles any harvest. Smooth, dependable worm-gear drive . . . rear clutch control.



GRAIN AND CORN-PICKING BOX—Big capacity hauling and fast, automatic unloading of grain, ear corn, silage, other bulk materials. Unloading is under operator's control . . . can be *instantly* started or stopped.



MIXER-FEEDER—Fast, low-cost feeding! "Power-Box" with Mixer-Feeder mixes feed and roughage—*automatically* delivers mixed ration a ton a minute as you drive along. Green Feeder unit available for large-scale green feeding.



TIME TO CHANGE

... to summer grade Farmhand Hydraulic Fluid!

Non-foaming, rust-inhibiting, protects cups, seals and hoses. Use the proper seasonal formula—your hydraulic systems will work better and last longer.



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☐ 4-Ton "Power-Box"


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Hopkins, Minnesota

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The Hanson Brodjet will increase your production profits while it saves your time, money and labor on production cost.

Its low price, ease of maintenance and versatility will **save your money**. It is designed to handle all your spraying jobs simply and efficiently from field and roadside operation to livestock, orchard or spot spraying and building and machinery cleaning and disinfection.

Its broad swaths (up to 54 feet) with excellent chemical distribution, ease of handling and trouble-free performance will **save you much time and labor**. This means fewer trips through the crop with no nozzle clogging or slowing down for swaying booms, rough ground or obstructions. The Hanson Brodjet will go anywhere your tractor will go. Installation can be accomplished in minutes. Send coupon below for free literature about the Hanson Brodjet.



Hanson Chemical Equipment Co.
Box 270, Beloit, Wisconsin

Gentlemen:

Please send me, without obligation, the free folder on the HANSON BRODJET.

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Address _____

City _____

State _____

Saves the day that makes the hay!



Hay cured MEYER WAY is worth more to sell or feed. Stems dry fast as leaves...leaves stay on...hay retains color, protein and up to 300% more carotene (Vitamin A). Cuts and conditions hay at same time. Curing time cut in half—hay can be put up same day it's cut. Danger of sun burning, bleaching, rain spoilage is reduced. Features Exclusive Floating Rotary Pick-up that raises freely over rocks and terraces.

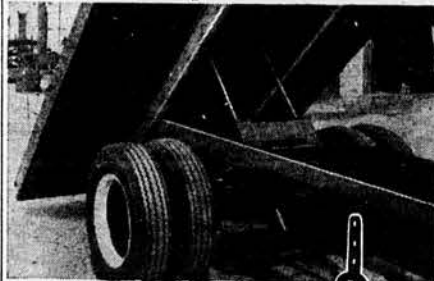
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NEW DEAL

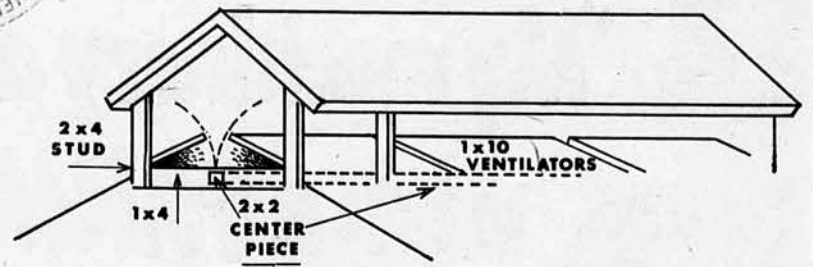
in farm hoists
saves money, works better!



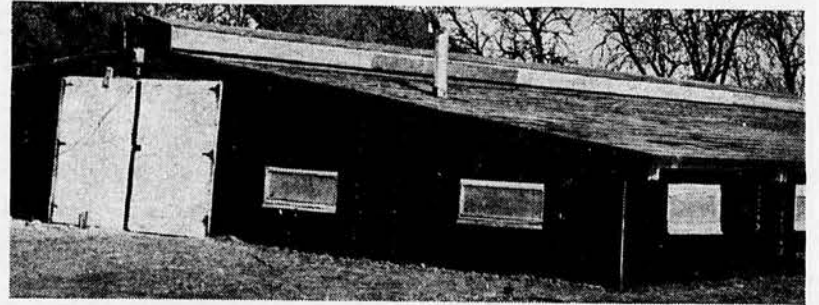
This simple fan-belt-driven pump, with finger-tip dash control, supplies instant hydraulic power for operating National Lift's new 7-ton capacity Jumbo Twin Farm body hoist. No troublesome power take off! No levers, bell cranks, or other gadgets to wear out. Simple direct lift design saves 25% in hoist price... "packaged" steel sub-frame saves additional 15% in installation. And because Jumbo weighs 50% less than other 7-ton hoists, you can haul 1/4 ton more payload... work softer fields where heavier units would bog down. Write for free folder to—National Lift Co., Subsidiary Gar Wood Industries, 36198 Main St., Wayne, Mich.

N-JF-4

Build Broiler Houses at 50 Cents A Square Foot . . . Here Are Details



THIS RIDGE VENTILATOR runs length of broiler house. The 1-by-10's rest on the 2-by-2 when closed. A notched stick can be hooked to each 1-by-10 and the notch slipped over the 1-by-4 to control opening of flaps.



VIEW OF FINISHED B & M Broiler Co., building shows how details of appearance were sacrificed for low cost. Note ventilation structure along ridge line of building. Double door at both ends give access plus added ventilation in summer.

WOULD YOU be interested in a laying or broiler house that could be built at a material cost of about 50 cents a square foot?

If so, you will appreciate a series of broiler houses 50 by 60 feet being built by B & M Broiler Co., Emporia. The company is composed of Elmer Bock, a farmer, and Luoy McDougal, a former county agent.

These men have built 4 houses, using latest information they could get on low-cost construction and ventilation. As a result they claim material costs of about 50 cents a square foot and considerable reduction in labor costs.

Use Pole-Type Construction

The Bock-McDougal broiler house is of pole-type construction with poles set on 10-foot centers both lengthwise and crosswise. The building can be lengthened later in multiples of 10 feet. Stringers are bolted to sides of supporting posts. Rafters are nailed to stringers every 2 feet center and overlap. Roof is sheathed up and down with 1 by 4's on a 1-foot center and covered with a layer of celotex, plus a double thickness of tar paper. Both tar and nails are used to hold the tar paper.

Sides of the building are actually hung on by using celotex panels nailed to 3 horizontal 2 by 6's—one at the top of the posts, one just below window level, and one at ground level. The celotex panels come in 2- by 8-foot sizes and are cut once to 2- by 4-foot size. Three perpendicular panels exactly fit between each window and one horizontal panel fits under each window.

The wall area from 18 inches above ground to 6 inches below ground is made by nailing on 2- by 8-foot panels of Masonite board. Masonite board prevents chickens from picking from within and is said to make the building ratproof.

Inside the building it is 7 feet to rafters at center and 4 feet at sides. The men say the low sidewall is no handicap

to management since all water and feed service are kept out toward the center. The automatic feeder trough is run near the outside walls and hanging feeders are used near the middle of the house.

The only time the operator needs to work to the outside wall is when installing automatic feeder and when cleaning out house. On the credit side, the low outside wall allows a low peak at the center, saves material cost and considerable expense in heating.

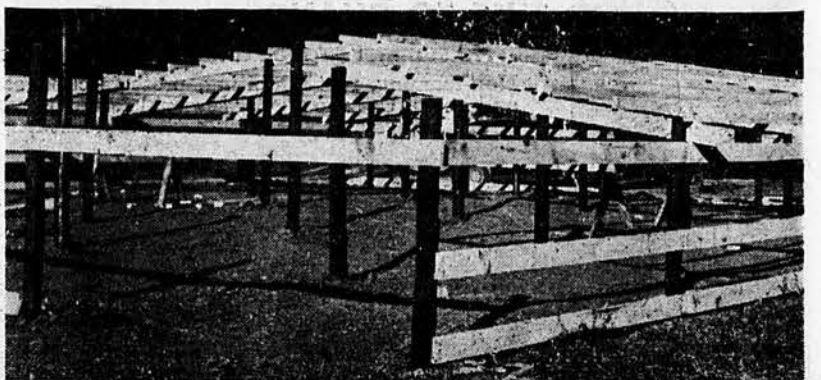
Ventilation is provided by windows that can be opened in from the top for indirect air intake, by double doors at both ends for summer use, and by a ventilating slot running the full length of building at center line. This slot consists of 1 by 10's in 8-foot lengths that can be tilted upward to let air out or to draw air in. The ventilating slot is protected by a small structure built above the roof. This superstructure has an overhanging roof and 1- by 10-foot boards as sidings. These 1 by 10's allow a 2-inch slot at the bottom during winter and can be removed entirely in summer to increase air intake. See pictures and drawing accompanying this story.

The celotex siding of the building proper is to be sprayed with aluminum paint to increase resistance to weathering and to improve appearance. Even the original celotex is coated, however, and will resist considerable moisture and weathering.

Goes to Pakistan

On leave of absence as assistant state 4-H Club leader of Kansas is Mary Elsie Border, to spend from 1 to 2 years in Pakistan setting up a home economics extension program.

Her work will be under U. S. State Department's Point 4 Program. After an orientation period in Washington, D. C., Miss Border will fly to Karachi.



POLE-TYPE construction, with emphasis on low cost rather than looks, enabled B & M Broiler Co., Emporia, to build 4 broiler houses at a material cost of about 50 cents a square foot.

40th Anniversary

NO DOWN PAYMENT

SAVE UP TO 5%

ONLY SALINA SILO OFFERS THESE EXCLUSIVE FEATURES:

- ★ 25% More Door Space
- ★ All Steel Doors in Reinforced Concrete, No Warping or Rotting
- ★ Superior 4-Coat Plaster

IF YOU BUY YOUR SALINA SILO BEFORE APRIL 1ST.

Savings Unequaled: Up to 5% discount if your purchase is made before April 1st, 1953, and erected before July 1st, 1953. (3% discount on early orders...and 2% discount for cash). If you buy on terms, you can save 3%...no down payment and three years to pay.

FREE

Send for your copy of this illustrated Salina Silo Booklet

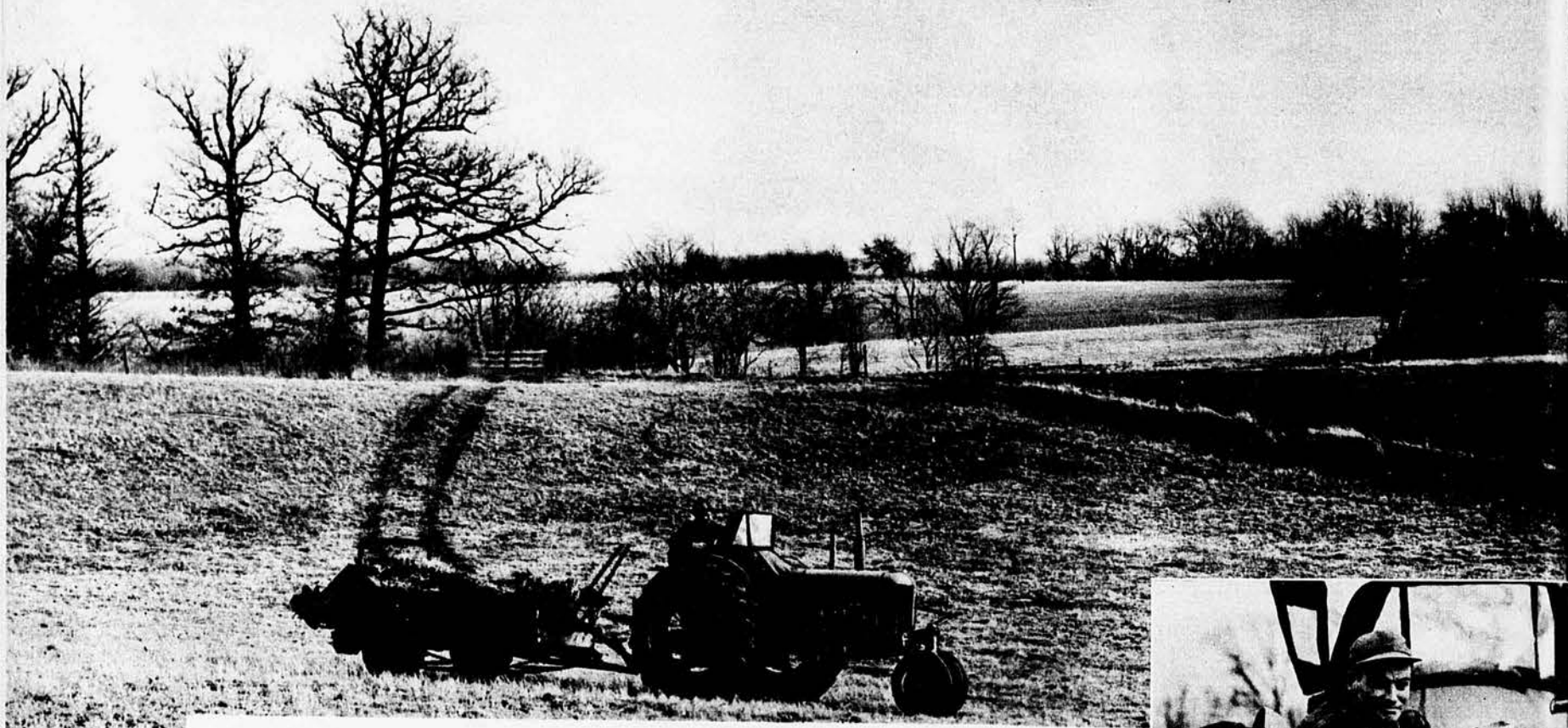
SALINA CONCRETE PRODUCTS, INC.
1104 W. Ash Salina, Kansas



"So that's what he meant when he said,

'More Power to you—'" Like all up-to-date farmers faced with a need for increased output with decreased manpower, Richard Wykoff of New Carlisle, Indiana, is interested in any idea that will help him get more power from his equipment. Recently he got such an idea from his Standard Oil Agent who showed him how he could increase his power by using STANDARD RED CROWN Gasoline and by paying more attention to the temperatures at which he operates his tractors. For the story of how you, too, can profit from this more powerful combination of RED CROWN gas and proper operating temperatures see the next three pages.





Plenty of RED CROWN on hand with its easy starting, fast warm-ups . . . and you're ready to take advantage of every weather break!

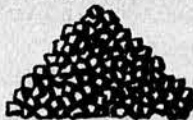
When Spring work-time comes, farmer Dick Wykoff will be all set, with his tractors rarin' to go! During the Winter he had them adjusted and made ready for the tough field work ahead. And he has a full tank of RED CROWN. "There's nothing like RED CROWN," he says, "to get you going fast and keep you going strong. It's got extra power that you can really feel." At right, on the advice of his Standard Oil Agent, he adjusts the shutter on his tractor. He will let the engine warm up until the manifold is hot and will keep the shutter closed until proper operating temperature is reached. This kind of care will cut down cylinder wear, reduce fuel consumption and add to your power as you can learn from the explanation at the bottom of the opposite page. To meet *your* demands for added power RED CROWN is carefully blended, formulated to fit the seasons and tested the year round to give you the most continuously uniform gas quality you can buy.



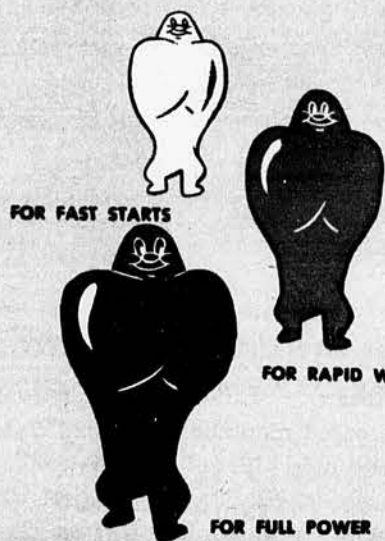
PAPER



KINDLING



COAL



FOR FAST STARTS

FOR RAPID WARMUPS

FOR FULL POWER



Why RED CROWN gives you easy starts and the power you need. Like a skilfully built fire, RED CROWN is made to give you fast-acting, full-power combustion. Fast firing, light-end molecules vaporize in a flash, explode into action at the touch of the spark . . . highly volatile but heavier molecules assure you the rapid warm-ups your tractor needs for top efficiency . . . and RED CROWN's "muscles" come from the all-important heavier molecules that give you the steady, full power you need for profitable farming. It's the one gas that gives you premium volatility at regular price.

RED CROWN's formula is changed with the season . . . made to fit the time and place to help you farm better For frigid northern winters . . . for blistering summers on the prairies, wherever you farm in the Midwest, RED CROWN has a formula made especially to fit the time and place of your operation. That's why RED CROWN users start fast on cold mornings, run smoothly through summer heat without sputtering, excessive evaporation, or vapor lock. And that's why, for all year 'round dependable power, midwest farmers choose RED CROWN 2-to-1.



RED CROWN GASOLINE **KING-SIZE GAS BUY!**



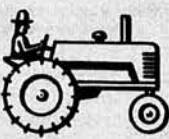
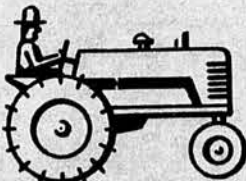
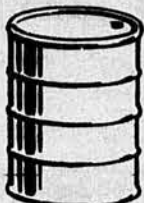

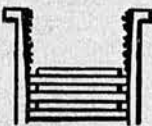

At 30° Below Zero . . . and 115° of Desert Heat

Continuous testing maintains RED CROWN's famous quality

They call it "Operation Icebox"! At Moorhead, Minnesota, "icebox of the Midwest," Standard fleet-tested hundreds of blends of RED CROWN Gasoline in thousands of miles of operation at temperatures down to 30° below zero to bring you a fast-firing formula for Winter use. Then, on the Mojave Desert, Standard engineers put more hundreds of blends through a series of blistering tests at temperatures up to 115° to assure you of smooth Summer power. Day after day, year in and year out, Standard's testing goes on like this to bring you the most continuously uniform gas quality you can buy.

It's easy TO GET MORE POWER . . . with proper operating temperatures and RED CROWN Gasoline

There is an important relationship between engine efficiency and operating temperatures. Engine tests show that if you run your engine at recommended temperatures, it is possible to get these three benefits:

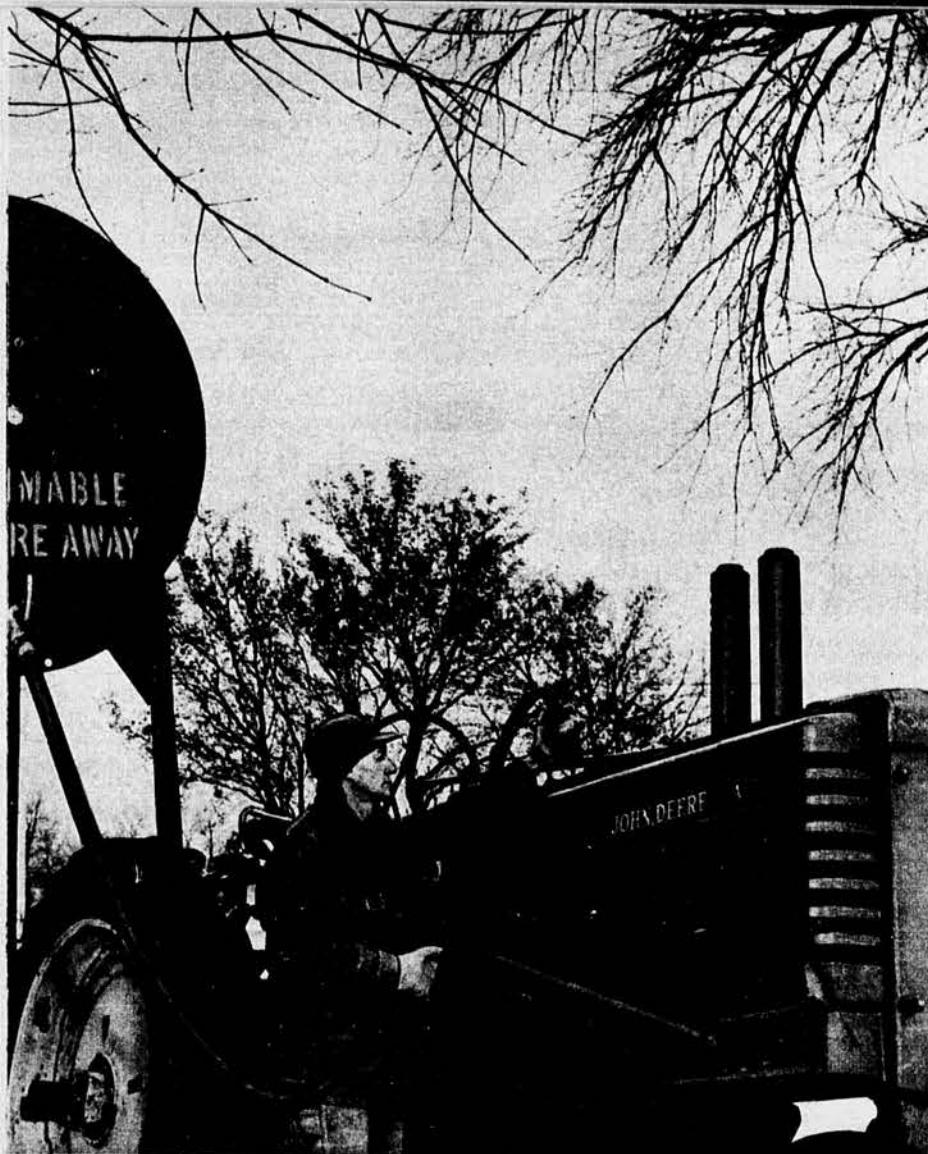
1. You can increase power as much as  **13.4%** 
2. You can reduce fuel consumption as much as  **26.3%** 
3. You can reduce cylinder wear as much as  **90%** 



Here's what proper operating temperatures mean to you

The importance of correct operating temperatures for tractor engines cannot be over-emphasized. This Spring your Standard Oil Agent is specially trained to give you advice on how to increase your power output and cut down repair bills. He carries with him a measuring instrument which in a few minutes can

give you the answer to increasing your tractor efficiency. He'll be glad to show you how it works. And remember your Standard Oil Agent can help most of all by keeping you supplied with fresh stocks of RED CROWN Gasoline—the gasoline that gives you the most continuously uniform high quality you can buy.



OLD FRIEND. Standard Oil has more old-time customer friends than any other petroleum company servicing the farm field... a tribute to the quality of the products and the kind of service the Standard Oil Agent offers. Here is Victor W. Bauer who farms near Aztalan, Wisconsin. He has been using Standard Oil products for 35 years and uses nothing but RED CROWN Gasoline in his tractor and truck. He says, "My equipment has never failed to start rapidly. I stick with RED CROWN because it gives me the dependable power I need."



NEW FRIEND. Each year many farmers decide to change over to the Standard Oil Agent. That way they can get quality products, friendly service, dependable delivery all from one man. One of our newest customers is Owen Barry, above, right, who farms 320 acres west of Irwin, Iowa. Not long ago Mr. Barry got his first fill of 600 gallons of RED CROWN. "I noticed the difference right away," he says, "I haven't had a trace of valve trouble and no extra repair bills since I started using this gas." In this picture he discusses tractor operation with his agent, Ken Thompson.



