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Kansas Farmer



HOGS MADE MORE money on the investment in 1952 than anything else on his farm, says Clarence Abbett, of Doniphan. Here driving hogs up from the creek are, left to right, J. West, Doniphan county agent, Clarence Abbett, Betty Abbett and Larry Abbett.

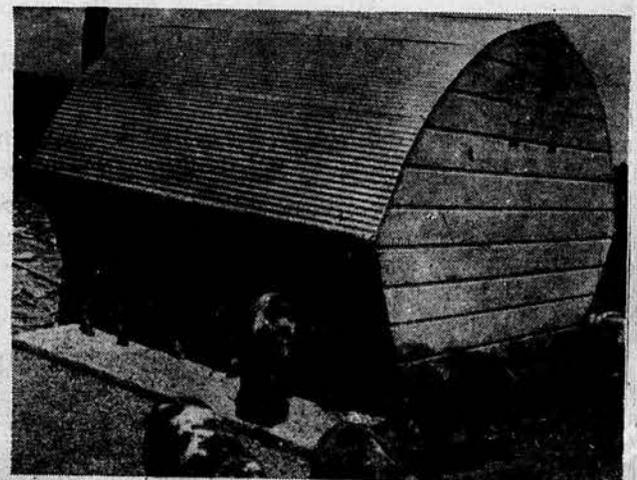
Hog Business Is Looking Up

"My hogs paid a better return on my investment than anything else I raised," said Clarence Abbett, Doniphan county

FARMERS who are set up to raise hogs and who weathered 1952 are glad they didn't get out of the hog business. Just as *Kansas Farmer* predicted last January, 1953 is proving to be a "hog year." Prices farmers are paid on the market are up, while feed costs have declined. A further [Continued on Page 30]

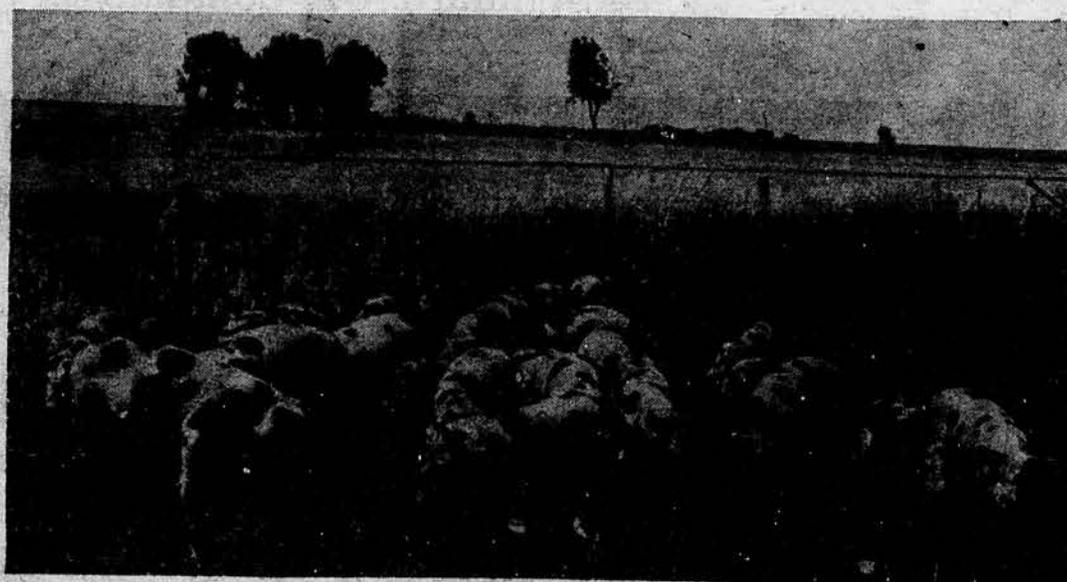


CHECKING HIS protein feeder is Shannon Nickelson, who is handling hogs on a stock-share lease with his landlord, Harlan Deaver, in Brown county.



BIGGEST LABORSAYER (above) used by Mr. Deaver and Mr. Nickelson is this 140-bushel self-feeder. Minerals and salt are fed in small concrete basins, and self-feeders are on a concrete feeding floor to avoid mud.