Archie Fraser, Denver, Colorado, was raised on a large Iowa farm himself and is considered an agricultural authority, able to give his customers special service.



George Sharp, Standard Oil Agent, New Carlisle, Indiana, has serviced Standard Oil farm customers for 28 years, including many father and son combinations.



Milton Holmen, agent at Horace, North Dakota is a member of the school board, president of the P.T.A. and a member of the West Fargo Development Board.



Having once farmed for himself, Robert Herman, Morton, Illinois, is able to give his customers extra help. He is an officer of the local Optimist Club.



Like many other youthful Standard Oil Agents, H. R. Gritzmacher, Sauk Center, Minnesota, is going through a course of specialized training to help him serve better.



Standard Oil Agent John Keuler, who came from a large farm family of 12 children, now has nine of his own. He is a prominent citizen of Chilton, Wisconsin.

You can have a man like this as your partner in power farming!

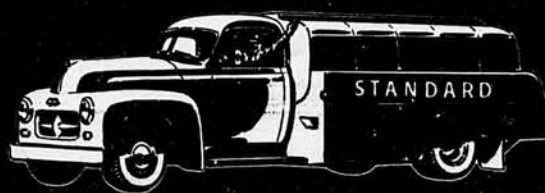
Standard agents and drivers, over 6,000 of them in the Midwest, are trained to help you with your farming problems. Each agent is well-schooled in the care and maintenance of farm machinery, and each is prepared to give you good advice on how to get better and longer-lasting service from all your power equipment. Your Standard Oil Agent offers you

quality products, friendly service, dependable delivery, and he is ready and willing to meet emergencies whenever you need supplies in a hurry. Call your Standard Agent today—there is one near you. Now when everyone needs more help with farm production you'll find that he can save you a lot of time and trouble.

Your partner in more profitable farming!

You get all 3 from 1 man!

- 1 Quality Products
- 2 Friendly Service
- 3 Dependable Delivery



Steady Demand for Quality Eggs Makes Profit for Krasnys

"TODAY IT'S EITHER get in the poultry business or get out. We got in." And the Rudolph Krasnys, Shawnee county, now have a steady demand for quality eggs, a market that was theirs for the developing.

Large institutional users in Topeka, 20 miles away, wanted large, top-grade eggs year around, had lost confidence in average farm flocks which gave undersize, ungraded eggs, then ran out before new pullets began production. Overcoming this lack of confidence was one of the greatest problems Krasnys faced. Marketing poor-quality eggs in the state is hurting Kansas poultry industry more than any one thing, they believe.

Krasnys use 3 hatches, hold over 2-year-old hens to keep up their supply of large eggs, graded even higher than U.S. Standard. Old hens produce only 50 per cent—just enough to cover feed cost—but they assure large eggs until younger birds are in full production. More profits, of course, in summer market, but year-around supply assures premium-paying customer at all times.

At least 2,000 layers are essential for profit, Krasnys find. They figure hauling less than 15 cases of eggs at a time via station wagon to their special market would be unprofitable. Also helpful is 65 to 70 per cent production over 12- to 15-month period.

Start was 7 years ago with 300 birds. Today they have 2,400 hens, plan 3,000

soon. Plan is working so well, son-in-law now farming 560 acres of their land, leaving 80-acre home place for poultry to which both Mr. and Mrs. Krasny now devote their time.

Krasny conversion of horse and sheep barns to poultry plant appeared in earlier *Kansas Farmers*. More buildings have been added including concrete-block, 1,200-pullet-capacity brooder house. Pole-type, 30- by 100-foot house, to cost \$500 with use of old utility poles, native lumber, is going up soon.

Here is Krasny program. Birds start laying at 4½ months, 50 per cent grade-A eggs at 5 months. Eggs are gathered 3 times daily in winter, 4 in summer, candled, automatically cleaned, kept in cool storage until twice-a-week delivery direct to customer refrigerators. Eggs are fresh!

Culling Hook Kept Handy

Hybrid bird, their tests show, gives them harder, heavier producers—96 dozen eggs compared to 28 dozen from matched purebred flock. Culling, vital to high production, is done monthly on entire flock, every day on spot basis. Culling hook is kept handy in each house. Culling is for appearance, characteristics associated with good laying, handling qualities.

Sanitation, Krasnys stress, is keeping them in business. Waterers in brooder and laying houses are scrubbed twice daily, oftener for chicks, if needed. Fresh water and plenty of it is rule. Oil brooders are used to hold down dampness and for larger capacity. They emphasize raising feeders and waterers regularly as chicks grow. Range is plowed and reseeded after each flock of pullets is pastured. This goes for land around houses, too. Plenty of room off range also is stressed.

Clean Litter for Each Batch

Wood shavings or finely ground cobs are used for litter. Sawdust is avoided with chicks. Starting each batch on clean litter is preferred. Only disease problem to bother Krasnys was Newcastle 4 years ago. Vaccination stopped it quickly.

Uniform feeding is stressed. From oats and lespedeza or alfalfa range, birds go to houses as soon as first egg appears, are kept indoors continuously on home mixture—100 pounds each fortified 36 per cent concentrate, ground wheat, ground corn and 50 pounds oats for 18 per cent mash. Booster pellets are fed at noon, corn and oats in evening. Birds clean up mash in afternoon, reduce waste.

Layers are given night lights thru winter, summer lights will be tried to increase feed consumption in cool night hours.

Krasny program takes work, it is confining, but those chickens are coming in pretty handy now. "You definitely have to stay with this business to make money," they add.



PLENTY OF WATER is must for layers. In Krasny house it must be kept from freezing cold winter nights when lights keep birds busy eating. Mr. Krasny solved problem with large pans, held high out of litter by tin sheets formed around pans and bolted to them. Coal-oil lamp placed under pans, keep water warm in cold weather. Floor of this house slopes with ground. Slats hold litter at stairstep levels.



CONVERTED STONE BUILDING makes cozy spot for future layers Mrs. Krasny is feeding. It's clean as a pin in here.

There IS an easier way!



Irrigate with
AMES
 ABC-COUPLED
 Sprinkler Pipe



With Ames Roto-Rain Sprinkler Pipe your lines are set up in a matter of minutes. The ABC Coupler makes the difference. Push, click, it's coupled, then automatically locked and sealed by water pressure. An easy twisting pull and it's apart. No hooks, latches or troublesome gadgets. Saves hours of time and labor.

Your Ames dealer is an irrigation specialist. He will be glad to engineer an efficient system to meet your needs. Get in touch with him today.

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**IRRIGATION
EQUIPMENT**
W.R. AMES COMPANY

150 Hooper Street
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BEST FARM HOISTS in St. Paul history!

Choice of 6
completely new models
— over 50
advanced engineering
improvements!



Send post
card for
FREE FOLDER

Look!

- Stronger all steel welded Uni-flex frame
- Extra payload capacity, less "dead-weight"
- 20% lower installation cost
- Lower mounting height
- Trouble-free hydraulic system
- Finger-tip dash control
- Automatic safety hook
- Better "engineered quality"

Farmers, who have been using St. Paul hoists to unload their trucks for over 40 years, tell us the new St. Paul Dump-its are the greatest yet . . . years ahead of anything else in the field! Exclusive new features! Outstandingly better performance! Available in 6½ to 14-ton capacity units, for all body and chassis lengths, including heavy-duty tandem axle trucks. Get the complete story from your truck dealer, or St. Paul Distributor . . . or send post card for FREE FOLDER, St. Paul Hydraulic Hoist Customer Service Dept. 36113 Main St., Wayne, Mich.

S-DF-5

OUR 41st YEAR

St. Paul

HYDRAULIC

Dump it Hoists

oldest in reputation . . . newest in cost-saving features

Kansas Farm Home and Family

By FLORENCE McKINNEY



BOOKS AND READING are wonderful experiences for little folks. Listening to stories should be among every child's earliest memories.

Orange Juice, Cod-Liver Oil and a Book or Two!

By ZELIA J. FRENCH

RAISING the modern child by the book nowadays seems to include a vast sum of information for modern parents as to nutrition, cleanliness, teeth straightening, and what to do about adenoids and temper tantrums. Not even a footnote is included, however, about striggling a few books thru those first 5 or 6 years when parents exclusively are both guardians and teachers and are completely omnipotent in a child's life.

A footnote might be added as to the value in pre-school years of a collection of colorful, well-chosen books, the child's own books for him to look at, and from which stories are read from time to time. These are guaranteed to aid digestion, lull to gentle slumber and even amuse the tired parent as the last wiggling offspring is tucked into bed.

Chiefly, these pre-school books need to be gaily illustrated, attractively bound and the story written in short sentences, so pages turn rapidly as the book is being read. This fast-turning of pages points out the short attention

span of your child and any tendency you may have for going to sleep while reading.

It is partly the sound of the voice which fascinates a child at first, and sound of the words as much or more than the meaning. If you seem amused and chuckle while reading, your child will be amused and chuckle, too. They like the pleasant lilt of the songs. If there is humor in your voice and you are having fun, the child will listen and be amused along with you. It is as simple as that.

However, children differ, so experiment a little. Perhaps a book with clear-cut, poster-like pictures and direct, factual statements may seem dry and tedious reading to you, but your small-fry may like it best of all. So read it to him. Altho bored to tears, do not let him know. It is not what you read, but that you do read which counts, and that a child handles books, has some of his own and knows at an early age the delight and entertainment to be found in the printed page. Later, the printed page as a source of facts is the chief concern of the

schools. And all that, the new bewildered parents, may thankfully leave to persons more expert.

Doubtless, reading aloud to children may not turn out a 100 per cent crop of book lovers as there are precarious years ahead. But it will certainly help and listening to stories should be among every child's earliest memories.

If you are worried about TV, radio and the movies as greater influences than books, take solace in the fact librarians will tell you when Robin Hood is on at the movies all the copies of the book are checked out of library. Last Christmas when Amahl and the Night Singers was shown on TV, copies of the books were scarce at book stores, as well as libraries. Usually these media tend to advertise and popularize books, not replace them.

As your child grows older, however, and begins to choose books for himself it is well to recognize the fact that while many classics remain timeless and universal in appeal, some of the books you read [Continued on Page 31]

and liked may have lost their attraction and may look a little funny to you now in comparison with the more glorious modern examples of bookmaking. Little Lord Fauntleroy, Graustark and Dotty Dimple were poor fare then and still are. Do not turn some poor librarian's day into a nightmare by saying, "When I was little I read the best book. Do you have it in your library, now?"

Alas, the comics, what about them? They are part of our mores, so better not deny them to your child when every morning you read Pogo, Gasoline Alley and Dick Tracy with your second cup of coffee. I know a little first-grader

Easter Entertainment

Our leaflet, "Easter Eggsibit," will help you with your plans for an Easter party. We suggest an early order since Easter is April 5. Send your order to Home Service Editor, *Kansas Farmer*, Topeka. Enclose 3c for postage.

who stops playing long enough every night to grab the paper when it is delivered, turn thru the pages, then rushes into the house to yell, "Mother, Dick Tracy is just wonderful tonight." She cannot read and scarcely glances at the comic strip. She is just living in the 20th century and taking part.

If you need help as to which comic books are least objectionable, write for "An Evaluated List of Comic Books," from the Committee on Evaluation of Comic Books, Box 1486, Cincinnati 1, Ohio. It lists comics like Dagwood, Donald Duck, Egbert, Mickey Mouse and Pluto under "no objection." Some others are listed under "some objection" and "objectionable."

You can get help on books for children from teachers and librarians and from the many book lists of libraries, publishers and bookstores. The following are but a few:

1. "Too Good to Miss," a list prepared by the Council for Children's Reading, Worcester, Mass.

2. "Children's Books . . . for 85 Cents or Less," prepared by Beatrice Davis Hurley, Bulletin No. 36, Association for Childhood Education International, 1200 Fifteenth Street, NW, Washington 5, D. C.

3. "Counterpane Fun," a Book List for Convalescent Children. The Children's Section, New Jersey Library Association.

The Missouri State Library, Jefferson City, will be glad to send you lists such as these. And here to start you off is a list of books for your child to own and to look at and for you to read aloud.

For the Child Under 3:

Dean's Rag Books. Series 1 includes: *Farm Pets*, *Nursery Land* and *Simple Things*. These are for new babies to chew on and will go right thru the washing machine with the family wash. You iron them, of course. Series 2 includes: *Farm Yard*, *Country Life*, *Toy Parade* and *Let's Play*. These are for older babies, say 8 months. They, too, are impervious to chewing and bathing.

Angus and the Ducks, by Marjorie Flack. Doubleday, 1930.

Box with Red Wheels, by Maude and Miska Petersham. Macmillan, 1949.

Johnny Crow's Garden, by L. L. Brooke. Warne, 1904.

Real Mother Goose, by Blanche F. Wright. Rand McNally.

Tall Book of Mother Goose. Harper, 1942.

Tall Book of Nursery Tales. Harper, 1944.

Tale of Peter Rabbit, by Beatrix Potter. Warne, 1904.

A Child's Good Night Book, by Margaret Wise Brown. Scott, 1943.

Good Night Moon, by Margaret Wise Brown. Harper, 1947.

For the Child 3 to 5:

Mike Mulligan and His Steam Shovel, by Virginia Lee Burton. Houghton, 1939.

Millions of Cats, by Wanda Gag. Coward McCann, 1938.

Mittens, by Clare Turley Newberry. Harper, 1936.

The Story of Babar, by Jean de Brunhoff. Random House, 1933.

Blueberries for Sal, by Robert McCloskey. Viking, 1948.

Little Auto, by Lois Lenshi. Oxford, 1942.

White Snow Bright Snow, by Alvin Tresselt. Lothrop, 1947.

Curious George Takes a Job, by H. A. Rey. Houghton, 1947.

The Smallest Boy in the Class, by Jerrold Beim. Morrow, 1949.

Where's the Bunny, by Ruth Carroll. Oxford, 1950.

Manners Can Be Fun, by Munro Leaf. Lippincott, 1936.

New Books for the Child Up to 5:

Shapès, by Miriam Schlein. Scott, 1952.

Sparky, by Hardie Gramatky. Putnam Sons, 1952.

Look! by Zhenya Gay. Viking, 1952.

Maybelle, the Cable Car, by Virginia Lee Burton. Houghton, 1952.

Double Decker, by Richard Powers. Coward McCann, 1952.

Rags, the Firehouse Dog, by Elizabeth Norton. Winston, 1952.

The Adventures of Walter M. Duff, by Sam Kelly. Lothrop, 1952.

Make Believe Puppy, by Charlotte Steiner. Lothrop, 1952.

Here's An Idea

Combine canned peaches and pears and add sweetened juice of several oranges and lemons. It will seem like fresh fruit.

KNOW YOUR BIRDS . . .

By L. B. CARSON

The Meadowlark

With yellow breast and black cravat . . .

Whoever asks, "What bird is that?"

For meadowlarks range far and near

And sweetly whistle, "Spring is here."

KANSAS, Montana, Nebraska, North Dakota, Oregon, South Dakota and Wyoming have chosen the western meadowlark as their state bird. This popularity is greater than most presidential candidates have enjoyed and speaks well of the high esteem in which this bird is held. But, whether he is the eastern, western or Rio Grande meadowlark, he spends most of his day either singing or searching for grasshoppers, crickets or other insects, which with a few seeds, go to make up his bill of fare.

Dr. Arthur A. Allen, of Cornell University, writes, "The loud, clear whistle of the meadowlark, 'Spring is here,' brings to my mind scenes of my boyhood in moist meadows, with pockets full of rocks and shoes caked with mud. The meadowlark always has said this to me and I suppose always will, long after my children have stopped catching frogs and tracking mud into the kitchen." How many farm boys feel the same?

While eastern birders must be content with the clear high-pitched, whistled notes of the eastern meadowlark referred to by Doctor Allen, many of our readers will be favored by hearing

Do You Have A Question?

We know many of you are interested in birds. Some of you write us asking about birdhouses, how to make feeders and other questions. Now that we have started the series, "Know Your Birds," we are well prepared to answer your questions fully. All questions will be turned over to our expert, L. B. Carson, a birder of some note in the Midwest. Please address all questions to Florence McKinney, Home Editor, *Kansas Farmer*, Topeka.

New Class of Master Homemakers Meet for Annual Get-Together



FIFTY Master Farm Homemakers and members of the home economics faculty at Kansas State College met in Manhattan, February 3, during Farm and Home Week for the annual dinner under the sponsorship of *Kansas*

Farmer. The 6 members of the new class of 1952 are shown above. Seated, left to right, Mrs. John F. Vallentine, Ashland, Clark county; Mrs. Dan Eastman, Matfield Green, Chase county; Mrs. Everett N. McLeod, Marysville, Marshall county.

Standing, left to right, Mrs. Frederick H. Warnken, Hutchinson, Reno county; Mrs. Harold E. Staadt, Ottawa, Franklin county; Mrs. Clarence W. Dickhut, Scott City, Scott county.

At the business meeting of the Master Homemakers, Mrs. Malferd Hendrikson, Atchison county, was re-elected president, Mrs. Grover Poole, Geary county, the new vice-president, Mrs. Frank Crase, Finney county, secretary-treasurer.

Build a Wren House

The house wren is one of the cheeriest bird neighbors you could want. We have a folder on "Build a Wren House" that gives pictures and directions for 2 houses. Send 3c to Farm and Home Service, *Kansas Farmer*, Topeka, Kan.

Make the Choice

It's easy to become so interested in saving time and money we forget to save energy, too. All 3 of these resources are precious.

Is it wise for you to walk to 3 stores hunting for the best bargain in lettuce or a can of tomatoes? Is it wise for you to carry a heavy load of clothes from the basement in order to save time in carrying 2 loads? Think before you act and know your own capacity. Do you get enough satisfaction from the bric-a-brac to pay for the time and energy you spend in dusting it? Does your family really like frosted cake or would a simple fruit dessert suit them as well? These are choices for you to make.

Feed-sack Leaflet Has Arrived for 1953

The "1953 Pattern Service for Sewing with Cotton Bags" has just arrived and we can send these to readers now free of charge. This 23-page booklet includes numbers of suggestions on smart ways to use the sacks, dresses for mother and the girls, something for the boys, new cafe curtains, rugs and several gift ideas.

Address Home Service Editor, *Kansas Farmer*, Topeka, and ask for free booklet, "The 1953 Pattern Service for Sewing with Cotton Bags."



THE MEADOWLARK is a gentleman and will co-operate to make any farm a more cheerful place to live.

a deep, rich melody of 6 or 7 notes with a clear, bubbling quality, with flutelike notes becoming hurried toward the end. For such is the song of the western meadowlark.

Both build nests in dense, grassy or weedy cover which are domed over with little runways leading to them. In such grassy igloos, the young are well-hidden while they wait for the juicy grasshoppers provided by their adoring parents. Like other ground-nesting birds, they are in constant danger from cats, snakes, skunks, weasels or other animals which are not adverse to munching on tender meadowlark fillets.

Meadowlarks are hardy birds and spend winter in much of their nesting range. When heavy snows cover the ground, they can be seen along roadways or other melted areas, where they are searching for any food available. The thoughtful farmer leaves a little food for the birds and why not . . . they worked hard during the previous summer eating enormous quantities of insects which would have reduced crops more than the amount they will need to carry them thru winter. Weed seeds they destroy leave a big balance on the credit side of the ledger.

The meadowlark is a gentleman and will co-operate to make any farm a more cheerful place to live.



RED STAR SPECIAL ACTIVE DRY YEAST DISSOLVES FASTER

30 MINUTE HOT CROSS BUNS

DISSOLVE in large mixing bowl 2 pkgs. RED STAR Special Active Dry Yeast, 1 1/4 cups warm water (110°-115°). ADD 1/4 cup sugar, 1 1/4 tsp. salt, 1 egg, 3 cups sifted all-purpose flour, 1 cup raisins, 1/4 cup cut-up citron, 1 tsp. cinnamon. Beat well by hand or with electric mixer on low or medium speed. BEAT in 2 tbsp. shortening. SPOON batter into well greased muffin pans, filling about 1/2 full. Let rise in warm place until batter has risen to top of muffin pans—25 to 30 minutes. BAKE about 20 minutes, or until golden brown, in moderately hot oven (400° F.). Remove from pans to rack and glaze with thin icing. When cool make a cross on each with plain icing. Makes 18 to 24 buns.

GLAZE: 1/2 cup sifted confectioners' sugar and 4 tsp. warm water.

ICING: 1/2 cup sifted confectioners' sugar, 2 tsp. milk, pinch of salt, 1/8 tsp. vanilla extract.

I LIKE
RED STAR'S
FAST RISING
ACTION



Let this tested recipe introduce you to wonderful Red Star yeast. You'll want to use Red Star in all your recipes. Remember, it keeps fresh for months without refrigeration.



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

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for CRIPPLED CHILDREN
Capper Building : Topeka, Kansas

Stop Taking Harsh Drugs for Constipation

End chronic dosing!
Regain normal regularity
this all-vegetable way!

Taking harsh drugs for constipation can punish you brutally! Their cramps and griping disrupt normal bowel action, make you feel in need of repeated dosing.

When you occasionally feel constipated, get gentle but sure relief. Take Dr. Caldwell's Senna Laxative. It's all-vegetable. No salts, no harsh drugs. Dr. Caldwell's contains an extract of Senna, oldest and one of the finest natural laxatives known to medicine.

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In 3 different strengths: Child's Mild, Regular and Extra Strong Musterole!

You can FEEL it work!



Report on Farm and Home Week Six Hundred Women Attend

FROM the first greeting at the get-acquainted party Monday night to the last farewell at the Thursday afternoon teas, Farm and Home Week, February 2 to 5, at Kansas State College was an enjoyable, interesting and instructive experience for the more than 600 homemakers attending the home economics program.

The many phases of a homemaker's work were represented in topics discussed in morning classes. Quick tricks for dinner and freezer meals attracted capacity audiences, proving that the search for new meal-preparation ideas is universal among planners of the family meals.

Clothing problems, selection, construction and care were studied in classes planned by the department of clothing and textiles. Demonstrations and models added much to increase interest. Interior decoration and crafts as a way to use leisure time held the spotlight in the daily art department classes.

The annual meeting of the Kansas Home Demonstration Council was a part of the Tuesday afternoon session. New officers elected during the meeting were Mrs. Orville Burtis, Manhattan, president; Mrs. James Cubit, Garnett, first vice-president and eastern district director; Mrs. Lawrence House, Goodland, secretary. The council is the state-wide organization of the more than 44,000 home demonstration unit members in Kansas.

KSC Television Coming

Dr. James A. McCain emphasized the importance of educational television in the expansion of adult education in Kansas communities during the Wednesday afternoon program. Another tool in education, books and their place in daily living, was discussed by a panel of professional and lay library leaders. Mrs. J. C. McKinney, of the State Citizens Library Committee, Lyon county, participated on this panel. They told the advantages of good library service to rural Kansas and how to get it.

Dr. Blanche Dow, president of Cottey College, Nevada, Mo., challenged her audience to be an instrument of defense. She spoke of the defense of American homes, youth, institutions,



MRS. ORVILLE BURTIS, Riley county, was elected president of the Kansas Home Demonstration Council. She is a Master Farm Homemaker, class of 1947, and has long taken an active part in affairs of Kansas rural women.

against obstacles which now stand in the path of progress.