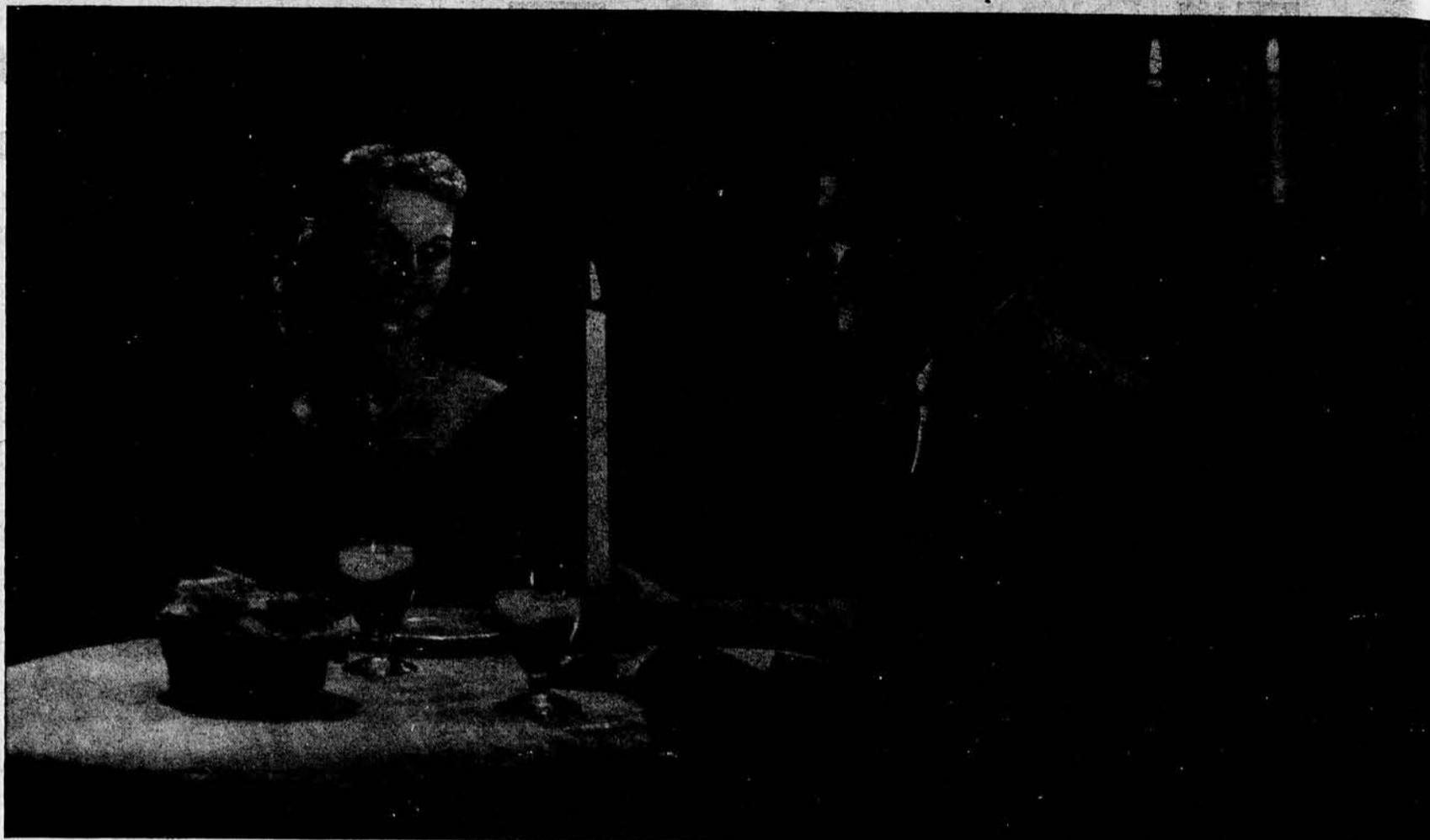
PASTURE IS (at left) counted on heavily on Deaver farm. Here hogs are on alfalfa pasture in July. They use rye pasture in spring, Sudan and alfalfa in summer and alfalfa in fall.



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- Their Favorite Recipes Page 26



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THE MAGIC OF CANDLELIGHT has lived through the years as a symbol of romance . . . as an aura for the bright dreams of happy engaged couples like Kathryn Teschner and Arbel Ruhlander. "Archie,"

who recently entered military service, is on leave from Standard Oil's General Offices in Chicago where Kathie still works. To them, candlelight may always mean this special moment.

What does candlelight mean to you?

WHAT GENTLE MEMORIES return with the magic of candlelight? Dinner for two? Your first big date?

Though a candle's fragile light is traditional background for romance, it also turns our thoughts to something quite different—to an oil well pumping barrels of crude oil and even to the price you pay for gasoline.

Why? Because candles symbolize to us hundreds of other less romantic products—from industrial chemicals to crab grass spray to highway asphalt—that are derived from petroleum. Some are made from material that otherwise might have little or no commercial value. As just one example of the efficient and economical development of by-products, in the refining process Standard Oil removes wax from lubricating oil and uses it to make candles.

And such activities are only a few of the many which

help to keep the price you pay for gasoline surprisingly low. In fact, gasoline sells today at about the same price that it did in 1925. Only taxes are higher. And two gallons do the work that three did in 1925.

Steady improvement is vital when so many oil companies are competing for your trade. Standard Oil in recent years has plowed back two-thirds of its profits into expanded and better facilities of all kinds—exploration, drilling, research, refining, distribution.

And if—as a remote by-product of our larger efforts—a pretty girl looks even prettier by candlelight, we're not too big or too busy to be pleased.

Standard Oil Company



IT MAY SEEM LIKE MAGIC that our gasoline is uniformly dependable in quality wherever and whenever you buy it. That is the result of the efforts of more than 51,000 employees of Standard Oil and its subsidiary companies. Back of each employee—like Harold Brown of our Neodesha refinery—helping each to produce more and earn more, is an average investment of over \$34,000 in tools and equipment.



IT MAY SEEM LIKE MAGIC that you can buy gasoline at about the same price as in 1925, excluding the tax—and that two gallons today do the work of three 1925 gallons. Over 800 scientists, engineers, and research people, like Robert Svetic of our Whiting, Indiana, laboratories, work to improve quality and to hold prices down by developing more efficient production and manufacturing methods.



IT MAY SEEM LIKE MAGIC to find oil deep underground but it has taken months of work by geologists and by engineers like J. G. Sanders, here surveying in Louisiana. Drilling a well in an unproved area costs several hundred thousand dollars with the odds heavily against finding oil in commercial quantities. Despite this, Standard Oil and its subsidiary companies continually search for new oil fields.



Morton County: V. A. Riegel and son, Great Bend, recently leveled 60 acres of their farm, south of the Arkansas river, for irrigation. Their new power unit uses LP Gas to run an 8-hp pump which flows 1,200 gallons of water per minute. They flood 15 acres Sudan, 9 acres alfalfa and bromegrass, 26 acres atlas sorgo, 10 acres alfalfa and vetch.

The Riegels milk about 25 cows in their dairy, use a walk-thru milking parlor, are on DHIA and are using artificial breeding in their herd.

Morton County: Loyal Otte, Great Bend, has one of the best stands of alfalfa sorgo seen in the county. His 10-acre field north of his farmstead was seeded at rate of 10 pounds per acre with a planter using a small-size seed plate. The field, in alfalfa 2 years old, had an application of 50 pounds of 20-0 when sorgo was seeded. Mr. Otte uses a curled length of baling wire in the feed spout to make seed fall more evenly, about 3/8-inch apart, in the row. The preceding alfalfa crop had the equivalent effect of a 200-pound application of nitrogen. His down row in the middle of field was planted to sorgo.

Johnson County: George Dana, Gardner, has developed a cattle and hog pen. He wanted a gate that would let hogs in the lot and let cattle go out as they wanted to pasture. He hit upon the idea that a roller gate might work. He bought an old discarded hot water tank for \$1 and attached it with stub axles on each side to a couple of short poles driven into the ground.

This hot water tank had a clearance of about 1/2 inch from the ground and would roll as hogs hit it or touched it. Of course, tank was placed in horizontal position. It's been used successfully. Mr. Dana has Hampshire hogs.

German County: Selling graded lambs on a spring market (a practice favored by several producers here are following) turned out well again this year. The Evans Banbury, county agent, reports four shipments totaling 1,728 head of graded lambs were marketed between April 6 and June 15. Prices received: \$26 (April 6); \$27.25 (April 13); \$28.50 (May 18) and \$27 (June 15).