Open house at the 3 home management houses, the 2 women's residence halls and the college nursery school proved to be popular features of the program.

An exhibition of work by rural artists, demonstrations of art techniques and a tea honoring Dr. Birger Sandzen, Lindsborg, drew large audiences. Sixty Kansas rural artists entered their pictures in the exhibition.

On Wednesday night at the home talent show, 7 county choruses of home demonstration unit members provided music for a large audience in the college auditorium.

Homemakers attending Farm and Home Week seemed to be back in school, attending classes and taking part in the social events. No grades were given nor diplomas presented, but the wealth of new facts and ideas gathered and new friendships formed during the week made the event a condensed college career.

CHEER UP CHORES!



One-a-day designs are easy to embroider on kitchen towels. They're pretty as shower gifts, too. Fun to embroider and display. Pattern 7311 has 7 transfers, a different one for every day. Each is about 5 by 7 inches.

Pattern is 25 cents. Address Needlework Editor, Kansas Farmer, Topeka.

Contest Opens Now Cash and Books to Be Awarded

CONTEST NOW OPEN! *Kansas Farmer* starts its second story-writing contest. The subject is "Why I Like to Live on a Farm." In a previous contest we received hundreds of entries from seventh and eighth graders on this subject. We read every one and prize winners were announced in the Home Department and their stories printed.

Prizes are listed below as follows:

First award: Winner to receive a personal cash award of \$25, plus \$100 worth of books for his or her school library.

Second award: Winner to receive a personal cash award of \$15, plus \$75 worth of books for his or her school library.

Third award: Winner to receive a personal cash award of \$10, plus \$50 worth of books for his or her school library.

Rules of Contest

1. Subject shall be, "Why I Like to Live on a Farm."
2. Story must not be longer than 500 words.
3. Story must be the student's own composition, not the teacher's and tell of actual farm experiences of the writer.
4. Story must be written plainly or typewritten on 8½- by 11-inch paper, on one side only.
5. Be certain your name, address, and name of school are written at top of each page.
6. Mail your story to Florence McKinney, Home Editor, *Kansas Farmer*, Topeka.
7. Only one entry may be submitted from a school. The teacher will choose the best one.
8. To be eligible for grading by the editorial staff, stories must reach this office not later than April 30.

Eligibility

1. Seventh and eighth grade boys and girls who attend rural schools, under the jurisdiction of the county superintendent or who attend schools in reorganized districts under other superintendents.
2. All those who enter must live on a farm of not less than 3 acres.
3. Pupils from schools who won in the *Kansas Farmer* contest last year are not eligible.

The Recipe Corner

Jellied Tuna Loaf

- 1 tablespoon gelatin
- ¼ cup cold water
- 1 cup tuna fish
- ½ cup chopped green pepper
- 2 tablespoons chopped olives
- ¾ cup cooked salad dressing
- ½ teaspoon salt
- ¼ teaspoon paprika
- 2 teaspoons vinegar
- ½ cup chopped celery
- few grains cayenne pepper

Soak gelatin for 5 minutes and add to hot boiled salad dressing. Cool, add tuna, celery and remaining ingredients. Mold into a loaf and chill in refrigerator. Garnish with thinly sliced stuffed olives and strips of pimiento. Serve in slices.

Fruit Freeze

- 1 cup cooked or canned fruit or 1½ cups fresh fruit
- 24 marshmallows
- 1 cup whipping cream

Heat fruit in the top of double boiler, add marshmallows. Stir until melted but not until marshmallows lose fluffiness. If fruit is sweetened, add 1 teaspoon lemon juice. Chill. When mixture begins to thicken, whip cream (not stiff) and fold into first mixture. Turn into freezing tray of refrigerator and freeze without stirring. Makes about 6 servings.

Chocolate Refrigerator Cake

- 2 squares sweet chocolate
- 2 eggs, beaten separately
- ½ cup sugar
- ½ cup milk
- 1 teaspoon vanilla
- 1 cup nut meats
- vanilla wafers

Combine beaten egg yolks, sugar, milk and melted chocolate. Cook over medium heat until thick, stirring constantly. Fold in stiffly beaten egg whites and nut meats. Line large freezing tray with vanilla wafers. Add mixture and wafers in layers and continue until all are used, ending with wafers. Chill in refrigerator until firm. Serve in slices with whipped cream or vanilla ice cream. Makes about 6 servings.

Honey French Dressing

- ½ cup lemon juice
- ½ cup honey
- ½ cup salad oil
- 1 teaspoon salt

Combine all ingredients in bottle or jar and always shake before using. For

a variation, add a small amount of crumbled Roquefort cheese to part of the dressing, just before using. Suitable for either fruit or tossed green salads.

Fruit French Dressing

- ½ cup salad oil
- ¼ cup lemon juice
- ¼ cup canned plum or cherry juice
- 2 teaspoons sugar
- ½ teaspoon salt
- ½ teaspoon paprika

Measure all ingredients into a bottle or jar. Cover tightly and shake well. Chill several hours. Shake well before using. Makes about 1 cup dressing. Suitable for either a tossed green salad or fruit salad.

Fried Corn

- 2 tablespoons fat
- ½ cup chopped onion
- ½ cup chopped green pepper
- 2½ cups cooked corn, drained
- ½ teaspoon salt
- pepper to taste
- ¼ cup cream

Melt fat in frying pan. Add all other ingredients except cream and cook until the vegetables are somewhat dry and browned. Add cream and heat together. Serve hot.

Yeast Bread Variations

If it has always been your ambition to make a fine symmetrical loaf of bread, cinnamon rolls, orange rolls and caramel pecan rolls you'll find that it's really no trick at all. Here is an especially illustrated little leaflet with simple instructions on how to bake a well-shaped loaf of bread, how to shape varied sweet rolls and Swedish tea ring. It is published by the Pillsbury Mills, Inc.

If you would like the easy-to-follow instructions for making these delicacies just send your order to Home Service Editor, *Kansas Farmer*, Topeka. Enclose 3c for postage.

Income Tax Daze

He grunts and groans,
He sighs and mutters,
Whispers and moans,
No word he utters.
His paper crackles,
His pencil sways,
Computing the tax
He unwillingly pays.

—Ida M. Yoder.

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NOTES FROM THE BEET SUGAR KITCHEN

by Nancy Haven

Easter Bonnets
good enough to eat



A CUPCAKE, A PAPER DOILY,
A FROSTING AND A FLOWER

—PRESTO, your Easter dessert! The recipe gives you an extra egg white to use in making a glamorous frosting.*

Orange Pecan Buttercups

- 1 cup Beet Sugar
- 1 teaspoon grated orange rind
- ½ cup pecan meats
- ½ cup soft margarine or butter
- 1 egg plus 1 yolk
- 2 cups sifted cake flour
- 2 teaspoons baking powder
- ½ teaspoon salt
- ¾ cup orange juice

Spread Beet Sugar, orange rind and pecans on square of waxed paper; crush with rolling pin (sugar will carry orange-pecan flavor through the cakes), place in bowl with margarine or butter, egg and yolk. Beat for 2 min. with electric or rotary beater; add at once sifted dry ingredients and orange juice; beat 1 min. Spoon into well-greased or paper-lined muffin cups. Bake in mod. oven (375°F.) 20 min. or until done. Cool, then frost and decorate. Makes about 15.

Trimming the Bonnets

Spread white boiled or powdered sugar frosting on top and sides of each cupcake; invert on 5-inch, lace-paper doily. Trim with ribbon band and bow made by pressing frosting (tinted with food coloring) through pastry tube or paper cone; place small fresh or artificial flower in bow. Use tiny gumdrops on wooden picks for hatpins. Use for placecards by writing name on front of the paper doily brim.

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SIZES
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SIZES
14½-24½



4810
SIZES
12-20
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9048
SIZES
34-48



4762
SIZES
2-10



4530
SIZES
12-20
40

4810—Smooth, flared sundress with a companion fitted jacket. Favorite 4-gore skirt. Misses' sizes 12 to 20 and 30 to 42. Size 16 dress takes 3¾ yards 35-inch fabric; jacket 1¼ yards.

4762—Child's princess sundress with button-on white collar and bonnet. Children's sizes 2, 4, 6, 8, 10. Size 6 dress takes 1½ yards 35-inch fabric; ¼ yard contrast. Bonnet ½ yard; ½ yard contrast.

9048—Sun-to-city dress and bolero. Simple, slimming lines. Flattering scalloped neckline. Women's sizes 34 to 48. Size 36 outfit takes 5½ yards 35-inch fabric; ½ yard contrast.

4530—Wear it as a jiffy dress, duster, evening wrap, beach coat. Choose material accordingly. Misses' size 12 to 20 and 40. Size 16 takes 4½ yards 35-inch fabric.

Pattern Numbers	Size	Name
		Route
		Town
		State

Patterns are 30 cents each. Add 5 cents for first-class mail service. Address Fashion Editor, Kansas Farmer, Topeka.

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Raising Baby Chicks

Mrs. C. M. Bradshaw, Diagonal, Ia., says: "I have been using Walko Tablets for 3 years with splendid results. I would not think of trying to raise Baby Chicks without them. I also use them for my grown birds with the same satisfaction."

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

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To bring them through the frail, first month period, and to build them into sturdy, meaty, egg producers, it is imperative that they have all the pure calcium carbonate they need.

The kind that is easily assimilated can only be had from pure, clean, chick size crushed Oyster Shell.

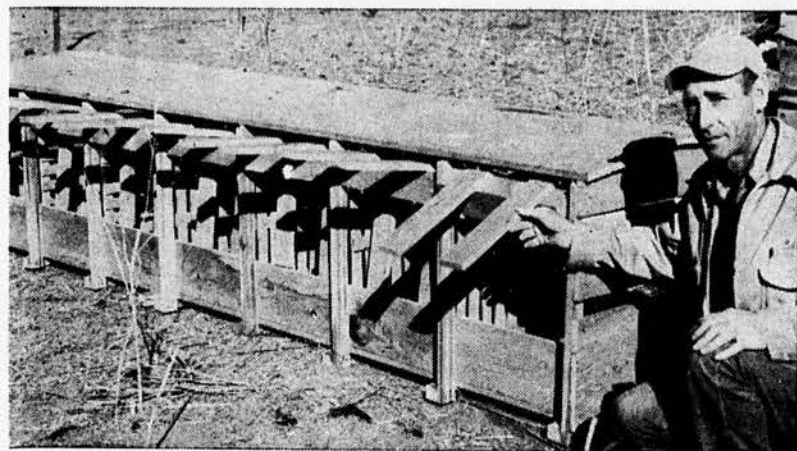
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They must have it to grow and be their best.

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At most good feed dealers

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Tractor Helped Save 9,500 Turkeys When They Were Caught in Storm



BIG SAVING in eggs makes these nests worthwhile investment. Weighted doors to nests, demonstrated here by Mr. Osborne, keep birds from piling up in nests and greatly reduce egg breakage.

STILL VERY FRESH in minds of turkey growers is that ice storm last year which very nearly wiped out huge flocks in the state and was costly to most every grower. Folks from now on will be better prepared with more windbreaks, buildings, to give birds needed protection to discourage their piling up and smothering one another.

The storm caught about 9,500 broad breasted bronze birds on range at Floyd Raymon's turkey farm, Wilson county, but happily he and his co-workers discovered that altho darkness had fallen, birds would follow their tractor around thru the storm rather than piling up for protection. Tractor was kept moving on into the stormy night and birds kept stirring, instead of freezing or piling. In meantime, temporary windbreaks—trailers, boxes, barrels, anything available—were thrown up and birds were led behind windbreaks and finally settled down. Total loss was only 75.

Produced 12,000 Turkeys

More than 12,000 turkeys including 4,000 Beltsville Whites were produced on 60-acre Raymon farm last year. Besides that, a lot of otherwise idle equipment returned a nice profit housing broilers in off winter season. Each turkey brooder house was filled with some 420 broilers for a total of 3,800, finished and marketed in time to get houses ready again for poults in spring.

Sanitation is big factor in Raymon management program, farm manager, Eddie Osborne, says. Well-designed equipment is a factor here. First 3 weeks with poults is critical period. "We get them thru that period, watching feed and water especially, and the rest is easy," Mr. Osborne pointed out. Birds go on clean ground every week—oats, alfalfa or native bluegrass.

Poults get started mash for 7 to 8 weeks, then 20 weeks on grower pellets supplemented with range as they are old enough for it. Corn with pellets,

50 per cent each grain and pellets, finish Bronze birds—toms at 28 weeks for 28-pound average, hens at 15 or 16 pounds in 27 weeks. Whites finish at 3 to 4 pounds. Most of the birds are marketed live to large processors.

Production is geared to major holiday trade. Breeding flock of 600 supplies hatching eggs.

Corn Borers Shift Locations

Corn borers in Kansas have shifted their location, says C. C. Burkhardt, Kansas State College entomologist.

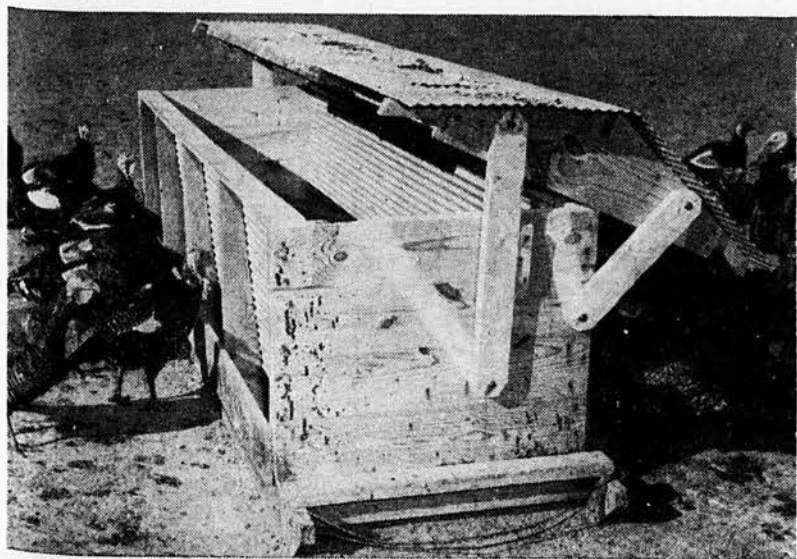
This year, highest number of overwintering insects were found in Leavenworth, Jefferson, Johnson, Douglas, Shawnee and Pottawatomie counties. Previously hard-hit areas were Doniphan, Brown and Atchison counties. Last fall, two thirds of all Kansas counties that produce corn had larger populations of borers than a year earlier.

Last year borers caused an estimated loss of \$832,000 to Kansas corn crop, and if heavy fall populations live they could cause still greater loss to 1953 crop. Fluctuations in winter weather this year make it impossible to make a definite prediction on overwintering numbers.

Treat Oat Seed

Treating oats seed with Ceresan M, New Improved Ceresan or Panogen will give enough more plants to pay for the fungicide and will give smut control. That's the recommendation of Claude King, KSC Extension plant pathologist.

He emphasizes need to follow directions on the package purchased, and to use a good treater—such as a barrel treater, auger loader or cleaned-out custom treater. It is not satisfactory to mix the chemical and oats with a paddle in the drill box.



PORTABLE automatic feeder assures no feed waste. Feed opening is only an inch wide. Cover shown in open position for filling.

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FUNJOL makes drinking water safe by reducing bacterial counts to safe levels. Many poultry raisers report that when FUNJOL is used in the drinking water, their death losses are held to a minimum.

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- **ADJUSTABLE WIDTH** (at time of installation) — fits your stalls to your cows.
- **ELECTRO-GALVANIZING** of all parts before assembly
- **SIMPLIFIED CONSTRUCTION** — entrance and exit gates and others parts interchangeable. Stall assemblies left or right hand.

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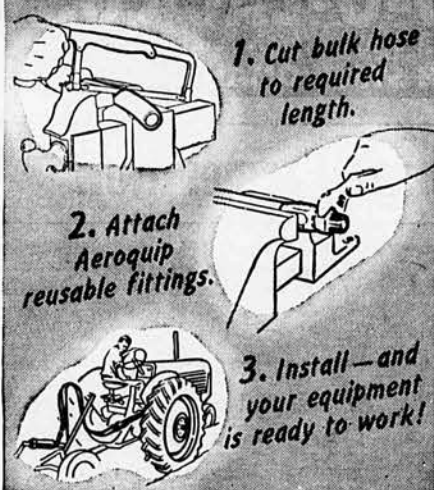
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Legumes Produce Better
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Vocational Agriculture

By HELEN ANKENY



DEMONSTRATIONS on grub control in cattle recently have been put on by Vocational Instructor G. B. Henry and his Future Farmers, at Hugoton. Cattle grub is caused by heel fly which lays eggs on hairs located near heels of cattle. Grubs were treated with insecticide known as rotenone.

Members of Kiowa FFA chapter consigned their first fall boar to Duroc sale at Sabetha, February 5, sponsored by Kansas Duroc Breeders' Association. Boar was "Kiowa Mainliner," grandson of an outstanding boar named Fleetling, which won junior championship, and sold for \$2,700. Kiowa Future Farmers started their gilt ring 5 years ago. They now own 7 females and a boar, all registered Durocs. Herd boar is kept and managed by Bob Talbott and is named "Kiowa Chief." The chapter has extended its offer of sponsoring a gilt to any boy in junior or senior high school, whether or not a chapter member. Allen Starosta is the Vocational Agriculture instructor.

"Until someone invents a substitute for a stomach there always will be a demand for farm products," Bill Bork, farm editor for the Hutchinson News Herald, told members of the Syracuse Future Farmer chapter at their annual parent-son banquet. According to Bork, former county agent, constant increase in world population will be so great, present production methods will be inadequate. More efficient production will make possible a good income for farmers despite possible price declines. Bork cited as an example (which would particularly apply to the area around Syracuse), hybrid sorghum. He predicted that crop will be as great a development as hybrid corn was a few years ago. Future Farmers who can succeed their father on their own farm, or who intend to go into farming, were advised to go to college and major in some agricultural study to learn best possible farm management.

First officers of a new chapter at Ulysses were installed in their offices by members of the Garden City chapter. Installed were Bert Casey, John Ladner, Earl Fort, Joe Garrison, Don Williams and Kenneth Howard. Advisor and instructor is Harold Mast.

Always active in participating in community service, members of the junior Vocational Agriculture class at Liberty Memorial high school contributed most money of any class in school in recent March of Dimes campaign. The 16 boys and their teacher, W. R. Essick, turned in \$68.08.

Several million dollars could be added to the income of Kansas poultry farmers every year, says Jim Petr, former Vocational Agriculture instructor now

with marketing division of the Kansas State Board of Agriculture. He recently spoke to McDonald Vocational Agriculture students. "Kansas ranks near the top among states in egg production," Petr said, "but ranks 45th in the average price farmers receive for eggs." Higher-quality eggs are the answer to increased income, Petr explained. This, he said, could be easily accomplished by increasing emphasis on quality on farm and by processors and retailers making eggs available on an official grade basis.

A move is on foot among Kansas Vocational Agriculture instructors to organize groups of young farmers and farm employees so they may take advanced training in agriculture and shop work. Then they can keep abreast of modern trends in farming and give members a chance to keep in touch with their high school Vocational Agriculture department. Many Vocational Agriculture departments in the United States offered such courses before World War II, but none have been organized since, until recently. Our attention has been called to 2 such groups—at Syracuse by George Starkey, and at Goodland by Maurice Little, Vocational Agriculture instructors. Little said one of the more important classes (one that many young farmers in the area have inquired about) was a course in farm mechanics. The organizations will operate in a similar manner with the Future Farmers but will have members from 18 to 25 years old.

An experiment by Bonner Springs Future Farmers and their instructor, L. L. Van Petten, involving feeding of 3 pigs on synthetic milk has been completed and termed successful by Van Petten. Pigs, owned by Future Farmer Richard Everhard, and taken from the sow when 10 days old, were placed on a diet of a commercial synthetic milk, mixed with water at 3 quarts to 1 pound. Fed the milk until 8 weeks old, pigs were then put on regular feed. They weighed 45 pounds at start of experiment, and when weaned, each had gained about 20 pounds. Fifty pounds of milk were used for the entire feeding program. Van Petten said while cost of the synthetic product is very expensive, it still proves profitable because pigs may be taken from their mother almost immediately, and as a result it will be possible to gain an extra litter of pigs in the course of a year.

Various means of earning money to contribute to the polio fund have been used by Future Farmers in the state. Little River boys donated gross receipts from one basketball game, and Eureka Future Farmers held a hay auction and gave receipts to the polio

(Continued on Page 37)

I WONDER HOW THAT STARTED . . .

"Horselaugh"

This term goes back to the 18th century, if not before that. English authors first used it—to represent a loud, coarse, boisterous laugh, characteristic of some persons. Some folks believe the term got its start from the laughter-like noise frequently made by horses. It became common usage for "horse" to refer to anything large, coarse or unrefined.



ation. Farmers in the county were d to donate bales of hay in any ant.

• • •
something new was tried recently at on to acquaint mothers of students led in Vocational Agriculture with their sons are doing and their cipation in FFA activities. Mrs. ear Brown, wife of the Vocational ulture instructor, entertained the ers at an afternoon tea and exed the nature of work carried on ocational Agriculture. This work recently has been added to the on high school curriculum.

• • •
ate annual high school Vocational ulture judging and farm mechan- ontest will be held this year, April d 28 at Kansas State College, ac- ing to Prof. L. F. Payne, chairman e College Contest committee. This e 30th annual contest.
e 25th annual state meeting of the as Association of Future Farmers merica will be held in connection the contest. The 2 events will

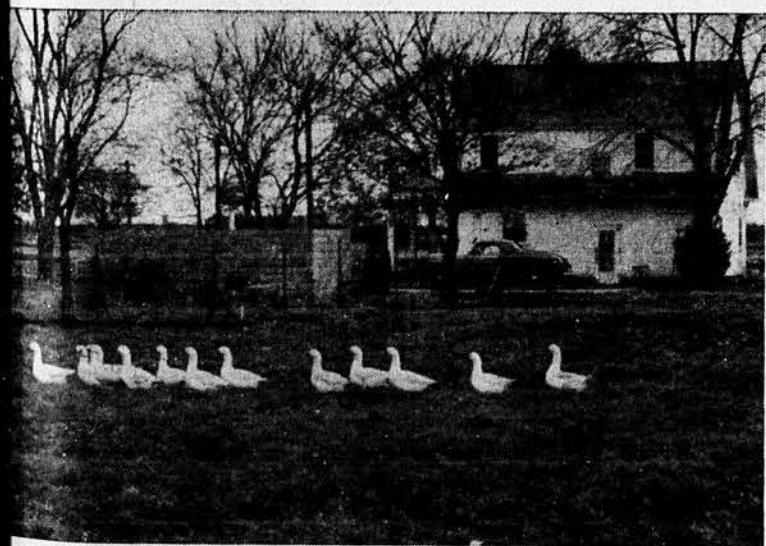
bring about 1,500 Future Farmers and their instructors to the campus. They will come direct from the annual round-up at the KSC experiment station near Hays. A box lunch will be served to contestants. Billy Ray James, Clay Center, state FFA president, will preside at the FFA meetings and the banquet. Other state FFA officers are: Harrell Guard, Beloit, vice-president; Ralph Braun, Council Grove, secretary; Kermit Case, Little River, reporter, and Gary Neilan, St. Francis, treasurer.