Archer V. Marshall, Sherman county, agent.

won sweepstakes prize in the Kansas Market Lamb Production Contest for 1951-52 season. Last fall he had a 97 per cent lamb crop.

Morton County: Arden Nusser purchased 4 registered Holstein cows at the Cranson dispersal sale, at La Junta, Colo., recently.

Morton County: Recent rains indicate that drouth which hit the government pasture project in the county will revive grass sufficiently that cattle will be allowed to graze most, if not all, of the area as planned in the spring cattle allotments.

Elk County: Paul Brown, Howard, says "Brome grass has paid off at least 3 times better than wheat ever did since I turned my old crop ground back to grass." He harvested 60 acres of seed that yielded 250 pounds per acre on unfertilized ground. Brome was pastured during winter and for 60 days this spring, then a ton of hay to the acre was baled.

Elk County: Three years ago Henry Kling, Howard, enlisted the aid of the county SCS District to help him utilize a 4-acre piece of ground too wet to farm. A diversion ditch was built to catch hillside water. That 41 bushels of wheat per acre harvested this year by Mr. Kling is a good yield for any land too wet to farm.

Woodson County Gets New Fair Buildings

Woodson county 4-H'ers are happy about their new 4-H Community Buildings at the county fairgrounds at Yates Center, to be dedicated August 18 during the county fair, Aug. 18 to 20. Three years ago the Yates Center Lions Club became interested in the project and raised funds. A 20-acre tract was purchased. Later, county funds aided in further construction. In addition to a main building, there are livestock sheds and the local Chamber of Commerce provided for 50 pens in the swine and sheep shed.

Civic and county organizations are contributing to furnish the main building. Home Demonstration units have plans for furnishing the kitchen and some tables. Clubs have contributed a piano, chairs, War Memorial Plaque, and other items. The Yates Center Saddle Club constructed a fenced oval area for 4-H Club exercises and a rodeo. A ball diamond was set up by the Lions Club.

Members and leaders and Extension workers have expressed their thanks for the fine co-operation of people and clubs for the outstanding support of 4-H work and providing useful and attractive buildings and equipment.

Mabel R. Smith Returns to Kansas

Returning to Kansas to rejoin the Kansas State College Agricultural Extension service staff is Mabel R. Smith, former assistant state 4-H Club leader. Effective June 1, she resigned her position as manager of the 4-H Supply Department and home economist of the National Committee on 4-H boys and girls programs, Chicago. She held the position 11 years, leaving Kansas to accept that work. Miss Smith is now home demonstration agent in Rice county at Lyons.

"Ceresan" Made This Difference



Thin stand from untreated seed.



Thick stand from identical seed treated with "Ceresan."

More farmers make more profits by planting seed treated with "Ceresan" because year after year...

"Ceresan" Helps Grain Yield More

You can smell the difference! "Ceresan" seed disinfectant gives every kernel a protective coat that kills disease spores on the seed. In addition, "Ceresan" slowly releases a disease-killing vapor that spreads throughout bag or bin. The distinctive smell of "Ceresan" on seed tells you that "Ceresan" is at work disinfecting your seed for bigger yields.

You can see the difference! Good weather or bad, "Ceresan" guards every kernel you plant against seed rot, and protects the young sprouts from seedling blight. That's why you'll see thicker, stronger stands that promise top yield.

You will harvest the difference! With "Ceresan", it is not uncommon to get up to 7 extra bushels per acre of clean grain. In bad years, it may save an entire crop. And you get cleaner grain, too! "Ceresan" assures exceptional control of stinking smut of wheat; stripe and brown and covered smut of barley. Rye and oats also grow thicker and yield better when treated with "Ceresan".

Ask your seed dealer to use

Ceresan®

Seed Disinfectant and Protectant



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BETTER THINGS FOR BETTER LIVING
... THROUGH CHEMISTRY

Grass and Legumes grow thicker and stronger when you treat the seed with Arasan®—remember "Ceresan" for small grains, "Arasan" for grass and legumes.

On all chemicals always follow directions for application. Where warning or caution statements on use of the product are given, read them carefully.

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Continuing Mail & Breeze

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PASTURE SPRAYING left this forest of dead sumac on John Goodbody farm, Bourbon county. Note how grass is coming back in area being checked by Fred S. Reynolds, work unit conservationist.



HERE MRS. VERNON BOWMAN, Anderson county, demonstrates stanchion and door controls in an elevated-stall milking parlor. This laborsaving vice means dairy farm efficiency.



A BIG LABORSAVER is this new-type baled hay loader being used by Tom Holmes, Garnett.

Maybe These Ideas Will Solve Your Problem

They tell of better way to work soil, improved pasture, reduced haying labor, lower beef costs, easier dairying, bringing back gully land, and larger lamb crops

By **DICK MANN**

FALLING farm prices and rising farm costs always cause trouble. Actually, today's basic problems are the same as they always were. During times of inflation and easier profits it is easy to forget those same old problems are lurking in the background, ready to reduce profits when conditions are less favorable.

Time has come now to watch all corners a little more closely. A recent check of farms in several Eastern Kansas counties indicates you are doing that. Let's call on a few of these farmers to see what their problems are, what

they are doing about them, and whether the attempts to find solutions would work on your farm.

A certified seed grower in Woodson county, Merl Barnes, is still looking for the best way to work his soil. Subsoil on his farm has a tendency to form hardpan, a problem common to the area.

"I'm running some tillage tests right now," says Mr. Barnes, "comparing plowing, chiseling, subsoiling and just working down the topsoil with a field cultivator. Mostly, though, I'm trying deep tillage combined with stubble mulching and fertilization to try to boost crop yields."

One system being used by Mr. Barnes that looked good is a combination. He goes over the field first with a subsoiler that splits the soil open at 18-inch intervals. Then, with a special 2-sweep chisel he made by bolting two sharpened angle irons onto his hydraulic lift frame, he splits the rows and finally works down the topsoil with a disk. This system opens up the subsoil, yet keeps crop residue at or near the surface.

Like many farmers in Southeast Kansas, John Goodbody, of Bourbon county, had a pasture that was badly infested with sumac, buckbrush and other bushy plants. In early June of 1951 he had his pastures airplane sprayed with 1 pound of 2,4-D an acre. Then in spring of 1952 the pastures were again sprayed with a mixture containing $\frac{2}{3}$ pound of 2,4-D and $\frac{1}{3}$ pound of 2,4,5-T.

The pasture we visited this June had veritable forests of dead sumac and grass was coming back strong in those areas. Fred S. Reynolds, Bourbon county work unit conservationist, says Mr. Goodbody had been getting some pasture from the area, but that 1 or 2 more sprayings would be needed to kill buckbrush and dogwood that had survived the first 2 sprayings.

[Continued on Page 5]



HERE ARE SOME GOOD LAMBS that topped the market on truck-ins last spring for Clayton Peck, right, Woodson county. County Agent Orville Denton is helping Mr. Peck get lambs into shed on farm.

Kansas Farmer

News and Comment

For Strong Campaign

STATE-WIDE DAIRY meeting in Topeka, July brought 200 delegates from many counties consider whether to "check-off" a half-cent each pound of butterfat, or 2 cents a hundred pounds of milk, to create a huge advertising fund for milk and milk products. In probably the shortest meeting on record for such an important question, those present voted unanimously in favor. Kansas dairymen are ready to pay for the most aggressive advertising campaign the industry ever has backed. Earlier national meetings also approved the idea.

It is estimated Kansas dairymen could compute as much as \$470,000 toward selling dairy products to consumers. This is entirely a voluntary project. No dairyman can be forced to join; if he does join he can pull out anytime he wishes. Money will be accounted for by delegates of the Kansas Dairy Association, 50 per cent of it being used in Kansas, the other 50 per cent going to the American Dairy Association in Chicago for the nation-wide publicity campaign. If other states join in as well as Kansas, it looks as if there could be a 12-million-dollar fund ready to fight for the consumers' dollar.

Never a Dull Moment

HERE ARE GREAT things ahead for this country. That is as true today as it was back the turn of the century. Of the 10 top-valued industries in the United States today, only 4 are in existence just 53 years ago, the U. S. Chamber of Commerce points out. Probably far more than 10 new ones will be developed in the next 25 years. How many of them will use farm products no one knows. We do know industry will continue to make progress—and will continue to need agriculture.