• • •
Sahib Bayee, KSC student from Iraq, was a recent speaker at monthly meeting of Concordia Future Farmers, and their instructor, W. A. Rawson. Bayee told about farming methods in his country, also about industries and schools. During his visit he was a guest at a member's farm and learned something of Kansas farm life. Bayee is a senior in agricultural economics at Kansas State College and plans to conduct work in agricultural education upon his return home.

BLUE VALLEY BELLE SPEAKS

Dear Editor: As a resident of the Blue Valley I wish to correct the statement, the Blue River did not flood in 1951, except where the Kaw river backed it on lands," in your February 21 issue. What we have been stressing is that the Blue river was not the main contributor to the 1951 flood. Governor Arn's survey report and the Missouri River Basin Survey commission both bring out this fact, and question practical benefits of Tuttle Creek Dam.—Mrs. Gaylord Johnson, Cleburne.

You Have Tried Raising Geese You'll Agree They Are Hardy



JACKSON GEESE out for a stroll on a rye patch back of family home.

YOU CAN'T hire a more careful, scientific worker for anywhere the money. These faithful work- keep some otherwise uncontrollable s out of field and garden crops." Howard Jackson, of Shawnee y, was talking about her flock of son, Dwight, a commercial green- e operator near Topeka, even uses goslings in the greenhouse, and mato beds outdoors. Feed is no em as goslings will start eating right away, or they can be started ick feed. They thrifly run with in cornfield after harvest, pick-

ing up grain that is missed, do need supplementary grain in bad weather. About only shelter needed is summer shade. A 26-inch hog wire will turn geese. Of course, Mrs. Jackson adds, they can fly if they want to. Geese are hardy creatures, too. Not much worry about disease.

There Is Big Demand

While special hatching equipment is needed if geese are not used, there is a big demand for all the Jacksons could hatch. Dwight found geese worthwhile enough to purchase incubator equip- ment for hatching.

Jacksons sell some dressed birds. Dressing isn't hard, Mrs. Jackson says. She hasn't bothered with picking feath- ers yet.

Big problem, especially being near town and on a highway, is dogs. They have taken many a Jackson goose to its reward, and are such a problem geese can no longer be used in straw- berry bed which is located quite a ways from the house. Mrs. Jackson plans to try the lighter-weight Chinese geese on peony weeding this year.

This issue of Kansas Farmer carries another article on geese, how they fit into farming procedures.

Fertilizers

Get higher crop yields and boost income by using fertilizers. Tips on efficient use, read "Fer- tilizer Recommendations for Kan- sas." It's a 36-page circular of the Kansas Agricultural Experiment Station, Manhattan. Order thru Farm Service Editor, Kansas Farmer, Topeka. No charge. Ask for order Circular 285.

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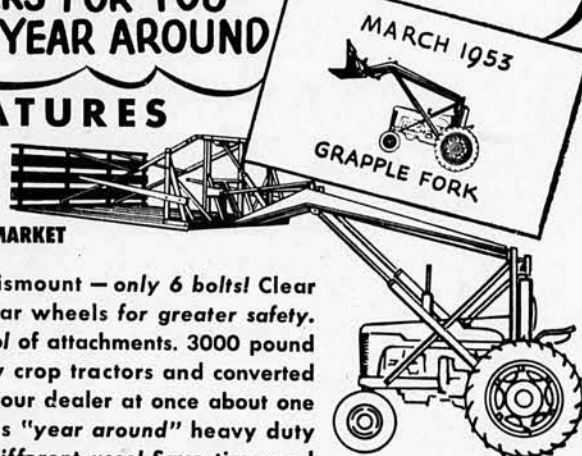


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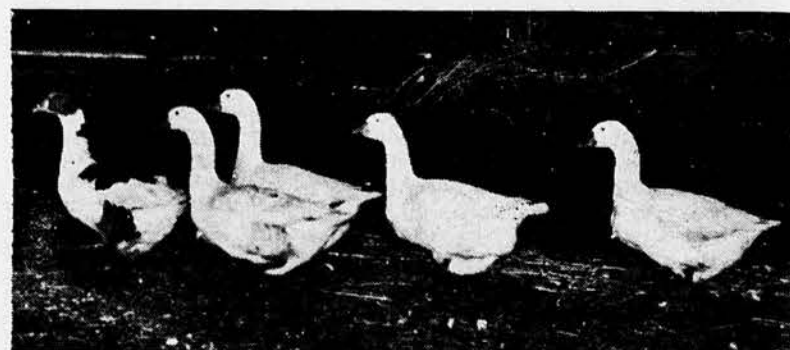
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WRITE FOR INFORMATION

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With 7 Poultry Projects Under Way Nickel Family on Lookout for More



BREEDING GEESSE on the Nickel farm make their nightly trek across the barnyard from pasture for their extra ration of grain.

AT LEAST 7 DIFFERENT poultry projects are going on the John R. Nickel farm, at Hillsboro, and this Marion county family is always on the lookout for something new. Latest addition is guineas, 2 Pearls and 2 White Africans. Reports of large city markets paying 70 cents a pound for them one year started this interest.

Guineas are handled a lot like chickens. The Nickels set their eggs under chickens and they hatch out much like chicken eggs. Birds get about the same feed and are ready to market at about 2 1/4 pounds. The white breeds with white meat are generally preferred on the market, while the Pearls provide dark meat for those who prefer it.

A *Kansas Farmer* story on geese, in the January 6 issue last year, increased the Nickel interest in this phase of poultry production.

Decided to Raise "Green Geese"

They already had a White Embden and a gray goose and a white gander, bought as yearlings that had started to lay before Christmas. They decided to raise 40 goslings as "green geese"—sold at frying size when 10 to 12 weeks old. Setting hens were used to hatch the eggs. When the birds hatched, they were fed wet mash morning and evening. At 10 weeks they weighed 10 1/2 pounds.

The Nickels found them tender eating and mild-flavored. Selling cheaper than spring chickens and with little more waste, the Nickels found a ready market for them.

They tried their weeding ability, too. "Twelve little ones saved our strawberries," Mrs. Nickel said. They love grass, too, she added. Goslings the Nickels produce are sold for weeding.

Little shelter is required for geese. The Nickels use a henhouse, the geese roosting on the floor at night. Geese are grass eaters. Adults are wintered on some grain with roughage when snow covers pastures. Mash is fed at mating season. The rest of the time their diet is mainly grasses. Yearling geese lay about 25 eggs a season, more as they grow older. Better than letting geese set and become broody, reducing their lay, it is better to use setting hens for hatching. A large hen can set 6 eggs. Goose eggs have to be turned and moistened daily, increasing the moistening as hatching time—32 days—nears, the Nickels explained.

Goslings are fed the day after they are hatched. Wet mash and plenty of fresh water are essential from the start. Goslings go after pastures early, too. They should be confined to a limited area tho and not let run free until they are pretty well feathered out.

Sell Premium Birds

In the chicken department, the Nickels have 400 Hampshire hens with Wyandotte cocks, producing Eureka broiler hatching eggs. Hampshire and Cornish Hampshire chicks, hatched in April, are bought for capon production. The local mail carrier does the caponizing at 5 weeks and the birds are ready to sell at 10 and 11 pounds. Capons are premium birds because they are big, with little waste. The Nickels find a 10-pound bird dresses out at 8 1/2 pounds. Last year they marketed 90. The Nickels have tried broilers on a small scale and would raise them if they were equipped for it.

They started raising turkeys in 1950. Last year, they started 50 Beltsville

(Continued on Page 39)



JUDITH ANN NICKEL, 6, likes to watch antics of the duck family which was bought for green duck production. Range shelter in the background housed a turkey project last year.

Whites at a week old. The birds were kept on screen and not ranged for the 6 months until they went to market around Thanksgiving. They are smaller birds but have more tender meat, the Nickels said. For best profits, the Nickels market them at 11 pounds for the hen and 17½ for the tom. There is no difference in price for either sex.

Green duck production, like green geese, looks attractive to the Nickels. The extra tenderness and good flavor of these birds is "beginning to catch on" in Marion county. The Nickels have 2 ducks and a drake now. Children in the family round out the poultry department with a few banties.

The Nickels farm 130 acres. With limited farming area, they needed a concentrated farming program. In addition to poultry, they raise cucumbers and other truck crops, cows for milk, and some beef animals.

Missouri Basin Survey

(Continued from Page 17)

planning to include advisory commissions separate from official State planning commissions; (3) Establishment of State planning agencies to... effect a mutual exchange of information between state resource agencies; (4) State projects to meet needs between large-scale federal projects and the small local projects; (5) Land use ordinances should be enacted to enable states or county governing bodies to enforce land-use regulations; (6) Appraisal and revision of water laws so a central system of state water administration could be established where none now exists and aspects of prior appropriation laws of some states should be corrected.

PART IV (Resource problems): (1) Navigation should have lowest priority in use of water in the Basin; (2) Further intensive study of channel stabilization needs to be made; (3) Flood protection for the Kansas City can't be solved by more and bigger reservoirs; there must be extensive and expensive increases in levee protection; present justification of Tuttle Creek and other similarly situated reservoirs must be seriously questioned; new general plans for flood protection for the Kansas City need to be worked out, and flood control benefits of reservoirs should be appraised before continuing construction of Tuttle Creek Reservoir; (4) Flood control in Salt-Wahoo Basin finds best solution in Corps of Engineers plan, as it includes reservoirs, levees and channel improvement and would provide for more adequate protection than any plan depending on reservoirs only; (5) Flood plain zoning legislation should be enacted to regulate use and occupancy of flood-threatened areas... (6) Main stem structures—those now well under way—should be completed and resultant power developed, but more study given to rest of the program...

PART V (Economic procedures and Practices): (1) Program review—dependent and frequent review of the policies, projects and records of the agencies seems desirable; (2) Cost allocations—further examination is required to determine appropriate allocation of 3 items of construction costs (listed in report); (3) Charges for power and water need to be reviewed, and (4) Improved methods of measuring benefits and costs are needed.

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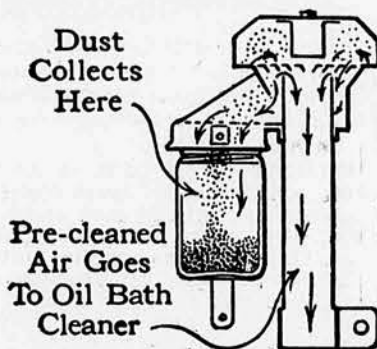
What Do You Think a Dust Storm Does to the Inside Of Your Engine?

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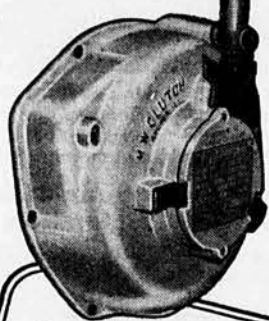
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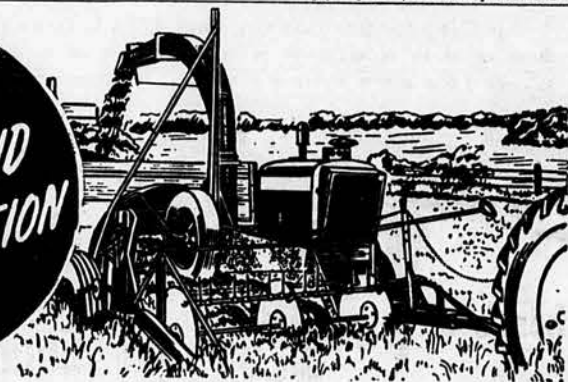
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Follows Plan "So I'll Have a Good Pig Whenever Anyone Wants It"



COUNTY AGENT Clarence Vetter inspects healthy young pigs at Jerry Bechtold's Atchison county pig hatchery. Building in background was horse barn, part of which has been converted into farrowing pens. Jimmie Bechtold is looking over fence.

JERRY BECHTOLD, in Atchison county, followed his great desire and 2 years ago, with 20 sows and a converted horse barn, set up his pig hatchery. "If there wasn't a dime in them, I'd still raise pigs," Mr. Bechtold says, and he comes by his interest in pigs naturally. His father, Emmett Bechtold, at Robinson, has been raising hogs 34 years and the 3 sons are following in dad's footsteps. The elder Bechtold had developed a straight strain and son, Jerry, has bought into that strain and is carrying it on to the next generation.

Mr. Bechtold vaccinates at 5 weeks and sells pigs at 8 weeks. He breeds to have pigs coming all year. Sows farrow twice a year and he tries to have just 5 litters at one time, about one a month. The idea has caught on so well litters are spoken for already that won't be farrowed until next year.

Later on, Mr. Bechtold hopes to have 40 sows, "So I'll have a good pig whenever anyone wants it."

Of one batch of 110 pigs farrowed, Mr. Bechtold has lost only one—that was laid on. His average now is 8.7 pigs weaned per litter. When he was getting started, his record was not as good. At first, he was able to save only 23 pigs from 5 litters, but using infrared heat lamps and improving his farrowing quarters reduced mortality.

Sows Get Good Care

Sows are penned and washed with soap, water and a disinfectant a week before they are due to farrow. Then they are penned so they will be used to their farrowing quarters. Bedding is cleaned once or twice a week as needed. Sows are checked often for signs of farrowing. As soon as they give milk, they are put on a 24-hour watch, and are checked every 3 hours during the day and every 4 hours at night. This close watch continues until pigs are 48 hours old. During cold weather, heat lamps are placed in half sections of 50-gallon barrels in one corner of the farrowing pen. Pigs go under this brooder for warmth and protection. There is no danger of smothering either, because Mr. Bechtold has found pigs work all of the bedding out from under the brooder. Half the time, sows will lay with their belly at the edge of the brooder to keep warm, too, so pigs can nurse without leaving the hover.

Mr. Bechtold uses purebred Duroc and Hampshire boars. Some sows are bred true for gilts and some are crossed for increased vigor desired by some feeders. Best gilts are kept for replacements and to increase the herd. Mr. Bechtold breeds for big, gentle sows with at least 12 teats.

Electric wiring and pens with pig rails and the conversion job was complete in making a horse barn suitable for 6 pens. A regular farrowing house at the other end of the lot is equipped for 7 litters at a time. Mr. Bechtold plans to build several more farrowing pens in the rest of the horse barn which is only partially in use now.

A lot of his success, Mr. Bechtold says, comes from spending enough time with his sows and pigs to nip any troubles as soon as they show up. When sows are farrowing you'll frequently find him in the farrowing house most of the night. He has his regular farrowing house arranged so he can drive his car right in, plug in his radio and coffeemaker and spend the night. He prefers cold weather for farrowing and by being sure bedding is dry avoids any cold-weather troubles.

Big Litters the Rule

Sows are kept as long as they will farrow big litters. Mr. Bechtold has found that usually after 10 litters, a sow's udder will begin to go bad.

Pigs are creep-fed as soon as they learn to eat. After sows are weaned, they are fed oats, corn, protein and mineral by hand once a day and then turned out to hustle for feed in adjoining pastures. Mr. Bechtold says this keeps them active and healthy.

We never wean a runt, the pig hatcheryman stated. They stay and suck until they reach 50 pounds and then we sell them. Weaning a big pig makes a good hog.

Mr. Bechtold, a G.I. trainee, started without a cent and borrowed the money to buy machinery. Now he owns a lot of machinery, a car, and his livestock, including dairy animals. "As we built up a dairy program, we took our cream check, bought another cow and we soon had returns enough to replace the cream check with another cow in our herd besides," Mr. Bechtold explained. The Bechtolds farm 160 acres. They have 2 sons, Jimmie, 4, and Johnnie, 5.

It's New!

Central New Process soybean oil meal is a new product, is described fully in "A Miracle in Meal" booklet published by Central Soya Co., Fort Wayne, Ind. The new meal has greater nutritional value and growth-promoting power. For a copy of the new booklet, write the Farm Service Editor, Kansas Farmer, Topeka, Kan. No charge.

Two Things Make Flock Pay

(Continued from Page 6)

he says, "but chickens like them and feed shakes down well. Feed also stays clean since birds can't get on top the feeding part." Roll-away nests have proved very good here, too. Eggs are clean and gathering them is easy.

Not everything Mr. Miller did turned out right, however. He tried to save money by not installing roosts. He found keeping litter dry was more difficult and lice became troublesome. He now is installing roosts.

It was in marketing, however, he really used imagination. "I just couldn't see selling my eggs at current-receipt prices," he says, "when I was going to so much pains to produce a quality product."

Last November, he approached Marion Collins, store manager in Concordia, and made a deal with him to handle a limited number of his eggs at a premium of 10 cents a dozen. The store would pay that much more for the eggs and pass the increase on to the consumer, just to see whether customers would pay the difference.

Passed All the Tests

Then Mr. Miller got in touch with the marketing division of the State Board of Agriculture and made arrangements to grade, candle and carton eggs at the farm under the state board's Quality Egg Grading program. To do this it was necessary for Mr. Miller to study and pass state tests as a candler and grader. When he successfully passed all his tests, he was given a state permit allowing him to use the new state seal designating his eggs as Kansas grade-A.

Under his marketing program he gathers eggs 3 times a day. Immediately after bringing eggs into the house either Mr. or Mrs. Miller cleans and grades them as to size, and puts them in separate baskets according to weight and size. Eggs then are placed in the basement at 45-degree temperature and 80 per cent humidity.

Eggs are taken to the store 3 times weekly or upon order if supplies are sold out. Last thing before going to town with eggs Mr. Miller candles them and puts them in the carton. Thus, any eggs which deteriorate between time they are gathered and marketing time can be set aside and marketed thru normal channels.

It Takes Some Effort

How has the plan worked? Mr. Collins, manager of the store, is enthusiastic. "We started from scratch and didn't really know whether our customers would buy them," he reports. "It takes some effort to get folks to try them the first time, but after that they seldom will buy anything else. Sales have gone from zero to 3 or more cases a week. When summer comes and quality of current-receipt eggs goes down, we expect more and more customers to switch to the Kansas grade-A eggs brought in by Mr. Miller."

A clerk in the store tells of an interesting incident in his family. One day a carton of Miller eggs got bumped and most of them were cracked so the clerk took them home to his wife, who had been buying current-receipt eggs. "I don't dare bring anything but grade-A eggs home now," he chuckles. So many people began to ask another Concordia groceryman for "those Miller eggs" he finally insisted he be allowed to handle some, too. It wasn't long until the largest cafe in town was using Miller grade-A eggs exclusively.

Mr. Miller doesn't know where it all will lead to but it looks now as if he will have a ready outlet for all eggs his layers can produce at a premium of 8 to 10 cents a dozen.

When he is too busy to do the egg gathering and cleaning Mrs. Miller takes over. So far it has worked out well. We asked Mr. Miller whether it was worth the extra trouble. Here is his reply. "When you are producing something you want people to eat, you ought to go to a little extra trouble to make your product worth eating."



We handle livestock, processed meats With long-experienced care;



They reach you as the tastiest treats Of tip-top Western fare.



Union Pacific's dependable livestock dispatch service—modern cars with smooth-running, high speed wheels—provide top-notch livestock transportation from producer to processing and packing plants.

Livestock is carefully handled along the way, as well as in feeding and fattening areas of the Union Pacific West.

Eleven of the West's largest public market stockyards and one hundred livestock auction markets are available to "U.P." shippers.

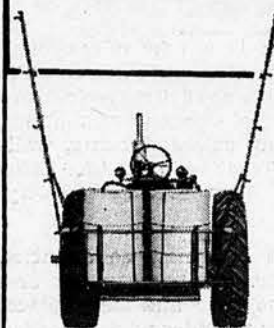
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The railroad itself is a large purchaser of livestock products. Thousands of pounds—steaks, roasts, chops and sausages—are served annually in Union Pacific dining cars.

UNION PACIFIC RAILROAD

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6 Spray Jobs You Can Do at Low Cost with a Jayhawk UNIVERSAL FIELD SPRAYER



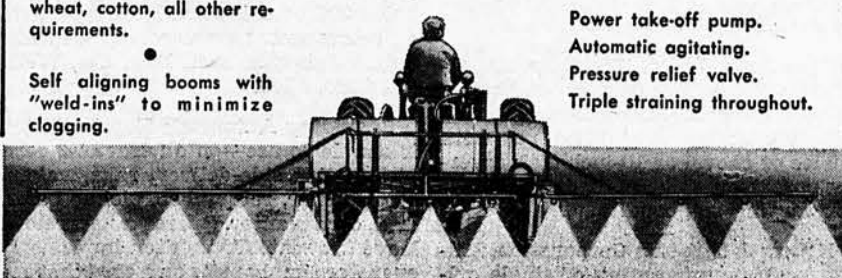
Nozzles and drops for corn, wheat, cotton, all other requirements.

Self aligning booms with "weld-ins" to minimize clogging.

Open fields . . . row crops . . . orchards . . . livestock . . . poultry and hog houses . . . you can spray them all at low cost with a Jayhawk Universal Field Sprayer and hand boom. Available in 4, 6 and 8-row units. Easily mounted on front or rear of tractor. Quickly converted to trailer sprayer with low priced trailer assembly.

Here is a sprayer of reasonable cost that will soon pay for itself in effective insect and weed control and better crop yields. See the Jayhawk Dealer. Write direct for FREE CIRCULAR and low prices.

Power take-off pump.
Automatic agitating.
Pressure relief valve.
Triple straining throughout.



THE WYATT MFG. CO., INC. 1903 GOLDEN ANNIVERSARY Dept. S-31 Salina, Kansas 1953

KIDNEYS MUST REMOVE EXCESS WASTE

Nagging backache, loss of pep and energy, headaches and dizziness may be due to slowdown of kidney function. Doctors say good kidney function is very important to good health. When some everyday condition, such as stress and strain, causes this important function to slow down, many folks suffer nagging backache—feel miserable. Minor bladder irritations due to cold or wrong diet may cause getting up nights or frequent passages.

Don't neglect your kidneys if these conditions bother you. Try Doan's Pills—a mild diuretic. Used successfully by millions for over 50 years. It's amazing how many times Doan's give happy relief from these discomforts—help the 15 miles of kidney tubes and filters flush out waste. Get Doan's Pills today!

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POST HOLE DIGGER

New, one man super-digger digs quick clean holes in any soil. Positive clutch control. Fits all tractors. Hardened steel gears. Full 48" augers in 6", 8" or 12". Replaceable tool steel cutting blades. Hipside adjustment. Patent fence guard. Saves time. Makes money.

WRITE FOR FREE FOLDER TODAY!

WINPOWER

NEWTON, IOWA

WHY YOUR FARMALL NEEDS 9 SPEEDS



An M and W 9 Speed Transmission helps save time in the field... helps you save on gas... **HELPS YOU SAVE WEAR & TEAR ON YOUR FARMALL.** When you install an M and W 9 Speed Transmission in your Farmall, you have a whole new range of speeds... the right speed for the right job. Light draft equipment, especially like rotary hoes, rakes, mowers, wagons, spreaders, sprayers, really pay their way.

M and W Gears add 4 new intermediate field speeds of 6, 7 1/2, 9 and 11 mph., plus an extra pto speed and an extra reverse in addition to your present speeds. Entirely inside transmission case. Fits Farmall M, H, MD, W-4, W-6, and Super M.

For complete information and prices, see your tractor dealer or write Dept. 27DD.