Never a dull year in farming circles, either. Better crop varieties, higher yields, greatly improved quality in livestock, soil-building crop rotations have marched along thru the years right in step with progress in industry. Equally important advances will be made in the future.

How badly does industry need agriculture? A recent bulletin from Corn Industries Research Foundation, Inc., says in part: "... thru the corn harvest, starch finds its way into many food and non-food products a mere listing of the categories would fill pages ... you can and do eat cornstarch and its derivatives, every day of your life, in foods which include bread and beverages, canned goods and chewing gum, candy and desserts, ice cream and pie fillings ...

So many non-food items in everyday use contain cornstarch, or have depended on cornstarch at some step of their manufacture, the average American is never more than a few inches away



"You take him—we'll take his glove."

from it, thruout his lifetime. Starch not only helps to feed you; it helps to clothe and shelter you, educate and entertain you ...

"Within arm's reach of virtually every man, woman and child in America at this moment are a dozen or more items containing cornstarch, or made with the help of cornstarch, whether he is asleep or awake, at work or at play, at home or traveling."

And remember, starch is only one part of the kernel of corn you grow on your farm. Corn goes into a multitude of other products. How many industries must depend on corn for their existence?

More Flower Articles

HERE IS WORD from a friend of yours, Frank Payne, who has written so many interesting flower-growing articles for *Kansas Farmer*. Happy to tell you he will start another series in the September 5, 1953, issue. He will tell us about a dozen different plants and flowers. So watch for the first of this new series in the September 5, issue of *Kansas Farmer*.

Doesn't this sound familiar? Mr. Payne writes, "Hard to get back into the collar upon returning from a fishing trip up in Northern Minnesota! All the time I was up there yanking out walleyes and Northerns and roughing it, I was never tired. But just as soon as we got home I got tired right away. First time in many years I could take a summer vacation. We were on Upper Red Lake, just 32 miles from the Canadian border. Spent a day on sight-seeing trip in Canada, was real interesting. So cool in Minnesota had to sleep under 2 blankets, built wood fire in stove of morning."

Still journeying about, he spent a week in Missouri, has 2 weeks scheduled soon for Cleveland, Ohio. And in the Fall he is planning a Florida and Cuba trip. What do you suppose he will be talking about? Flowers, of course. He sends regards to all of his *Kansas Farmer* flower friends. He will be with you in September 5, issue.

Just the Right Trip

WE KNOW from your letters you have enjoyed traveling over the United States with Frances R. Williams, our farm-woman roving' correspondent. She stopped in *Kansas Farmer* office the other day, starting on another trip. She and Mr. Williams are out to see more sights and you will read about them in her "We Are Seeing America" series still appearing now and then in *Kansas Farmer*.

Mrs. Williams has had so many letters asking how to plan trips, where to go, what to see, what to take along, we decided she may be able to help many other Kansas farm families. So after September 1, 1953, a new type of vacation service will be offered by *Kansas Farmer*. Thru it Mrs. Williams will help you and your family plan exactly the kind of vacation trip you want, winter or summer.

Here is what to do if you want Mrs. Williams to help plan a trip for you; a vacation that will fit your family, your pocketbook and your time. Write a letter to her, addressed to the *Kansas Farmer* office, Topeka, telling her where you wish to go—north, south, east or west. Time you have to spend—days, weeks or months. When you wish to go—Fall, Winter, Spring, or Summer. What kind of trip—camping in national or state parks, or trailer travel. Will you stay in motels? Will you cook some or all of your meals? Will you eat in restaurants or cafes? What are your interests—historical, scenic, sports, foods, arts, museums? Give ages of members of your families. It will help if you

"A man has reached the Age of Wisdom when he's resigned to his age."

"Some mothers believe Heaven must be a great deal like a home after all the children have left for school and husband to his work!"

"Sister Mary likes her boy friend's attentions but won't marry him because she likes his attentions!"

"A wife feels so much better after a good cry, not so much because it gets things out of her system, but it gets so much out of her husband!"

"Examining Admiral (to naval officer candidate): 'Name 3 great admirals!'
"Candidate: 'Drake, Nelson, and, I beg your pardon, sir, I didn't catch your name.'"