M & W GEAR CO., INC.
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CARLSON POWER DRIVE
OVER 130,000 SOLD
CONVERTS your GROUND-DRIVEN BINDER to Modern, POWER-DRIVEN BINDER or Windrower. Cut a full swath in any grain... up to 40 acres a day. Sensitive clutch protects binder mechanism. Eliminates costly parts replacement. Cut twice the grain, at half the fuel cost. **CARLSON POWER DRIVES** for MOWER and CORN BINDER also available. Get extra safety, economy, power on toughest cutting jobs. Eliminates gears, pinions—transmits power direct from PTO. Saves labor, increases production. For Complete Cutting Satisfaction—BUY CARLSON POWER DRIVES from Your Dealer—or Order Today from **CARLSON & SONS, BERESFORD, S.D.**

THE SOIL MOVER!

HYDRAULIC CARRY ALL SCRAPER



FOR CONSERVATION IRRIGATION... GENERAL FARM WORK AT LESS COST!
MOVE MORE DIRT with the soil mover front pick-up—dump backward without stopping. Uses tractor hydraulic system. There's a **SOIL MOVER** designed for your tractor. From 1 to 3 1/2 cu. yds. capacity—Automatic rear-leveling gate. 7 models to choose from. A proven scraper—built since 1939.

THE SOILEVLER!

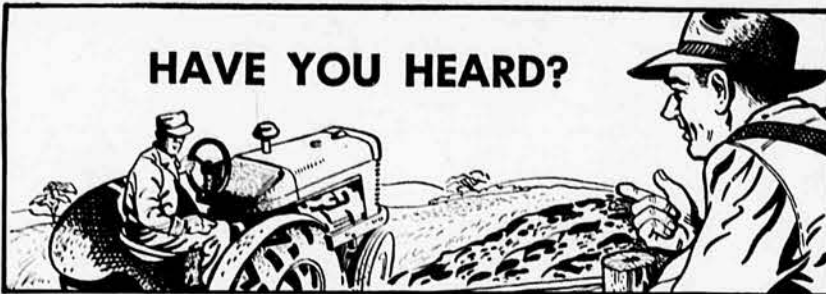
OUT PERFORMS THEM ALL!



All fields need leveling regardless. Eliminate potholes—dead furrows, etc. Adjustable rear axle floats—dry or wet fields. 24 ft. long—8 or 10 ft. bucket hydraulically operated. Pulls in 3rd gear with ordinary farm tractor. Heavy pipe frame—7 years field tested. Buy a real leveler—**THE SOILEVLER**. Write for free literature and name of your dealer. **CONTINENTAL EQUIPMENT CO., COLUMBUS, NEBRASKA**

THE SOIL MOVER CO.
COLUMBUS, NEB.

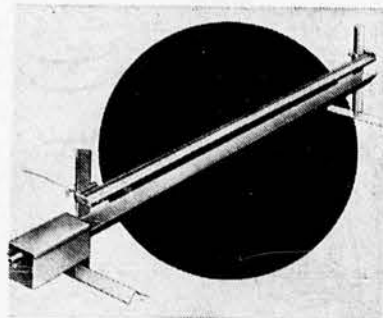
HAVE YOU HEARD?



Notes on New Products and Folks Who Make Them

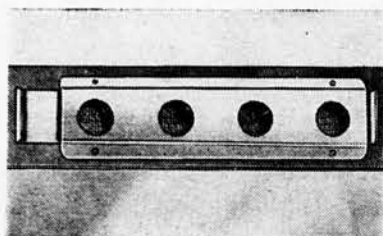
CENTURY SEEDER is a new, all-purpose seeder developed by Century Engineering Corp., Cedar Rapids, Ia. Will fit on most tractors so a disk or spiketooth harrow, rotary hoe or other tool can be trailed to seed and cover in one operation. An 8-foot unit is available this season, other sizes to be offered later. Seeder is power take-off driven.

Lo-Level Waterer for poultry is announced by James Glenn, St. Louis. A product of Kitson Poultry Equipment, Morley, Mich., new automatic waterer is adjustable for all ages of poultry, for



any size poultry house. It carries water low in its 72 inches of trough, is easy to clean, can be used either with hose or pipe.

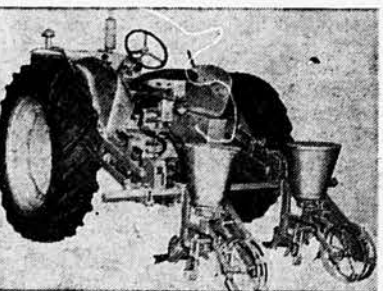
Slide-O-Vent is a new storm window ventilator that operates on "finger tip" control. Regulates amount of air you



want. Screens insects out. Made of aluminum with bronze screening. Easily installed. Newmeyer Products, Dept. 34C, 506 Washington St., Allentown, Pa.

Bob Stone Cordage Co., Charlton, Ia., is national distributor of baler can binder twine, wrapping twine and rope. Recently, Edmund Stone flew from New Orleans to Yucatan to buy sisal from mills there, returned in same day!

New 2-row (and a new 4-row) planters for use with the Sheppard Diesel rear-mounted tool bar are announced. Planting attachment mounted directly



on the lister beam. Fertilizer attachment, with independent ground wheel drive, is available for the 2-row planter. Chisel openers are standard, with choice of shovel or 10-inch disk covers, press on spiketooth drive wheels for varying soil conditions.

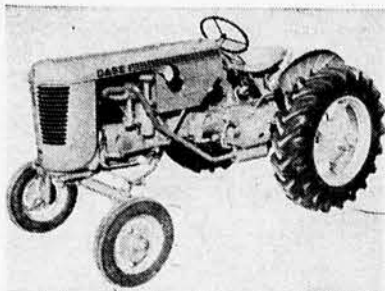
Briggs & Stratton Corporation, Milwaukee (manufacturers of single cylinder, 4-cycle, air-cooled, gasoline engines), recently set a production record,

with 1,000,000 engines in 1952. This is the first time any manufacturer of industrial-type gasoline engines has achieved a record of this kind.

Boot Drier is a heavy gauge aluminum drier—shoes, rubbers, galoshes, boots, moccasins. Can be used over radiator, register, electric, gas or camp stove. Shoes are placed upside down on 2 holders. Kinox Company, Inc., Dept. 6-KF, Rutland, Vt.

Knife Rack and Sharpener has 3 blade-gripping slots on each side of sharpener that holds knives safely and conveniently. A "magic pad" on back of rack holds securely on wood, metal, tile or glass—painted or unpainted. Maryland Mail Order, Box 605, W. Hyattsville, Md.

J. I. Case Co., announces a new low-seat, low-platform, all-purpose tractor in the "VA" series. This 2-plow tractor has many conveniences. Delivering power at 6 points, tractor and implements to match will perform over 100



farm power operations. There's stability for hillside work and a wide range of tread widths for intertilled crops. It has powerful brakes to assist in short turning, shockproof steering, in addition to all advantages of Eagle Hitch Farming.

Abbeon Supply Co., has a new utility scissors that can do many jobs—regular cutting, wire cutter, measure, nail file, screw driver, lid opener, tack hammer, glass cutter. Write 179-21 Jamaica Ave., Jamaica 32, N. Y.

Soapmiser Brush saves those soap scraps—just press scraps and slivers of soap into perforated center of brush. Use in bathtub, kitchen sink, shower, any sink. Small, circular brush is palm-size. Durable. Rustproof. Soapmiser Brush Co., Dept. 47, P. O. Box 1106, Santa Monica, Calif.

Bild-A-Brik is a new educational, construction toy. Pleases children while it teaches. There are 600 real miniature bricks, mortar, windows, doors, shingles, brush, painting colors, flooring, wallpaper and instruction book. Afco Sales Corp., 128 Mallory Ave., Jersey City, N. J.

Feed-Fount is a new combination feeder-waterer. Poultry can eat and drink at same time and same place. Automatically provides what's needed where it's needed most. Feed-Fount holds 225 pounds feed. New type wire agitators assure even flow of feed without clogging. Russell Mfg. Co., Wells St., Caro, Mich.

Spaulding Automatic Tractor Hitch is simple to use—on all tractors, corn picker, disk, side-delivery rake, wagon, culti-packer, rotary hoe, pickup baler, drill, corn planter. Operator never need leave his seat! To unhitch implement, operator simply pulls on a cord that releases positive-locking coupling pin to hitch. Alproco, Inc., Kempton, Ind.

Revolutionary, NEW BALE LOADER



PICKS UP AND LOADS BALES Automatically!
SNOWCO
NOW!
ELIMINATE THE TOUGHEST JOB ON YOUR FARM!

You don't lift a single bale by hand. Snowco Bale Loader picks up bales (any shape, any weight) and drops them into your truck or wagon. Works perfectly on hillsides. No help needed—a "one-man operation"! Completely self-powered. No engine—No PTO needed. Telescoping tow bar places bales anywhere in truck or wagon. Simply drive down row of bales—Loader does all lifting & hoisting.

GET THE FACTS! Send for Free folder today! SEE this amazing Snowco Bale Loader in action at your dealer's. Watch it work! You'll be amazed. You'll be surprised at its low cost, too!

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Increase Pasture Yield Up to 50% With Hol-Dem's Electric Fence System!



KILLS WEEDS ON CONTACT!
Model 45
115 Volt A.C.
Only...\$27.75
Controlled grazing by use of temporary electric fencing lengthens grazing season, increases butterfat percentage, beef weight. Cows graze down pasture quickly and evenly, eat all grass, legumes and weeds instead of tramping down and destroying pasture while walking off fat. Rotating pastures allows grass to recover faster.

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Hol-Dem Fencers hold stock even on the driest ground. Six models to choose from. 5-Year Guarantee. Write for FRED Folder "Pasture Yield."

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Diamond Top
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QUALITY
... in production
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LIBERAL DISCOUNT FOR EARLY ORDERS
McPHERSON CONCRETE PRODUCTS CO.
904 W. Euclid St., McPherson, Kansas

What's Behind Your Baby Chicks?

(Continued from Page 1)



AFTER chicks are hatched, all hatching trays are removed from special hatcher, thoroly scraped, scrubbed and sterilized to prevent disease germs being carried back to next batch of eggs.

So you can understand what really is behind your baby chicks this year, and what the better hatcheries are doing to produce quality, let's visit one.

When hatching eggs first come in from hatchery flocks they are graded and trayed and left in trucks until the following day, when they are placed in incubators and set. They remain in these incubators until the 18th day. During this period incubators are fumigated 3 times to eliminate any chance for disease.

On the 18th day eggs are taken from incubators and moved to a separate sanitary hatcher, where they remain until the 21st day. Interiors of these sanitary hatchers are completely removable. After each hatch all interior trays are removed for scraping, scrubbing and sanitizing before being used again. Every possible precaution is taken to prevent disease.

Graded for Disqualifications

When chicks are removed on the 21st day they are sexed and then graded for size, disqualifications such as crooked toes, crossed beaks, spraddle legs, and off color. They are put into boxes and orders put up for customers.

But, actually, much of the cost and work of producing those quality chicks is done long before the hatching period. During February, March and April, for instance, hatcherymen are making replacement of breeding stock to flock owners. Most hatcheries in Kansas get their replacement breeding stock from outstanding breeding farms in the United States, and are willing to pay a high price to get the best.

Hatcherymen visit their local flock owners when the breeding stock chicks are 8 to 12 weeks old. At this time the better cockerels are selected. Many hatcherymen also worm and vaccinate hatchery flocks at this time.

To insure quality the hatcheryman keeps an eye on the developing flocks and helps the flock owner keep them in best health possible.

When fall comes and pullets reach an egg-production level of 35 per cent on up, flocks are worked by the hatcheryman. Pullets are selected for production qualities and for standard disqualifications. They also are blood-tested for pullorum disease. If the hatchery is operating under a national plan, all approved breeding pullets are leg-banded.

Many of the better hatcheries in Kan-

sas now are following a multiple-testing and selecting procedure. Every 30 to 60 days each hatchery supply flock is retested and reselected.

After all this flock work is done, the flock owner brings in hatching eggs. Most hatcheries in Kansas supply chicks to a relatively small local area. This means they know many of their customers personally, and that you also have a chance to know them and their operating methods. Because their territory is limited they are eager to keep you as a satisfied customer and will do everything possible to give you honest value and good service.

Hatcheries will be paying about 10 cents a dozen more this year for hatching eggs. Along with other rising costs, this means hatcheries will have to increase efficiency to stay in business.

One serious hatchery problem is the need for efficient extra help for about 5 months of the year. To get and keep good men when needed, hatcheries must develop side lines that can utilize year-around help. About 10 Kansas hatcheries now produce broilers on a year-around basis.

Competition Is Keen

Ten years ago there were more than 400 hatcheries in Kansas. Now there are about 225 or 230. Each year will show the number dropping by 10 or 15. Competition among those remaining is getting keener, and this competition is forcing higher efficiency of operation and better quality of chicks in the effort to survive.

Those hatcheries now in business are bigger and better. They are offering more service both to hatchery flocks and average farm flocks. Almost every poultryman needs occasional help or advice with his flock and generally turns to his local hatcheryman.

The entire poultry industry in Kansas is undergoing changes, too. Professor Loyal F. Payne, head of Kansas State College poultry husbandry department, sums them up as follows:

"It now appears Kansas will export less of her poultry products and consume more than in the past. That more people will specialize in production of high-quality market eggs by keeping 500 or more layers. It looks as if the low-quality farm egg which comes from flocks of 100 birds is on the way out.

"Great improvement in marketing facilities of the last few years will continue and good eggs will be sold on standard grades for a premium. More than 9,500 producers in Kansas sold eggs on a grade basis to 117 produce houses the past year. Of this number, 4,564 producers sold eggs on U. S. Government grades. It also was reported 45 poultry houses bought poultry on a grade basis in 1951-52."

Barrow Show Next

Second Annual Barrow Show will be held at Wichita Union Stock Yards, Friday, March 27. It is sponsored by Union Stock Yards Company, Wichita Livestock Exchange, Wichita Chamber of Commerce, Cudahy Packing Co., and the Swine Breed Associations.

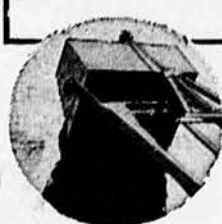
This show combines the competitive features of a barrow show, open and 4-H divisions, and educational features of marketing, grading and type. Of special interest is the grading school conducted by Extension specialists and representatives of the Cudahy Company.

Ribbons, cash awards and breed special awards comprise the premium list.

COMING, MARCH 21 . . .

What's a "Country Cousin"? In sports, the term is used to describe an opponent who is easily beaten. But, if you live out in Harper county and are a member of the "Country Cousins," you are never beaten. In the next issue of **Kansas Farmer** read how these Harper county "Country Cousins" have helped make their community a better place in which to live.

New Hydraulic Scoop Control



for the **Jayhawk** HYDRAULIC LOADER



Order yours now. A simple hydraulic cylinder attachment that gives complete scoop control for many extra kinds of work at little cost. Available for all Jayhawk Hydraulic Loaders. Write for details.

New Hydraulic Grapple Fork Attachment

Big eight tined fork with either single or double acting auxiliary hydraulic cylinder. Complete with 18-foot Hay Crane. Makes it easy for one man to stack, break out stacks, load wagons, feed livestock. Ideal for handling bales, many other jobs. You'll want this labor saver, too.



Costs Half as Much to Stack Your Hay

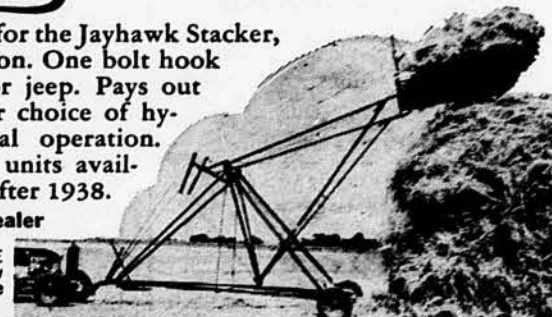
with the **Jayhawk** STACKER • WAGON LOADER • SWEEP

And it costs a lot less for the Jayhawk Stacker, too. One man operation. One bolt hook up to tractor, truck or jeep. Pays out on 10-acre field. Your choice of hydraulic or mechanical operation. Hydraulic conversion units available for all Jayhawks after 1938.

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Write direct for FREE LITERATURE. Low prices on all these Jayhawk products.



THE WYATT MFG. CO., INC. 1903 GOLDEN ANNIVERSARY 1939 5th St. Salina, Kansas 1953

HI-PRESSURE ORCHARD OR CATTLE SPRAYER

COMPLETE WITH HYPRO NI-RESIST PUMP, 350 LBS. PRESSURE. PTO MOUNTED ON YOUR TRACTOR OR JEEP.

- 45-ft. Hi-Pressure Hose.
- Approved Suction Strainer.
- Adjustable Spray Nozzle.
- Gauge, Valve, Fittings.

Heavy duty equipment, designed for modern methods of livestock spraying. COMPLETE as illustrated... \$89.50

Shipped Prepaid, Except C. O. D., Order From
Power-Aire Sales Co., 939 N. 24th, Omaha 2, Nebr.
 Send Check With Order. Money Back Guaranteed.

POST HOLE DIGGER

The modern "Rapidigger" for Ford, Ferguson tractors. One man hydraulic control. No gears, drive shaft. Time saved pays for this low cost digger. Guaranteed performer. Write for FREE folder.

RAPIDIGGER, 4605 Lowell, Lincoln, Nebr.

SAVE \$100 LIME • SEED • FERTILIZER BROADCASTER

Factory-to-you plan saves real money. Sturdy, low-cost construction. Special hitch. No-Clog agitator. Gives exact spreading—50 lbs. to 8,000 lbs. per acre. Sows 3 to 14 ft. broadcast guarantee. 16,000 working in 28 states.

MOORE MANUFACTURING CO. SWEDENBORO, N.J.

For Easier, Faster, Safer MOWING

KOSCH SIDE MOWER

Cut hay and grass the modern way. A Kosch Mower converts your tractor into the most compact, efficient mowing machine ever invented. Much safer because cutter bar is in front where you can see it at all times. More maneuverable for cutting square, clean corners. Mounts in minutes. Simple design with fewer parts. Easily maintained with IH cutter bar parts. Available for Farmall H, M, A, C, Super A, C, and M, Reg. & F-20; John Deere A & B; Allis Chalmers WC & WD; Ford, Ford-Ferguson, Ferguson, and other tractors. See your dealer or write for literature (specify make and model of tractor). **DEALER INQUIRIES INVITED—few choice dealerships open.**



See Where You're Going—See Where You're Mowing

KOSCH MANUFACTURING CO. Dept. 53 Columbus, Nebr.

JOHNSON
Right Angle **DRIVE**

Assures—
Water FOR IRRIGATION at LOW COST



CONNECTS TO YOUR TRACTOR Or Stationary Engine

The Johnson Right Angle Gear Drive provides efficient, positive power transmission from engine to pump shaft. Spiral bevel gears and precision ball bearings, properly mounted and automatically lubricated, eliminate inefficient quarter turn belting. Easily installed, readily available in sizes and types to suit your requirements, a Johnson Drive assures continuous, dependable irrigation.

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- EFFICIENT
- DEPENDABLE
- ALWAYS ON DUTY
- MODERN DESIGN
- FULLY ENCLOSED
- LOW COST OPERATION
- OPERATES IN ALL WEATHER

Thousands in successful use on farms all over the United States, producing water for thirsty crops. Get the facts. Ask your local Pump or Engine Manufacturer's agent for details.

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You need a Pieck Vacuum Blower, an unloading device for anyone who owns a field-chopper, for hay, wet or dry, and for corn silage.

Eliminate pump systems, shoveling, raking, and choked feed tables. Can be used with ordinary farm wagon or truck.

ONE-MAN OPERATION—JUST DRIVE UNDER TUBE AND UNLOAD. Write for details.

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What Kind of Man Is Ezra Benson, New Secretary of Agriculture?

By CLIF STRATTON, Kansas Farmer's National Affairs Editor

WASHINGTON, D. C.—What kind of man is this Ezra Taft Benson, new Secretary of Agriculture? The Secretary who told cattlemen at St. Paul last month:

"It (administration farm policy) has been influenced to some extent, no doubt, by an old-fashioned philosophy that it is impossible to help people permanently by doing for them what they could and should do for themselves. It is a philosophy that believes in the supreme worth of the individual as a free man, as a child of God, that believes in the dignity of labor and the conviction you cannot build character by taking away man's initiative and independence.

"And, further, that character is the one thing we make in this world and take with us into the next. For what doth it profit a man if we gain the whole world and lose our own souls?"

"I believe the people who live on farms and in rural communities of America also accept this homely philosophy. I am most anxious that they will always accept it as a dynamic part of their lives. It must be so if this choice land of America is to endure.

"This, then, in part at least, will be the broad policy which will guide us. I hope you will concur wholeheartedly."

"Easiest Money I Ever Made"

This man, Benson, told a reporter, explaining why he believes government advance reports on size of crops needed to meet market demands can be at least a partial substitute for use of support prices and controls that must go with support prices eventually:

"The easiest money I ever made in farming I made raising hogs. I studied the outlook reports, indicating how many pigs farmers were feeding and how many would be needed in future marketing periods. In years when it looked like pork would find a ready market, I bought young pigs and fed them up to 250 pounds or so. In years when it looked like there might be a pork surplus, I took on other projects."

During the 4 or 5 years Ezra Benson was in Washington as executive secretary of the National Council of Farmer Cooperatives, he made a favorable impression upon those of us who came into contact with him. The man is genuine. His religion is genuine; an integral part of his make-up. He is not given to making up his mind in a hurry. Nor does one gather he will un-



Ezra Taft Benson

make it in a hurry, either. He has a good mind, which he uses. He has personal integrity, and this observer is convinced, political integrity, also.

He is an individualist, yes. But he believes in co-operatives—but would be opposed to the co-operatives having a monopoly in business. Some of the stories written about him have rather overplayed the "rugged individualism" angle.

"Individual freedom and citizenship responsibility depend upon the principle of helping the individual help himself," Benson said in discussing relations between man and his Government—not the relationship between Government and its man. "It is possible thru individual and group action to solve many problems and achieve objectives locally with a minimum of federal assistance and control.

"It is generally agreed there is danger in undue concentration of power in the Federal Government." Again—

"The most important method of promoting the long-time welfare of farm people and the Nation is the support of adequate programs of research and education in the production, processing, marketing, and utilization of farm products and in problems of rural living." However—

"The development of modern agriculture, which has made possible these great achievements, has placed the family farm in a vulnerable economic

(Continued on Page 45)

WILL BE TOUGH ON INSECTS



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H. L. "HY" BRYAN and CARL L. ROBESON will head up and manage a new Agricultural Chemical and Farm Spraying Equipment Department of the R. L. Faubion Company, Kansas City, Mo. Office and show rooms are located at 2525 Southwest Boulevard and manufacturing plant is at 28th & Wyoming Streets. A complete line of farm agricultural chemicals is offered, carried in stock for immediate shipment to users. Also offered is complete line of power and hand spraying equipment and materials and machinery for applying materials for control of weeds and brush. Insects and pest control field will be completely covered.



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Western Land Roller Co., Dept. 134
Hastings, Nebraska—Manufacturers

position because farm prices and income rise and fall more rapidly than farm costs.