"The weaker sex is often the stronger sex because of the weakness of the stronger sex for the weaker sex."

"I don't know whether or not I like Kipling," said the giddy young thing to the serious young swain, "Just how do you kipple?"

"The world is full of cactus, but we don't have to sit on it!—Will Foley."

wish to indicate how much you wish to spend. From the interesting travel stories Mrs. Williams has written, you know she can outline a most worth-while trip for you and your family. Drop her a letter in care of *Kansas Farmer*, Topeka, and you will hear from her soon.

Wheat AND Livestock

KANSAS WHEAT acreage allotment for the 1954 crop, to be seeded this fall, naturally is largest in the U. S. Secretary of Agriculture Ezra Benson set it at 11,874,832 acres. You are quite aware Kansas is the wheat state. But how would you compare our wheat income with that from livestock?

Briefly, 1952 and 1948 were the only years since 1924 that livestock income didn't exceed the income from wheat and all other crops. Kansas farmers received \$1,403,868,000 from sale of all products in 1952. Out of that, cash receipts from crops totaled \$741,564,000 while cash receipts from livestock and livestock products totaled \$650,344,000. Incidentally, Kansas was fifth in 1952 cash receipts, being led only by California, Iowa, Texas and Illinois. We rank fifth in beef, tenth in swine, eleventh in sheep, eighteenth in chickens as of last year.

The point is that while wheat is tremendously important to Kansas, it must split honors with livestock. And Kansas will be better off in the future with even more livestock on more farms than at present.



"Of course I know what C.O.D. means—Call on Daddy!"



More ears, fewer husks, faster picking

Get what you grow! Go into your corn with a **NEW IDEA** Picker and pick it clean. Fill the wagon box quickly with full-grained ears.

Watch those floating points and low-reaching gathering chains skim along the ground — lifting and funneling down corn or tangled and bent stalks into the snapping rolls.

Is your corn damp? Dry? Brittle? Tough? Set your snapping rolls accordingly. There's a wide range of adjustments available for any crop or field condition. With a **NEW IDEA** you're set to get the most ears snapped and delivered to the husking rolls. Six floating presser wheels and adjustable rolls work together to give you the cleanest husking you've ever seen. Shelling is kept to a minimum. What little shelled corn there is gets caught by the shelled corn saver. It is separated from the husks and put into the wagon box.

You get this sort of performance at the rate of 8 to 12 acres a day — day after day, year after year, with a **NEW IDEA** One-Row Picker. Or increase your daily picking up to as much as 18 acres a day with a **NEW IDEA** Two-Row Picker.

Your **NEW IDEA** dealer can point out to you exactly why you get this sort of steady, efficient service with these rugged pickers. See and compare . . . and you'll know why it's such a good idea to own a **NEW IDEA**.



New Idea Two-Row Picker —

1952 Indiana State Champion. Plenty of capacity for the big picking jobs.

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Division **AVCO**
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Name _____

Address _____

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- Corn Pickers & Snappers
- All-Purpose Elevators
- All-Steel Wagons
- Steel Wagon Boxes
- Stalk Shredders
- Manure Spreaders
- Tractor Mowers
- Rakes & Tedders
- Hay Balers
- Hydraulic Loaders & attachments
- I farm _____ acres.
- I go to school.

What Causes Leaves to Turn Yellow and How to "Cure" the Trouble

By **WILLIAM G. AMSTEIN**, Kansas State College

CHLOROSIS OR YELLOWING of leaves, a common problem in many Central and Western Kansas areas, is often due to the unavailability of iron which is needed for green coloring. It may be due to absence of other minerals, or to some other factor. In many places, especially where soils are of high alkalinity, fruit and shade trees, lawns, vegetables as well as numerous ornamental shrubs may be badly yellowed and sick because of "lime chlorosis" as it is called. Lime or high pH of the soil tends to lock up the iron so plants cannot get it and the leaves become chlorotic.

Success in treating thru application of iron salts to affected plants either by soil applications, spraying, or by inserting salts in the trees has often been disappointing. In some cases good results are obtained, in others failure. The "cures" are usually at best of a temporary nature.