"Hence, the guarding of farm levels of living requires a program of storage and price supports to help assure stability of income. These supports should be designed not only to serve the welfare of farmers, but also—in the widest interest—to prevent disaster to the farm producing plan and the national food supply.

"Price supports should provide insurance against disaster to the farm producing plant and help to stabilize national food supplies.

"But price supports which tend to prevent production shifts toward a balanced supply in terms of demand, and which encourage uneconomic production and result in continuing heavy surpluses and subsidies, should be avoided.

"Our efforts should be to re-orient our present national programs and policies so these will contribute to the development of a prosperous and productive agriculture within our free enterprise system."

Law Will Be Obeyed

About present and future price support policies—

"Price support laws will be carried out faithfully in every respect. There are mandatory price supports at 90 per cent of parity on the so-called basic commodities for 1953 and 1954. Other laws provide for supports on other farm products. While enforcing these laws, there will be formulated long-term programs which will more fully and effectively accomplish our over-all objectives."

But Secretary Benson doesn't want the farmer to lose economic freedom—and does not believe that is necessary. Mull this one over: "The principles of economic freedom are applicable to farm problems. We seek a minimum of restrictions on farm production and marketing to permit the maximum of dependence on free market prices as the best guides to production and consumption.

"Farmers should not be placed in a position of working for government bounty rather than producing for a free market. However, the ability to avoid restrictions on agriculture de-

pends in part on the willingness of other economic groups to adopt policies that permit flexible and dynamic adjustments."

Apostle Ezra Taft Benson, great-grandfather of the Secretary, went to the Salt Lake Valley with Brigham Young. The present Ezra is one of 11 children. He attended a Mormon school, Oneida State Academy, at Preston, Idaho, then Utah State Agricultural College, at Logan. His college education was interrupted by a missionary tour in the British Isles in 1921. After this church tour, in 1923 he attended Brigham Young University, was graduated with honors in 1926. Awarded a scholarship at Iowa State, got a master's degree in agricultural economics; took graduate work at the University of California 10 years later, after county agent experience, Extension marketing specialist at the University of Idaho.

His success in helping organize the Idaho Cooperative Council led to his appointment as executive secretary of the National Council of Cooperatives, headquarters in Washington. He resigned that job in 1944 when elected one of the Council of Twelve of the Church of Jesus Christ of Latter-Day Saints, Mormon. He is married. The Bensons have 6 children, 2 sons and 4 daughters, ages from 8 to 24 years.

Probably the best-equipped man, all things considered, who has taken the job of Secretary of Agriculture, Mr. Benson is going to have plenty of troubles, not the least of which will be a bunch of leftover bureaucrats in the Department.

Change County Agents

Several changes have been made in county Extension agents in Kansas.

In Riley county, new home demonstration agent is Mrs. Lorice Ann Woner, recent Kansas State College graduate. Mrs. Dorothy Brinkman, retiring HDA, is moving to Kansas City.

In Greenwood county, Charles Aufdengarten, who has been agent at Eureka, has resigned and will be succeeded by Clarence Hollingsworth, former Bourbon county agent. Mr. Aufdengarten graduated from KSC in 1950, and Mr. Hollingsworth in 1931.

Set Honey Yield

Honey production in Kansas for 1952 is estimated at 1,650,000 pounds. According to the State Board of Agriculture, this compares with 1951 figures of 1,680,000 pounds. Yields per colony in 1952 averaged 30 pounds, and 28 pounds in 1951. There are about 55,000 colonies of bees in Kansas, decline of 5,000 in last 2 years, both poor seasons for honey production.

Did You Know?

Did you know English walnut shells are used in rubber manufacturing plants?

Finely ground shells serve as an efficient cleaner for aluminum tire molds, replacing sand or other materials likely to pit the aluminum. The Firestone Tire and Rubber Company, Akron, O., buys 125,000 pounds of ground shells each year for mold cleaning.

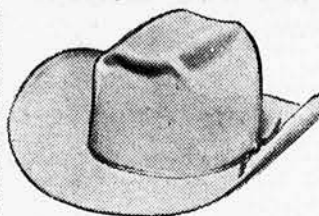
Too Cold to Snow?

Can it ever get too cold to snow? If moisture content of the air is inappreciable and temperature is 40 to 50 degrees below zero, then it can get "too cold to snow."

When water vapor in the air freezes, snow forms. If temperature drops to zero or lower, there is little vapor in the air. If there is enough moisture in the atmosphere it can never get too cold to snow.

More than one third of the surface of the earth never receives any snow! In the U. S. in 1908, at Giant Forest, California, 60 inches of snow fell in one day! This is the record for heaviest one-day snow-fall.

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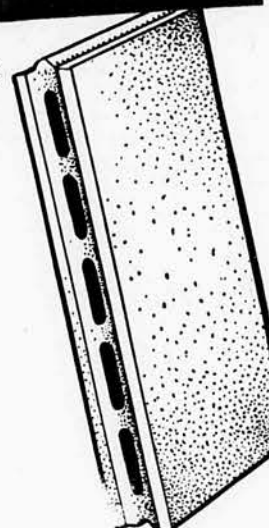
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Kentucky 31 Fescue Seed, certified and uncertified. Original strain. Priced right. Order now. H. T. Waldrop, Murray, Ky.

Interesting, Profitable garden seed specialties. circulars. Postal Seed Co., Council Grove, Kan.

Kansas Grown Kentucky Fescue 31. Purity 99.30%. Germination 93%. 30c pound. Henry Fiese, Box 704, Topeka, Kan.

Pure St. Charles Seed Corn. For Silo, \$3.00 bushel. Free samples. L. C. Feigley, Enterprise, Kan.

Ranger Alfalfa Seed, registered grade, total germination 93. Clarence Davenport, Callaway, Nebr.

Watermelon Seed, certified Oklahoma Black Diamond, pound \$1.75. Swinney's Improved Black Diamond as good as any certified seed, pound \$1.50 plus postage. C. C. Swinney, Rush Springs, Okla.

Buy Hardest, Highest Yielding new Creeping Hybrid Rhizoma Alfalfa, wilt resistant Ranger and Cossack Alfalfa; improved pasture and hay grasses; new James Hulless Oats direct from Sam Bober & Sons, Box 751 H, Rapid City, S. D.

New! 300 Bu. Certified Mo. 0-205 oats. Strain C14988. Germination 97% \$3.75 bushel. Korean Lespedeza \$22.00. Ky. 31 Fescue, Germination 96% \$25.00 per 100. Columbia Seed Co., Box 572, Columbia, Mo.

Plant the New Varieties LESPEDeza SEED For Greater Profits BIG FREE CATALOG

And Price List of the new improved varieties, Fescues, Clovers, Alfalfas, Trefoli, Grasses, Vegetable seeds and Berry Plants. Send for your copy today.

Make More Money in 1953

ARCHIAS' SEEDS

Box 70 Sedalia, Mo.

● KANSAS CERTIFIED SEEDS

Kansas CERTIFIED SEED

Buying seed is an important matter. For dependable results and genuine satisfaction always buy seed certified by the Kansas Crop Improvement Assn.

Send for Free Booklet

The Kansas Crop Improvement Assn.
Manhattan, Kansas

CERTIFIED

CHEROKEE OATS

Bulk \$2.00, in print sacks \$2.10
WILLIS COLMAN, Lawrence, Kan.

Kan. Certified Hybrids

K1639 K2234 sold out
K1784 US523W sold out
K1859 (rounds only) K1585 sold out
Martin Milo seed, not certified.
CARL BILLMAN, Holton, Kansas

MIDLAND MILO

Certified Seed — 3,000 bags for sale by
WARD W. SULLIVAN & SON
P. O. Box 603, Hays, Kansas

CERTIFIED SUMAC CANE

Germination 96%, purity 99.50%, \$16.50 per cwt. Martin Milo germination 92%, purity 99.50%, \$7.00 per cwt. Write for delivered prices.
DEAN LIBBY, Smith Center, Kansas

Westland Milo

Certified Seed. 95% Germination,
1.36% Inert, 98.64% Purity.

DUESING BROS.

Spearsville, Kansas

Kansas Certified Midland Milo. Germination 95%. Purity 99.70%. \$8.00 cwt. Cyril Habiger, Bavaria, Kan.

Ellis Sorgo—Yellow tag. Purity 99.20%, germination 92%. Clarence Brown, Collyer, Kan.

Nemaha Oats, \$2.25 per bushel. Agronomy Dept. Kansas State College, Manhattan, Kan.

For Sale — Certified Ellis Sorgo, purity 99.92% germination 76%. Sacked, recleaned \$10 per cwt. Niles C. Endsley, Alton, Kan.

Certified Achenbach Brome grass seed. Forty cents pound. Earl Collins, Florence, Kan.

Certified Buffalo Alfalfa Seed for sale. Want to buy pie melon seed. Box 146, Johnson, Kan.

Certified CHEROKEE OATS

Purity 98.39%. Germination 96%
bagged. Write

Hutchinson, Kansas, Box 303 or Call
2-5974 Ralph I. Brown

BUFFALO

ALFALFA SEED

High germination, clean.

T. N. GARNER, Portis, Kansas

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America's Leading Auctioneers Teach You. Students sell actual sales. Largest school in world. 20 years in operation. Don't be misled. Term soon. Free catalog. Write
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● FILMS AND PRINTS

12 Jumbos, 25c; 16 Jumbos, 35c; from any size roll or negatives, with this ad. Skrudland 1, Lake Geneva, Wisc.

Eight-Exposure Roll printed one of each 25c; two each 35c; one each Jumbo 35c. Star Photo, Denver, Colo.

Two Prints each good negatives, 8-exposure, 35c; 12-exposure, 50c; 16-exposure, 65c; reprints, 4c. Mayfair Photo Service, Box 617-B, Toledo, O.

Reprints size as negative 3c and oversize prints 4c. 6- or 8-exposure roll developed and printed one each 25c or two each for 35c. Three 5x7 enlargements for 50c. Four 8x10 for \$1.00. Your favorite photo copied and 10 billfold pictures 65c.

Summers Studio, Unionville, Mo.

20 DECKLEDGE REPRINTS 50c
6-8 exposure roll developed and printed 25c; 12-exposure, 30c; Jumbo prints, 4c each.

Box 1068-KF Topeka, Kan.

● BEES AND SUPPLIES

FOR SALE

214 Colonies Honeybees for
POLLINATION AND HONEY

Strictly High Grade Apiary.
60 to 70 Pounds Honey Per Colony.
1952 Queens, No Disease, Painted.

HEALTH CERTIFICATE

It is an established fact that honeybees can treble and quadruple your legume seed crops. I invite inquiry and inspection.

VISITORS WELCOME

BRYAN R. SMITH

R. F. D. No. 2, Box 96, Liberty, Missouri

FOR THE TABLE

MONEY

MIXED
WILDFLOWER
(Dark)
60-lb. Can FOB **\$9.90**

Extracted—Pure as bees can make it.
1-lb. Can Clover, FOB... \$12.00
2-lb. Can Clover (Postpaid to 600 mi.)... 3.85
2-lb. Can Mixed (Postpaid to 600 mi.)... 3.50
Order Promptly—Supply Limited
KANSAS APRIARIES, 1715 Lane St., Topeka, Kan.

DOGS
Genuine English Shepherd Puppies. Guaranteed
healers, watchdogs. Year's trial, Russell Wahl,
Rockport, Ind.
Large Type Collie Puppies. Registerable. A.K.C.
E. Barnes, Collyer, Kan.
Natural Born Bobtailed English Shepherd pups.
Parents natural healers. Females \$10.00, males
\$20.00. C. E. Leinweber, Frankfort, Kan.

PETS
Parrots — Make fine talkers, Redheads,
Yellowheads. Herb Miller, 1911-N, Lubbock,
Tex.

WANTED TO BUY
Wanted: Horse Hair, Tail and Mane. Beeswax.
Write for prices, shipping tags. Sturges Co.,
830 "N" St., Omaha, Neb.
Automobile License Plates wanted before 1913.
Clarence Titus, 6738 Bouvier St., Philadelphia,
Pa.

AGENTS AND SALESMEN
We Sell Rain!—2 inches on 16 acres in ten hours.
Wheel movement over terraces. Free Lodg-
ing—Meals—Engineering—and Appointments.
Farmer group meeting with samples and moving
pictures. Not undersold. Price and quality. Deal-
ers wanted. Factory representatives. Also job-
bers for grease master. Conrad's, Gaylord, Kan.

HELP WANTED
Wanted — Woman or woman and child, light
housework for elderly couple on farm. Good
home and wages. Mrs. Taylor Hayden, Gardner,
Kan.

PATENTS AND INVENTIONS
H. Sturges, 317 Sunderland Bldg., Omaha,
Neb. Registered Patent Attorney, U. S.
Patent Office. Procedure information, evidence
of invention form and patent book sent on re-
quest.

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

Thrilling, Profitable Home Business. Make fast-
seller, chenille monkey trees, dolls, flowers.
Terrific holiday demand. Information free. Velva,
Chemia 2, N. Y.

Mount Maternity Hospital—Seclusion and
delivery service for unmarried girls. Adoptions
arranged; low rates; confidential. 4911 E. 27th
St., Kansas City, Mo.

Stainless Steel Vaporseal. One quart sauce pan
\$6.50; 3 1/2, \$8.50; Two, \$7.50; Six, \$13.50.
Pressure cookers, Roasters, Coffeemakers. Major
Co., 71 Milford, Springfield, Mass.

Church Groups—Raise funds easily! Over 40
useful, unusual money-makers. Try us. Free
catalog. Complete credit. Bob Products, Dept.
-F, Oneonta, New York.

California Perfume Beads—Sensational sellers.
Free particulars. Mission, 2328T West Pico,
Los Angeles 6, Calif.

Wool Pieces. Cotton prints. Bundle \$1.00. Ames
Products, Dept. 17, Carmel, Ind.

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

Watches Practically Wholesale to wearer direct.
Save up to 60% on famous make watches, dia-
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and other merchandise. Free catalog. America's
greatest values. Send names and address to
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Golden Truths, Inc., Amboy, Indiana.

Money-making Opportunities. Choose from hun-
dreds. Read world's biggest classified medium.
Free copy. Popular Mechanics Classified, 200-FK
East Ontario, Chicago 11, Ill.

FARMING "FIRSTS"

First Agricultural Research projects of the U. S. Department of Agriculture were begun in 1862.

First Rural Free delivery was started in 1896.

First Hybrid Seed corn company in U. S. was organized in 1926. Use of hybrid corn became general in the Corn Belt from 1930 to 1940.

National Farm Chemurgic Council was born at Dearborn, Mich., in 1935. Farmers, aided by science and industry, are now producing 60 per cent more food than they were producing in 1920.

First Silo in United States was the ground-pit type, and was introduced from Europe in the early 1870's.

First Silo Built in the United States was a square wooden building constructed by an Illinois farmer in 1873. But there was too much spoilage, and later the round silo proved better.

First Time in History the plowman could ride was in 1884 when the 3-wheel sulky was developed. Features were stability and safety, and the plow also introduced a new principle of leveling, both in and out of the ground.

The Wheatland or One-way disk plow sold in large numbers for the first time about 1927 in the Great Plains, became one of the most versatile tillage machines.

First Step Toward mechanical power in the farm machinery field occurred when steam traction engines pulled gangs of a dozen plows or more.

The Lister was introduced in 1880 as a one-row, walking tool. This popular piece of farm equipment (an invention of Missouri and Kansas farmers) made it possible for farmers to plant row crops in furrows.

First Successful Commercial produc- tion of the heavy-duty offset disk harrow was in 1924, enabled fruit growers to cultivate under their trees.

In 1923 the combination tool car- rier appeared, which enabled Western ranchers to use a variety of heavy-duty tools on the same carrier.

By 1941, Hydraulic controls had appeared on drawn implements, and in many cases the controls not only lifted

Easter Party Help

There's a suggestion for enter-
tainment at an Easter party in our
leaflet, "You Can Make It Part-
ies." Also there are clever hints
for other parties. Write to Home
Service Editor, *Kansas Farmer*,
Topeka, Kan. Enclose 3c for post-
age.

and lowered implement, but also ad-
justed its working position.

Women's Sections of farmers' insti-
tutes first were introduced by Mrs.
Mary Anne Mayo, of Michigan. An ac-
tive worker in the Grange, she inau-
gurated Children's Day in that organ-
ization.

The National 4-H Club Center was
dedicated on February 14, 1951, a 12-
acre campus formerly the Chevy Chase
(Md.) junior college, near Washington,
D. C.

First report of Negro 4-H enroll- ment
was made in 1916—the Southern
States had an estimated enrollment of
2,551 members.

First Regional 4-H camp for out-
standing Negro 4-H boys and girls was
held in 1948 at Baton Rouge, La.—82
members attended the event, at South-
ern University.

First National 4-H Club Congress
at Chicago was held in 1919.

National 4-H Club motto, "To Make
the Best Better," adopted in 1927, was
originally proposed by Carrie Harri-
son, botanist in the Bureau of Plant
Industry of U. S. Department of Agri-
culture.

First National 4-H Club song book
appeared in 1929.

First Introductions of 4-H girls'
song, "Dreaming," and boys' song,
"Plowing Song," were in 1927, by Fan-
nie R. Buchanan, rural life specialist of
Iowa.

First 4-H Work to officially begin
in a U. S. territory was in 1923, in
Hawaii.

First 4-H Work in Alaska was in
1930, and membership includes Indians
and Eskimos.

First U. S. Congressional bill to

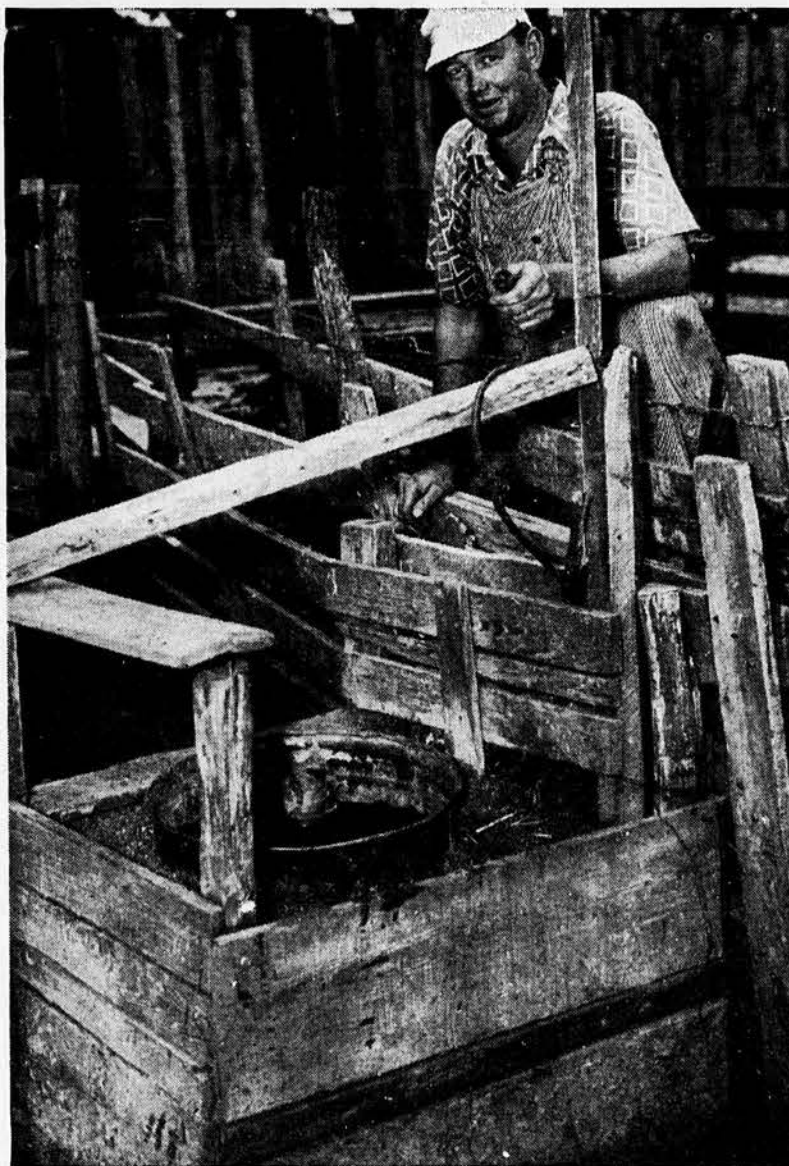
April Party Fun

To get ready for an April party,
you will want to see our leaflet,
"An April Party." Contains sev-
eral games and instructions for
making clever favors. Send 3c to
Home Service Editor, *Kansas
Farmer*, Topeka, Kansas.

augment Extension funds, to aid 4-H
work, was the Capper-Ketcham bill of
1927. It was passed into law on May
22, 1928.

First National Boys and Girls Club
Exposition was held at Chicago, in
1922, consisting of exhibits from 15
states.

WHY CATTLE DRINK MORE



FIVE-DOLLAR WATERER designed by Bert Wassenberg, Soldier, consists of
small drum around which sawdust is packed, held in place by wooden box.
With little surface area, small electric element keeps water from freezing, yet
there always is plenty of water available. Water consumption and gains by
cattle are increased considerably.

For March Parties

Our 3 leaflets may be helpful in
planning your parties for March:

Games for March Parties—6
games and suggested menu.

Peggy's St. Patrick's Day Party
—playlet of 8 characters; 7 old
songs. Simple staging and very ef-
fective.

A Bit o' Irish Fun—good sug-
gestions for invitations, decora-
tions, refreshments and games.

Write to Farm Service Editor,
Kansas Farmer, Topeka, Kan., and
enclose 3c for each leaflet.

First 4-H Club in Korea was ac-
tivated April 7, 1947, in Kyunggi
Province.

In Cuba, 4-H Clubs are known as the
the 5-C's, the first ones being organized
on February 24, 1931.

First 4-H Club in Puerto Rico was
established in 1934, by Mrs. Gloria L.
Gonzalez, a home agent, and member-
ship totaled 25 girls. The same year a
boys' club was formed, with 14 mem-
bers.

First Short Courses in Agriculture
in New Jersey (at Rutgers University)
were in 1905. At 47th event, in October
1952, some 200 farmers and would-be-
agriculturists attended courses at the
Rutgers campus. Classes lasted 10
weeks. Thru the years, 5,000 persons
have attended Rutgers short courses.

First American Poultry incubator
was invented in 1844; was a hot-water
machine heated by charcoal fire. First
factory-made incubators appeared
about 1885. In 1910, the colony-type,
heated brooder was introduced.

March 21

Will Be Our Next Issue

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

Tuesday, March 10

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

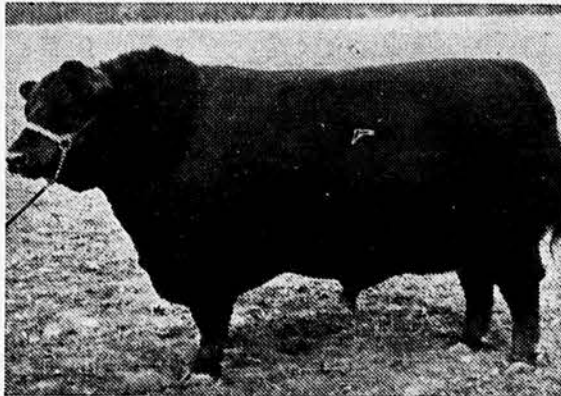
Read the Ads In This Issue

There's a world of helpful in-
formation in the scores of adver-
tisements in this particular issue
of the *Kansas Farmer*.

Read them carefully. If you want
to find out more about the articles
described, don't hesitate to write the
advertiser.

**You Can Buy
Advertised Products
With Confidence!**

LATZKE-SELLIN PRODUCTION SALE Aberdeen-Angus Cattle



(Eileenmere 1073d, three-quarters brother to Eileenmere 1050th, 1950 International Grand Champion.)

GOOD CATTLE — GOOD PEDIGREES

**April 7, 1953
Junction City, Kansas**

67 HEAD

31 BULLS all ready for service

36 FEMALES. 16 Bred Heifers. 7 heifers sired by 1073 and bred to Eileenmere 1544. There will be 6 Cows with calves at side. Some Open Heifers.

We will sell sons and daughters of Eileenmere 1073rd. A portion of the females are bred to him. Some will have calves at foot by sale day. The heifers in the sale are bred to Eileenmere 1544, our herd sire. 1073rd is one of the good sons of Eileenmere 500th, having the same dam as Quality Bardolier 3rd. We feel this offering is of the kind that will improve beef cattle and believe the cattle are bred right, having been taken out of our breeding herds. They are selling in strong breeding condition.

Write for catalog to

**OSCAR LATZKE, Junction City, Kan., or
ELMER H. SELLIN, Chapman, Kan.**

Also a consignment from herd of F. J. Gugler, Woodbine, Kan.
Sale to be held at the Latzke Farm 10 miles south of Junction City. Watch for sign.

Bill Hagel, Auctioneer

Mike Wilson for Kansas Farmer

Are You **BARGAINS!** Turn to the
Looking for Classified Pages

MID-KAN. ABERDEEN-ANGUS BREEDERS' ASSN.
Invites You to Attend These 2 Spring Events



**ANNUAL FIELD DAY
FRIDAY, MARCH 20**

at the

HAROLD GIESS FARM — ARNOLD

The cattle will be judged by Dr. Cox and Gerald Smith of KSAC

THE 13TH ANNUAL SHOW & SALE

will be on

APRIL 9

Show at 9:00 A. M. — Sale at 1:00 P. M.

Joe Hooten of Ft. Worth, Tex., will place the cattle for selling order.

STATE FAIRGROUNDS — HUTCHINSON, KAN.

20 BULLS — 60 FEMALES

The female offering is of good quality, most of the bulls are of serviceable age and extra good individuals, carrying the finest of pedigrees.

For catalog and all other information address:

PHIL STERLING, Secretary, Canton, Kan.

Mike Wilson for Kansas Farmer

Norton County Has Big Soil Year

Norton county's Soil Conservation District had a big year in 1952.

Nearly half of all county farm land is included in the district, which is ending its 7th year of operation. Farmers have started co-operation on 715 farms comprising 267,000 acres. Conservation plans have been developed on 528 farms comprising 192,000 acres. This is about 36 per cent of farm land in the county.

During the year, 493 miles of terraces and 12,358 acres of contour farming were established. This gives a total of 40 per cent completion on these 2 practices needed in the county. Thirty farmsteads were planted in windbreaks, for a total of 170 acres planted since the district was started. A total of 1,465 acres of grasses have been seeded for a total of 3,736 acres to date. A total of 2,817 acres of sweet clover were planted for a total of 3,437 acres. Four ponds were built.

Census Report Shows Farming Trends

Fewer Kansas farmers are farming more land than 30 years ago, according to a U. S. Census Bureau review of Kansas agriculture for 1920-1950.

The work is being done with more tractors and trucks. There were 88,835 motor trucks on farms in 1950 compared with 3,928 in 1920 and 146,266 tractors compared with 17,177.

Farmlands totaled 48,611,366 acres in 1950 and 45,425,179 in 1920. Number of farms dropped from 165,286 to 131,394. Peak was in 1935, when there were 174,589 farms, averaging 275 acres. In 1950, average farm had 370 acres. Average value of farms in 1950 was \$24,756, \$8,469 in 1935 and \$17,122 in 1920. That year there were only 14,390 farms with electricity, compared with 97,728 in 1950!

See UP "Ag" Train

Eight Kansas communities are being visited this month by Union Pacific Railroad's agricultural improvement car—on its 6th annual tour. Livestock management and disease control are featured topics of discussion and display.

Communities visited and meeting times are: Solomon, March 9, 9 a. m. and 1:30 p. m.; Minneapolis, March 10, 9 a. m. and 1:30 p. m.; Glasco, March 11, 1:30 p. m. and 7 p. m.; Beloit, March 12, 1:30 p. m. and 7 p. m. The train already has visited Colby, Hoxie, Hill City and Paradise.

Kansas State College Extension service staff members are co-operating with the Union Pacific during the car's trip.

Hold Grain Meetings

Eight grain sanitation and grading meetings have been set for Kansas towns during March, announces Norman Whitehair, KSC Extension grain marketing specialist:

Wellington, March 17; Chanute, March 18; Topeka, March 19; Salina, March 20; Larned, March 24; Liberal, March 25; Goodland, March 26 and Norton, March 27.

Emphasized at meetings will be how to eliminate rodent and insect filth from stored grains.

Lisle Longsdorf Goes to Iran

Lisle Longsdorf, Kansas State College Agricultural Extension publicity editor, is going to Iran. He has accepted a position with the Office of Foreign Agricultural Relations to teach Extension workers. He plans to be abroad 3 months. The project will be a 6-month elementary training program in Iran for 200 active and prospective workers. Mr. Longsdorf is nationally-known for his Extension publicity and teaching, often aids workshops of that nature.

Beef CATTLE

REG. HEREFORD BULLS

10 to 18 months old. Sired by: OJR Jupiter Star 12th, Domino Lad KTO 11th and F. Elation 22nd. Top range and herd bull prospects.

WAITE BROS., Winfield, Kansas

High Quality POLLED HEREFORD BULLS OF SERVICEABLE AGES



Sired by Polled sons of C. K. Cadet bloodlines intensely Polled thru 40 years of constructive breeding.

REASONABLY PRICED

GOERNANDT BROS.

Ames, (near Concordia) Kansas

POLLED SHORTHORNS

Established — 1907

Banburys over 150 in herd. Cherry Hill—Oakwood—Coronet blood. None better. For sale: One choice young sire. Club calves, bulls and females. Some of all ages. Including the show herd. No public sale. Prices reduced. You can save \$25 to \$100.

BANBURY & SONS

Plevna, Kansas

9 miles southwest of Hutchinson, then west 14 miles on blacktop.

Reg. Polled Herefords

FOR SALE:



Bulls from 10 to 15 months old sired by WHR Leskan 5th. Open Heifers. Bred Heifers carrying the service of Modest C. Lamplighter 15. Priced reasonable.

WALBERT J. RAVENSTEIN

Adams, Kansas



FOR SALE

Serviceable age bulls, descendants of our champions from our cow herd that is bred in the purple. If you are in the market for good Polled Hereford bulls, don't fail to pay us a visit. Plain View Farms,

JESSE RIFFEL & SONS, ENTERPRISE, KAN.

"THE ALL 487 SALE" ABERDEEN - ANGUS



March 27, 1953

Beverly Sales Pavilion

SALINA, KANSAS

Featuring only grandsons and granddaughters of the "487."

54 LOTS

14 BULLS and 40 FEMALES

Sale at 1:00 P. M.

For catalogs and information write

JOE J. McQUILLAN

P. O. Box 203 Clearwater, Kansas

REGISTERED ANGUS

Now offering bulls 10 to 18 months.

CHESTNUT & RAILSBACK, Quinter, Kansas

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AUCTIONEER

LIVESTOCK AND REAL ESTATE

1529 Pias Avenue

Topeka, Kan.



HAROLD TONN

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

Livestock Advertising Rates

Effective February 1, 1951

1/2 Column inch (5 lines) ... \$3.50 per issue
1 Column inch ... \$9.80 per issue
The ad costing \$3.50 is the smallest accepted.

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

MIKE WILSON, Livestock Editor
912 Kansas Avenue
Kansas Farmer - Topeka, Kansas



In the Field

MIKE WILSON
TOPEKA, KANSAS
Livestock Editor

THE CENTRAL KANSAS POLLED HEREFORD ASSOCIATION held an auction of purebred Polled Herefords at Herington, February 17, 1953. Sixty-two head of cattle brought a total of \$1,300, to average \$308. Thirty-nine bulls averaged \$343 while 23 females averaged \$250. Show champion and top sale bull was Lot 40, PVF Vance more 710th, consigned by Jesse Riffel & Enterprise, and sold for \$1,050 to Walter Herman, Ianta, Mo. Show champion and top-selling female was Lot 48, Golden Domino 1st, consigned by Arthur Wittorff & Son, Inman, and sold for \$385 to Dan Sullivan, Horton, O. J. Fields, Lost Springs, was secretary and sale manager. Col. Freddie Chandler sold the offer-

KANSAS ABERDEEN BREEDERS invites everyone interested in better beef cattle to attend annual field day of the **MID-KANSAS ABERDEEN-ANGUS BREEDERS ASSOCIATION**, March 20, at the Harold Geiss farm, Arad. Anyone desiring more information should get in touch with Phil Sterling, Canton, secretary of the organization. A number of breeders will have cattle on display, and program will consist of judging contests and demonstrations.

On February 16, the **SOLOMON VALLEY HEREFORD ASSOCIATION** held their sale at home. Sixty-eight lots sold for \$19,750, to average \$290. Thirty-six bulls averaged \$345 and females sold for an average of \$229. Cham-

plion and top-selling bull was Lot 25, JV Dandy Larry 4th, consigned by John C. Vetter & Son, Beloit, sold for \$810 to H. A. Blair, Larned, and B. W. Hereford Farm, Topeka. Champion female was Lot 41, Glendale Rose 49th, consigned by Glen Adee, Phillipsburg, and brought \$385 on the bid of Max Jarvis, Phillipsburg.

Frank Wilson of CK Ranch judged the show. The sale was managed by the president and sale manager of the Solomon Valley Association, J. Harold Carswell, Alton, Col. Gene Watson cried the sale.

In the **C. E. REED** and guest consignment sale of purebred Beefmaker Angus sale, held at Wichita, February 17, 44 lots sold for \$15,920, to average \$362. Thirty-two bulls averaged \$363 and 12 females averaged \$359. Top bull was Lot 28, Ever Prince 8th CJ, consigned by Bucyrus Angus Farms, Bucyrus, brought \$785, selling to R. S. McCoy, of Cedarvale. Top female was Lot 37, Blackbird 29th of Wichita, consigned by C. E. Reed and brought \$460, going to L. T. Grundycke, Medicine Lodge. Col. Roy Johnston sold the sale.

Eighty-eight head of Herefords in the **KORRBORWEGE HEREFORD SALE** at Grand Island, Neb., February 13, sold for \$38,835, to average \$442. Thirty-seven bulls averaged \$532 and 51 females averaged \$382. Top bull was BK Royal Duke 1001st by NB Royal Duke, selling to Hubert Mayer, Arapahoe, Neb., for \$1,200. Second top bull was NB Super Princeps 4th, by RS Super Princeps, selling to Milton Lutz, Bladen, Neb., and John Wilson, of Inavale, Neb., for \$1,010. Top-selling female was BK Lady Lill 8th, selling to Ralph Billenwilliams, Burr Oak, for \$1,000. Second top female was Roberta A, selling to Minnish Brothers, Dysart, Ia., for \$920. Mr. and Mrs. Norbert Lorange, Roseland, Neb., and Mr. and Mrs. Boyd Korb, Burr Oak, were owners. R. Clare Clement was sale manager and offering was sold by Cois. Art Thompson and Charles Corkle.

H. G. HEREFORD FARMS, Colby, owned and operated by Mr. and Mrs. Howard Grover, held their production sale of Register of Merit breeding at their farm on February 13. Fifty-four head of Herefords sold for \$38,630, to average \$715. Twenty-five bulls sold for an average of \$797 and 29 females averaged \$648. Top-selling bull was Lot 1, HG Crusty 327th, by CK Crusty 36th. He was purchased by Delmar Roberts, Gove, for \$3,500. Top female was Lot 55, HG Crustina 373D, sold for \$1,500 to E. J. Barnes, Collyer. Col. Gene Watson sold this fine offering of cattle, assisted by various men of the livestock press.

One Hereford breeder in Kansas that is really making progress in the business is **DELMAR ROBERTS**, Gove. Since he founded his good herd of Herefords, he has been constantly in search of good bulls to place at head of his herd. Thru this careful selection he has built the herd to what is known as one of top herds in Kansas at the present time. Most recent selection was purchase of top-selling bull in the HG Hereford Farms sale, February 13 at Colby. This bull was bought at \$3,500. He is a son of CK Crusty 36th and will be at head of the Roberts herd.

Annual field day of the **NORTHEAST KANSAS BETTER BEEF ORGANIZATION** will be held at the Civic Center Building in Horton, Saturday, April 11. Various classes of livestock will be placed by A. G. Pickett, Livestock Sanitary Commissioner, Topeka. Everyone interested in better livestock is cordially invited and anyone desiring information as to entries, etc., should contact Harvey Goertz, Brown county agent, addressing him at Hiawatha.

TREND OF THE MARKETS

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

	Week Ago	Month Ago	Year Ago
Steers	\$26.00	\$28.00	\$36.00
Hogs	21.35	19.65	17.85
Calves	22.00	21.00	25.50
Wethers, 4 to 5 lbs. ....	.27	.26	.24
Wethers, Standards .....	.41	.38 1/2	.35
Wethers, No. 1 .....	.58	.58	.80
Wethers, No. 2, Hard	2.46 1/2	2.40 1/2	2.50
Wethers, No. 2, Yellow	1.60 1/2	1.59	1.89 1/2
Wethers, No. 2, White .....	.89 1/2	.95	1.03 1/2
Wethers, No. 2	1.37	1.47	1.49
Wethers, No. 1	42.00	—	35.00
Wethers, No. 1	34.00	—	27.00

Dual-Purpose CATTLE

FOR SALE—JUN RAY PRINCE
Nov. 21, 1949, by Retnuh Royal Master RM, VG by Retnuh Stylsh Maid 42nd Silver Metal RM, Dam: Liberty Jeanette 2d RM, VG. 76 lbs. B. F. by Liberty Fern Jeanette RM, VG. Prince was first at spring show in 51 and third American Dairy Royal. Prince can be seen at Nickerson. Also 15 months serviceable bull and 2 cows just fresh.
RAYMOND L. NICHOL, Windom, and **DALE E. LEICHLITER**, Nickerson, Kan.

JOAN Milking Shorthorn BULL
No 2 bull calves, roan and white. "Brookside Walgrove Breeding."
WAYNE E. SCHURLE, Alma, Kansas

Duallyn MILKING SHORTHORNS
Two sires from Duallyn have improved milking and fleshing quality of many herds, by a son of one of the noted proven sires: Imported Iford H. Gwynne 11th, RM, or Neralcam Admiral 4. Write for prices.
JOHN B. GAGE, Rt. 1, Eudora, Kansas

REG. MILKING SHORTHORN BULL
A nice, 18 mo. Sire: Reserve Jr. Champion at American Dairy Royal. High production on both sides pedigree. Priced reasonable.
Mer Knackstedt, Inman, Kan. 2 N. 1 1/4 W.

Dairy CATTLE

WISCONSIN DAIRY CATTLE
Police Holstein, Guernsey and Brown Swiss calves, Yearlings and Springing Heifers. Delivered to your farm C.O.D.
R. Grosse, York, Neb., Bx. 48, Ph. 1419

REGISTERED JERSEYS
Ages, sired by Dynamo Blonde and Design under Observer.
Marshall Bros., Sylvia, Kansas

MERCER COUNTY ILLINOIS

23rd Annual March Sale

SATURDAY, MARCH 21ST
AT ALEDO, ILLINOIS



22 Bulls — 121 HEAD — 99 Females

The bulls are strong aged, ready for service; the females include many cows of good ages, both with calves at foot or to calve early. An outstanding group of bred heifers with a few top quality open heifers. Whether you are in search of the most fashionable families, or high class commercial cattle you will find them there.

Write at once for sale catalog to

H. McWHORTER, Sale Manager, Aledo, Illinois
Mark Dempsey with this publication.

U. S. CENTER ANGUS BREEDERS ASSOCIATION'S 8th ANNUAL SHOW And SALE

Thurs., March 26, 1953

Smith Center, Kansas



71 Head of Registered Angus Breeding Cattle
19 Bulls — 52 Females
Show at 9:30 A. M.—Sale at 1

The bulls are all of serviceable age and the females are bred cows, bred heifers and open heifers.

Plan to attend this sale and notice the steady improvement from year to year in the cattle that are consigned to this sale.

For catalog write the secretary,

LEONARD PATMAN, Smith Center, Kansas

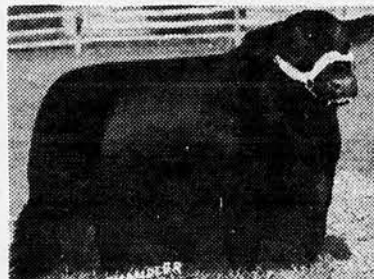
Auctioneer: Hamilton James, Newton, Ill.

Mike Wilson for Kansas Farmer

"THE KANSAS SPECIAL"

HUTCHINSON, KANSAS

MONDAY, MARCH 30, 1953



Central Sales Pavilion — 1:00 P. M.

REGISTERED ABERDEEN-ANGUS

from the herds of

ERICSON, THALMANN & DAVIS

50 Choice Females — 10 Herd Sire Prospects

Sires are 109, a son of "487"; Happy Acres 70, \$20,000 son of "687"; Prince Sunbeam 633, a son of "29th"; Bandalier of Anoka 54th.

Families: Blackcap Empress, Zara, Mignonne, Witch of Endor, Porthelin Lucy, Juane Erica, Miss Burgess, etc.

For sale catalog and information contact:

WENDELL DAVIS, Norwich, Kansas

Auctioneers: Sims and Watson

Mike Wilson for Kansas Farmer

HOGS

FOR SALE YORKSHIRE GILTS
Bred for March and April farrow to L. T. H. Evergreen King 17 F, littermate to champion barrow over all breeds at Nebraska Fair 1951 and champion carcass over all National Barrow Show, Austin, Minn. 1951. Also a few boars.
GEO. WM. BURKHOLDER
Abilene, Kansas

REG. SPOTTED POLAND CHINA CHOICE FALL BOARS AND GILTS
Top bloodlines, sired by Kansas Model & The Duke J. V. Cundiff & Sons, Talmage, Kan. (4 1/2 m. N.)

POLAND CHINA BRED GILTS

For Sale: 100 head to select from. Also tops in fall boars and gilts. Write **BAUER BROS.**, Gladstone, Neb. Just over the line in Neb.

SUTOR HEREFORD FARMS Zurich, Kansas

SPRING SALE



Friday, March 20, 1953

Sale to be held in

PLAINVILLE, KANSAS

in modern Caraway Sale Barn

43 BULLS

All old enough for service, many ready for heavy service. A few herd bull prospects by MW Mission Larry 5, CA Larry Domino 3 and JO Duke Pride 16. These bulls are all the growthy kind that will add pounds to your calf crop.

22 BRED HEIFERS

All mated to CA Larry Domino 3.

11 OLDER COWS

Bred to our good herd bulls.

Write for illustrated catalog to

EARL SUTOR, Plainville, Kansas

Freddie Chandler, Auctioneer

Mike Wilson for Kansas Farmer

Buy United States Savings Bonds

MORRIS COUNTY

HEREFORD BREEDERS SALE

Wednesday

March 18, 1953

at

Council Grove, Kan.

SELLING 56 HEAD

24 Bulls — 32 Females



Bulls are serviceable-age. Open and Bred Heifers, 6 Cows will have calves by sale day, or near sale day, and are from the herd of one of our great Hereford breeders of the time.

**This Offering in Popular Bloodlines of
WHR — Larry Domino — Hazlett**

CONSIGNORS

J. J. MOXLEY, Council Grove
MILLER-MANNING, Council Grove
MRS. L. B. JOHNSON, Alta Vista
LEROY FECHNER, Alta Vista
WAYNE WARD, Elmdale
TITUS & STOUT, Cottonwood Falls

ALBERT MORGAN, Alta Vista
CLARENCE TUEPKER, Wilsey
J. B. PRITCHARD, Dunlap
PHIL SANDERS, Miller
DR. B. E. MILLER, Council Grove
R. D. & DEAN McALLUM, Matfield Green

The offering will sell mostly in breeding condition.

SHOW AT 10:00 A. M.

SALE AT 1:00 P. M.

For catalog write

JOE GOODWIN, Secretary, Council Grove, Kan.

Gene Watson, Auctioneer

Mike Wilson for Kansas Farmer

Public Sales of Livestock

Holstein Cattle

March 23—Tulsa Spring Classic, State Fairgrounds, Tulsa, Okla. Robert W. Adams, Sale Manager, 116 E. 5th St., Tulsa, Okla.

Aberdeen-Angus Cattle

March 26—U. S. Center Aberdeen-Angus Sale, Smith Center, Kan.
March 27—Kansas 487th Sale, Salina, Kan.
March 30, 1953—Kansas Special Registered Aberdeen-Angus Sale, Ericson, Thalmann & Davis, Hutchinson, Kan.
April 1—Southeast Kansas Aberdeen-Angus Breeders Association, Iola, Kan. Clarence C. Ericson, Savonburg, Kan.
April 9, 1953—Mid-Kansas Aberdeen-Angus Association, Hutchinson, Kan. Phil Sterling, Secretary, Canton, Kan.
April 11—Oscar Latzke & Elmer Sellin, Junction City, Kan.
April 16—Northeast Kansas Aberdeen-Angus Association, Horton, Kan. Wayne Ukena, Sale Manager, Everest, Kan.
April 21—Herman J. Steinbuechel Dispersion, Florence, Kan. Sale at J. J. Crowther Sale Barn, Canton, Kan.
May 1—A-Bar-A Ranch, Encampment, Wyo. Sale at Silver Top Farm, Belton, Mo. H. B. McCorkle, Sales Manager, Smithville, Mo.
May 4—Penney & James, Hamilton, Mo. J. B. McCorkle, Sales Manager, Smithville, Mo.
May 5—Marycrest Farm, Maloy, Ia. J. B. McCorkle, Sales Manager, Smithville, Mo.
May 6—Hank Farms, Osceola, Ia. J. B. McCorkle, Sales Manager, Smithville, Mo.

Hereford Cattle

March 13—Western Republican Valley Hereford Association, St. Francis, Kan.
March 17—Roberts Hereford Farm, Gove, sale at Quinter, Kan.
March 18—Morris County Association, Council Grove, Kan.
March 20—Sutor Hereford Farms, Palco, Kan.
March 24—Doty Farm, Nelson, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.
April 2—Reser & Straight Creek Farm Joint Sale, Emporia, Kan.
April 14—North Central Kansas Hereford Association, Belleville, Kan. George C. Wreath, Sale Manager, Belleville, Kan.
April 16—Duttlinger Brothers, Monument, Kan. and Homestead Ranch, Levant, Kan. Sale at Oakley, Kan.
April 18—Mid West Polled Hereford Association Show and Sale, Deshler, Nebr. Fred C. Duey, Sale Manager, Chester, Nebr.
May 1—Kaw Valley Hereford Farm, Manhattan, Kan.
September 7—Lee M. Smith, Claremore, Okla. Complete Hereford dispersal.
October 5—Beeks & Cleland, Baldwin, Kan.
October 29—Kansas Flint Hills Association, Cottonwood Falls, Kan.
November 4—Lincoln County Hereford Association, Sylvan Grove, Kan.
November 6—Cowley County Hereford Breeders' Association, Arkansas City, Kan.
November 11—W. H. Tonn & Son, Haven, Kan.
December 4—South Central Hereford Association, Newton, Kan.

Guernsey Cattle

April 13—Missouri Breeders' Association, Columbia, Mo. H. A. Herman, Secretary, Exchange National Bank Building.

Polled Hereford Cattle

March 10—O'Bryan Ranch, Hiattville, Kan.
March 23—Kansas Polled Hereford Association Bull Sale, Norton, Kan. Vic Roth, Secretary, Hays, Kan.
April 6—Real Plato Domino Polled Hereford Sale, Hays, Kan. Vic Roth, Sale Manager, Hays, Kan.
April 7—Darrel Hinkhouse Polled Hereford Palco, Kan. Sale at Plainville, Kan.
April 20—Paul & Gladys Molz Polled Hereford, Kiowa, Kan.
April 21—Joe Maes Polled Herefords, Bushy, Kan. Sale at Osborne, Kan. Vic Roth, Sale Manager, Hays, Kan.
May 20—Golden Willow Ranch, Liberal, Mo.

Red Poll Cattle

November 11 & 12—Annual meeting and National Sale, Topeka, Kan. F. A. Sloan, Secretary, 3275 Holdrege St., Lincoln, Ne.

Shorthorns and Polled Shorthorns

April 7—Nebraska and Kansas Breeders' Association, Superior, Nebr. Mervin F. Aegerter, Sales Manager, Seward, Nebr.
April 15—Shorthorn and Polled Shorthorn Breeders' Show and Sale, State Fairgrounds, Hutchinson, Kan. Mervin F. Aegerter, Sales Manager, Seward, Nebr.
April 20 & 21—National Polled Shorthorn Congress Show and Sale, Hutchinson, Kan. American Polled Shorthorn Society, Sales Managers, 7 Dexter Park Ave., Chicago, Ill.
April 22—Thiemans, Concordia, Mo.

Shorthorn Cattle

March 16—Hartley Farms, Baxter Springs, Kan. Mervin F. Aegerter, Sales Manager, Seward, Nebr.
April 10—Mid-Kansas Breeders' Association, Hays, Kan. Mervin F. Aegerter, Sales Manager, Seward, Nebr.
April 16—North Central Kansas Breeders' Association, Beloit, Kan. Edwin Hedstrom, Secretary, Marysville, Kan.

Corriedale Sheep

July 27-28—All-American Corriedale Breeders' Show and Sale, Columbia, Mo. Rollo E. Singleton, Secretary-Manager, 105 Park Ave., Columbia, Mo.

Dorset Sheep

April 21—Leonard Steward, Grenola, Kan. Sale at Winfield, Kan.

Suffolk Sheep

June 8—Warrick & Rock, Oskaloosa, Ia.

Sheep—All Breeds

June 19-20—Midwest Stud Ram Show and Sale, Sedalia, Mo. Rollo E. Singleton, Sales Manager, care State Department of Agriculture, Jefferson City, Mo.

ROBERTS HEREFORD FARM PRODUCTION SALE



**MARCH 17, 1953
QUINTER, KANSAS**

SELLING IN THE SALE BARN

60 HEAD—24 Bulls and 36 Females

This sale features the get of JO Royal Domino 22d by Baca R. Domino 7th, the sire that made such a notable record in the L. L. Jones & Sons Dispersion.

Several top herd bull prospects as well as range bulls will be selling.

The females include bred and open heifers and cows and calves.

For catalog write:

DELMAR ROBERTS, Gove, Kansas

Auctioneer: Gene Watson

Mike Wilson for Kansas Farmer

COMING EVENTS

March 7—Lamb Feeders Day, at Garden City.
 March 7—Doniphan county 4-H Club day at Troy, 9 A. M. to 3 P. M.
 March 7—Smith county 4-H Club day, at Smith center high school, 10 A. M. to 3 P. M.
 March 7-15—National 4-H Club Week.
 March 9—Norton county farm welding school at Norton Legion hall, 10 A. M.
 March 9—Butler county farm buildings meeting.
 March 10—Nemaha county Artificial Breeders' association annual meeting.
 March 10—Wallace county garden insect and disease school at Wallace county courtroom.
 March 10—Ottawa county Union Pacific Railway coach crops exhibit, at 10 A. M.
 March 10—Ellsworth county housing tour at Ellsworth.
 March 11—Russell county housing tour with Raymond L. Everson and Vera May Ellithorpe of SC.
 March 11—Hodgeman county dairy feeding, crops and weed control meeting at Jetmore.
 March 11—Chautauqua county farmstead planning meeting with Leo Wendling of KSC, at Jetmore.
 March 11—Kiowa county grain conditioning and marketing school with Harold Stover and Norman Whitehair of KSC, at Greensburg community building, 7:30 P. M.
 March 11—Cherokee county forestry demonstration with Harold G. Gallaher of KSC, Day meeting.
 March 12—Kiowa county 4-H records school and demonstrations with J. H. Coolidge and John Hanna of KSC, Greensburg community building at 7:30 P. M.
 March 12—Wallace county 4-H officers training school at Extension office.
 March 12—Dickinson county poultry school at Billene, 10 A. M. to 3 P. M.
 March 12—Sheridan county welding school at Hoxie, 10 A. M.
 March 12—Pratt county grain conditioning school at 4-H building, 1:30 to 4 P. M.
 March 12-13—Barton county individual styling unit leaders training school.
 March 12-14—Kansas Live Stock Association annual meeting, Wichita.
 March 13—Pratt county 4-H leaders training school at club rooms, 10 A. M. to 4 P. M.
 March 13—Barber county grain storage and marketing school with Harold Stover and Norman Whitehair of KSC, at Medicine Lodge, 10 A. M. to 3 P. M.
 March 16—Grant county welding school with Harold Ramsour and John M. Ferguson of KSC, at Ulysses high school, 10 A. M.
 March 16—Scott county livestock tour at Scott City.
 March 17—Kansas Alfalfa Conference at Manhattan.
 March 17—Linn county poultry school with Marion E. Jackson and M. A. Seaton of KSC, at Mound City courthouse.
 March 17—Rawlins county farmstead and landscape layout meeting in preparation for later demonstration.
 March 17—Grant county home furnishings lesson on window treatment with Mrs. Winona Markey of KSC, at Ulysses 4-H building, 10 A. M.
 March 17—Morris county marketing meeting with Norman Whitehair of KSC, at Wilsey community hall.
 March 17—Doniphan county district crop improvement school at Troy, 10 A. M. to 3 P. M.
 March 17—Hodgeman county West-Central Dairy Herd Improvement Association annual meeting at Jetmore courtroom.
 March 18—Ottawa county district certified seed growers school at Extension room, 10 A. M.
 March 18—Jackson county swine carcass grading meeting with Ray Hoss and Wendell Moyer of KSC, at Holton, 10 A. M.
 March 18-19—State Institution Herdsmen's Conference at Manhattan.
 March 19—Pottawatomie county swine carcass grading school at St. Marys.
 March 19—Shawnee county grain grading school.
 March 19—Comanche county Dairy Herd Improvement Association annual meeting at Coldwater, 7:30 P. M.
 March 19—Ness county gardening school with W. G. Amstein of KSC, at Ness City courtroom, 1:30 P. M.
 March 20—Grant county home health and sanitation meeting with Martha Brill of KSC, at Ulysses 4-H building, 10 A. M.
 March 20—Osage county poultry school at Lyndon courtroom.
 March 21—Smith county regional 4-H Club Day at Plainville, 10 A. M. to 3 P. M.
 March 21—Doniphan county regional 4-H Club Day at Hiawatha, 9 A. M. to 3 P. M.
 March 21—Kearny county regional 4-H Club Day at Deerfield.
 March 21—Bourbon county model meeting, talks and demonstrations at Fort Scott courthouse, 9 A. M.
 March 21—Cherokee county 4-H Club days, model meeting, talks and demonstrations at C.C.C.H.S. in Columbus.
 March 23—Scott county electricity and diesel school, Scott City.
 March 23—Grant county deep chiseling and terrace maintenance meeting with Walter E. Selby and R. C. Lind of KSC, Ulysses 4-H Club building, 10 A. M.
 March 24—Grant county garden and grain pests meeting, Ulysses 4-H building, 10 A. M., tentative.
 March 24—Five-state Farm Forum, at Liberal.
 March 24—Hodgeman county livestock outlook meeting, Jetmore courtroom.
 March 24-26—Annual report, Artificial Breeding Association, at Manhattan.
 March 25—Ottawa county carcass grading demonstration of swine and beef, 10 A. M. Place to be announced.
 March 25—Nemaha county 4-H training in demonstration with Raymond Fort of KSC.
 March 25—Morris county 4-H Club leaders meeting with Roger E. Regnier of KSC, Camp Freemont, 10 A. M.
 March 25—Bourbon county 4-H council meeting, Ft. Scott courthouse, 8 P. M.
 March 26—Grant county meeting with L. E. Willoughby and Frank G. Bieberly of KSC, Ulysses 4-H building, 10 A. M.
 March 26—Scott county crops grading meeting, Goodland.
 March 26—Wallace county district grain grading meeting, Colby school.
 March 26—Doniphan county 4-H Club leaders training meeting, Troy, 10 A. M. to 3 P. M.
 March 26—Hamilton county diesel and electric engine school, Syracuse.
 March 26—Clay county hog carcass demonstration. Time and place to be announced.
 March 26—Cloud county livestock carcass demonstration and grading school, Concordia, sales pavilion.
 March 26-28—State Home Economics Association meeting, Manhattan.
 March 27—Scott county Extension agent's school, Colby.
 March 27—Norton county district grain grading school at Legion hall, Norton, 10 A. M.
 March 27—Ness county Mid-Kansas Angus field day at Harold Gless farm, Arnold, all day.
 March 27—Kearny county winter school on diesel maintenance and care of shop motors, Laklin.
 March 30—Elk county Livestock Association meeting on pasture management, at Howard Fair building, 8 P. M.
 March 31—Sheridan county leaders training meeting on electrical equipment and water sanitation, Hoxie, 10 A. M.
 March 31—Shawnee county landscaping meeting.
 March 31—Pottawatomie county farm meeting summary and analysis, Westmoreland.
 March 31—Jewell county Farm Management Association spring summaries meeting, Mankato courthouse, 2 P. M.
 April 1—Rawlins county milk and equipment sanitation meeting, Atwood Extension office, 10:30 A. M.

No. 8 in series of farm biographies of agricultural "greats"...

CHARLES V. RILEY

Charles Valentine Riley, first Missouri State Entomologist, went on to become known in all parts of the world as the foremost economic entomologist of his day.

He was born September 18, 1843, near London, England. After spending his boyhood in that country he was sent to France and Germany for education. At 17 years old he sailed for America, became a farmer in Illinois. A short time later he went to Chicago to be a printer and a reporter for a farm magazine. Following the Civil War he returned to agricultural editorial work. While a boy he had become interested in the study of insects. At 9 years he kept notes on them and drew pictures, showing unusual artistic talent. As a farm writer in Chicago he authored many articles on insects damaging farm crops. He and Ben J. Walsh, first state entomologist of Illinois, later founded and edited The American Entomologist. In 1868, when Missouri passed a law providing for a state entomologist, Charles Riley was chosen. He was only 25 years old, but had shown unusual interest and talent in entomology. Before 9 years had passed in his new job he had become known as the world's leading economic entomologist.

In 1876, thru his efforts, the U. S. Entomological Commission was founded by Congress. This brought him to Washington, D. C., and in 1878 he was appointed USDA entomologist. Except for an interval of 2 years, he held that position until 1894. He was a leader in the USDA, publishing life histories and remedies of hundreds of insects.

RESER POLLED HERFORD DISPERSION AND STRAIGHT CREEK RANCH

Emporia Livestock Sale Pavilion

Emporia, Kansas

April 2, 1953—1:00 P.M.

10 Bulls — 50 LOTS — 40 Females

16 Calves — 66 HEAD

Freddie Chandler, Auctioneer

For catalogs write

VIC ROTH, Sale Manager, Box 702, Hays, Kansas

Mr. C. H. Reser, Hamilton, Kan., sold his ranch and in order to dispose of his cattle at auction, invited Straight Creek Ranch to sell with him. There are many top cattle selling in this sale. — Vic Roth, Sale Manager.



C. H. RESER POLLED HERFORD DISPERSION Selling 4 Bulls, 20 Females

1 Herd Bull, Advance Aster, son of G Advance Return. 1 Herd Bull, Choice Domino 108, grandson of CMR Choice Domino and dam by a daughter of Beau Perfect 246. 2 Yearling sons of MF Domino Battle 814, grandson of Battle Domino 11th. 16 Brood Cows of Victor Plato, Real Plato Domino and Worthmore bloodlines. These cows sell with calves by side sired by MF Domino Battle 814. 4 Open Heifers sired by MF Domino Battle 814. The herd bull, O Choice Domino 108, selling was one of the top-selling bulls in the 1952 Joe O'Bryan Spring Sale.

C. H. RESER, Owner, Hamilton, Kansas

STRAIGHT CREEK RANCH CONSIGNMENT Selling 6 Bulls, 20 Females

1 Herd Sire, CK Royal Duke 3rd, son of WHR Royal Duke 33rd the 3rd was reserve champion bull at the Kansas State Futurity Show and Sale several years ago, his dam is an Anxiety bred cow. 5 Yearling Bulls sired by CK Royal Duke 3rd, there are top herd bull prospects in this group. 4 Bred Heifers sired by CK Crusty 70, son of CK Cruiser D 34th, the Register of Merit bull. 8 Open Yearling Heifers sired by CK Royal Duke 3rd. 8 Bred Heifers, some polled and dehorned. In the group of open yearling heifers are heifers that have won their classes at a number of shows the past season. We are keeping a number of daughters of CK Royal Duke 3rd in our herd so am offering him in this sale. He is a top breeding bull as you will note by his calves in this sale.

JOHN SPENCER, Owner Straight Creek Ranch, Whiting, Kan.
 Mike Wilson for Kansas Farmer

KANSAS POLLED HERFORD BULL SALE

Norton, Kansas — March 23, 1953

SELLING 70 BULLS

Sale held in Norton Sale Pavilion

SHOW AT 9:00 A. M., C.S.T.
 SALE AT 1:00 P. M. C.S.T.

For top Range Bulls and Herd Bull prospects be sure and attend this sale. Most of the bulls are of serviceable age.

The banquet and meeting will be held at the Kent Hotel, Sunday, March 22, at 7:00 P. M.

VISITORS WELCOME

CONSIGNORS—Norton Sale

TOM B. ANDERSON, Bunker Hill
 AUST & ZACHMAN, Ellis
 PAUL BAIER, Larned
 J. H. BECKMAN & SONS, Norton
 BRANNAN & REINHARDT, Timken
 BRANNAN & UMBERGER, Rozel
 OTTO BUNJES, St. Francis
 CLARENCE BUSSE & SONS, Bird City
 CORNWELL HEREFORD FARM, St. John
 PAUL A. DICK, Mt. Hope
 HAROLD GINGRASS & SONS, Sedgwick
 GRAVER BROS., Rush Center
 HENRY HOLZWORTH, St. Francis
 FRITZ KERBS & SONS, Otis
 FRED LAMB & SONS, Macksville

LEITCH HEREFORD FARMS, Bunker Hill
 JOHN M. LEWIS & SONS, Larned
 B. L. MEADOR, Larned
 CROHL MEDLEY & SONS, Tampa
 NEW EDEN POLLED HEREFORDS, Wilmore
 ARTHUR MOLZ, Kiowa
 JOHN MURRAY, Bird City
 VIC ROTH, Hays
 WM. SITES & SONS, Manter
 HARRY SMITH & SON, Richfield
 PAUL WALTER & SONS, St. Francis
 WELCH BROS., Garfield
 ARTHUR WITTORFF & SONS, Inman

For catalogs and information, write

VIC ROTH, Sec.-Sale Mgr., Box 702, Hays, Kan.

Judge: ANDY SCHOEN, Lenora

Auctioneer: Freddie Chandler

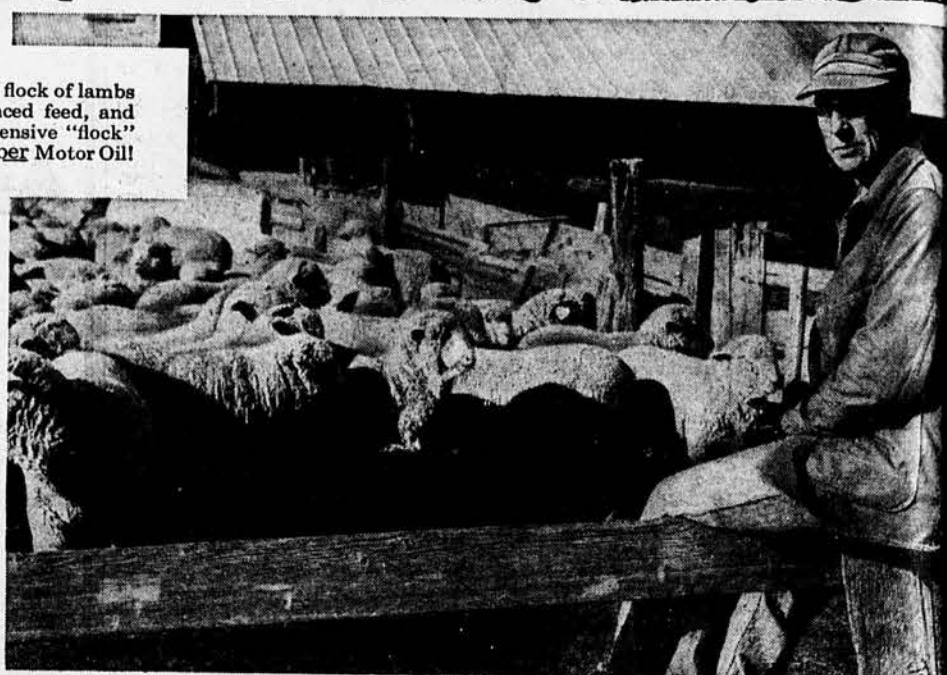
Mike Wilson for Kansas Farmer



THE TANK TRUCK



Left . . . Laurence Mertz protects his flock of lambs by giving them good shelter, balanced feed, and proper vaccines. He protects his extensive "flock" of farm machinery with Conoco Super Motor Oil!



When it's Lambing Time in Kansas.

TWO OF THE BUSIEST MEN in Kansas are Sherman Mertz and his son, Laurence, when it's lambing time on their 1,500-acre farm near Wamego, Kansas.

The Mertzs started feeding lambs in the early Twenties, when cattle didn't pay out. They have established a fine big flock, and have reduced worry and loss by protecting their animals with the finest of sheds and run-yards and the proper feed formula.

Their feed yard is equipped with overhead feed carriers they designed themselves . . . the carriers dump ground feed only into empty feeders. The ration, largely Kaffir-corn, is ground fresh at least every 2 days. Laurence says that by this kind of feeding, lambs can be marketed with a 40 to 50 pound gain.

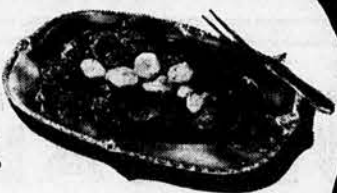
For over 5 years, Laurence has used Conoco Products in all his equipment, which today includes 5 tractors, 2 combines, 3 trucks and an automobile. Here's what he says about Conoco Super Motor Oil . . .

"I have used Conoco Super from the time it was introduced. Conoco Super is far supe-

rior to any oil I have used. It keeps motors clean. In all my years of tearing down motors, I have never seen motors so clean and in such good condition . . . and with less wear!"

Mr. Mertz has found that the best way to get the most from his sheep is to give them the best protection. He believes that the way to get the best from his automotive equipment is to give it the protection of Conoco Super Motor Oil. Why don't you be sure you are getting all your equipment can produce by changing to Conoco Super Motor Oil and the other famous Conoco farm products? Call your Conoco Man, today!

Swiss Steak



. . . by Mrs. Philip J. Setright
Box 503, Rawlins, Wyoming

2 lbs. roundsteak in serving pieces	3 T. horseradish
2 T. flour	2 T. fat
1 medium onion, chopped	1/2 cup water
	salt and pepper

Pound steak, season and flour. Heat fat, brown steak on both sides. Add onion, horseradish and water. Cover and simmer slowly 1 hour or until tender. Serves 6.

Shears For Recipes!

Send your favorite recipes to Mrs. Annie Lee Wheeler, Dept. E, Conoco Cafeteria, Ponca City, Oklahoma. A \$7.50 pair of Wiss Pinking Shears awarded for every recipe published with your name. All recipes become property of Continental Oil Company.

Why a "Heavy Duty" Oil?

When tractors plow or do other heavy duty work, engines operate at very high temperatures and gummy resins form . . . but the "cleaning" action of a "heavy duty", detergent oil keeps resins from depositing on rings and pistons. When your tractor is doing light work like powering a hammermill, you still need a heavy duty oil. When your engine runs cool, moisture condenses and a gummy residue forms when the fuel is not all burned up. Heavy duty detergents in Conoco HD Oil and Conoco Super Motor Oil disperse moisture, stop sludge accumulation and prevent ring sticking. Remember—they're both Heavy Duty to help keep your engine new and clean.



"Repair Bills I Don't Have"

Mr. F. M. Gorka of Rosenberg, Texas, uses 6 tractors and many pieces of machinery, including hay baler, cement mixer, and cattle spraying machine. "I have been a 100% user of Conoco Products since 1943," says Mr. Gorka, "and repair bills I don't have!"



Creep Gate!



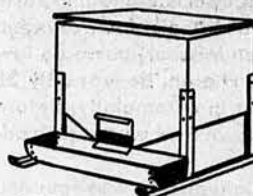
"For a practical gate on calf creep," says Cliff Burton, Pecan Valley Farm, Coffeyville, Kansas, "bolt upper and lower 2 x 6's to posts at proper height. Calves can step between bars, yearlings can't crawl under or through this creep."

SAWS FOR IDEAS!

Send your original ideas to The Tank Truck, Dept. E, Continental Oil Company, Ponca City, Oklahoma, and get a genuine \$10.25 D-15 Henry Disston Hand Saw for every idea that's printed!

Combine Cafeteria!

Mount bin from old combine on angle-iron skids and fix feed gate at proper opening. Use 1/2 hot-water tank for trough. Make lid for bin. Elmer Dux, R.3. Fairbury, Nebr.



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CONOCO GASOLINES • CONOCO HD OIL
CONOCO KEROSENE • CONOCO TRANSMISSION
CONOCO TRACTOR FUEL • CONOCO PRESSURE LUBRICANTS
CONOCO DIESEL FUEL • CONOCO Super MOTOR OIL
CONTINENTAL OIL COMPANY