Now Hear About "Chelates"

Lately we have been hearing of some new complex organic compounds called "chelates" to be used for combating chlorosis and certain other deficiency troubles in plants. There are chelated compounds of iron, copper, zinc, manganese, magnesium, molybdenum on the market today. Small amounts of iron chelate have shown great promise in correcting iron chlorosis with citrus trees in Florida on acid soils. They seem not to be as effective on alkaline soils.

The following paragraphs may be of interest in this connection:

"These chelating materials have long been used in industry to tie up heavy metal ions in certain processes where the heavy metals are detrimental. These same materials are being used to supply heavy metals to plants. Since the metals do not ionize, they are not tied up by the soil.

"Apparently the whole organic molecule is absorbed by the plant and metal ions are released inside the plant. The chemistry of these compounds is complex and it will be some time before the soil-plant relationships are fully understood.

"These chelated minor elements are effective in smaller amounts than our commonly used minor element sources. They must be used in large amounts since the chelating compounds alone can be toxic. The danger of minor element toxicity has not been altered by these materials but another type of toxicity has been added. Another reason for low rates of application is the cost. The chelates are more expensive than our common minor element sources but if small amounts are effective they may be able to compete on a price basis.

"These materials are probably worth trying where minor element deficiencies occur. The rate of application should not exceed 20 pounds per acre in most cases. Somewhat higher rates may be used on alkaline soils. Some of our minor element deficiencies may be corrected by maintaining the proper soil reaction and we do not recommend applications of minor elements unless they are needed. These new materials should be used to correct specific deficiencies and not used on soils are not known to need minor elements."

Until you locate some of these chelated minor elements to try, ferrous sulfate sold under the trade name copperas, can be used to treat chlorosis. You can use 1½ pounds of ferrous sulfate per 1,000 square feet of bluegrass. On peach trees, ¼ ounce per gallon of water; ornamentals, 1 ounce per gallon of water; and apple trees, 1 per cent solution (1½ ounces per gallon of water); grape vines and strawberries, 2 per cent solution or 3 ounces per gallon of water.

Annual Eastern Kansas Judging School Draws Record Attendance

LEARNING MORE about judging livestock, 250 boys and girls from 22 counties attended the 8th annual Eastern Kansas Judging School in the Topeka area, July 30 and 31. This record-breaking group were representatives of 4-H and FFA clubs.

Hogs, cattle, sheep and horses were inspected and studied at several farms, ranches and Free Fair grounds. Crops judging also was on the program, with

9 classes of corn, sorghums, oats, alfalfa, wheat and clovers. These Kansas State College Extension men helped with activities: livestock, Wm. Moyer, livestock specialist; dairy, J. Foreman, dairy specialist; crops, L. Willoughby, crops specialist.

The Topeka Chamber of Commerce agricultural division, hosts at the event gave a watermelon feed Thursday at a local camp where youths stay.

COOLER AT MILKING TIME



AIR CONDITIONER doesn't materially increase milk production, but improves spirits of Homer L. French and his family, of Kingman county, at milking time. Unit is homemade, has a ¼-horse motor, a squirrel-cage fan and water pump. It is based on packing. Formerly mounted on the house, it was put on barn when replaced by a newer model.



Dean Taeye is one of Nebraska's most successful—and busiest—young farmers. He operates 270 acres, milks 12 cows, and feeds out about 240 hogs and 50 cattle each year. Mrs. Taeye, he says, is really the poultry boss. And both are mighty proud of Kenner, 4, who says he's going to be a farmer, like Dad, when he grows up!

OUR EGG PROFIT FROM 350 HENS WAS \$1,379 NET WITH MOORMAN'S

—Say Mr. and Mrs. Dean Taeye, Cuming County, Nebraska

"We made a net profit of \$1,379.60 over feed costs on our average of 350 hens in only 9 months," say Mr. and Mrs. Taeye, of Cuming County, Neb.

"We think that's pretty good, because it's a profit of \$3.94 on each hen. But, we couldn't have done it without balancing our own corn, oats, skim milk and alfalfa hay with MoorMan's Mintrate.*

"We got 400 sexed pullets on Feb. 28 last year, and started them on MoorMan's CoxiCurb* Mintrate for Chicks and our own corn. When they were five months old, we switched them to a ration of MoorMan's Poultry Mintrate and our corn, oats, skim milk and alfalfa hay. They started laying at 5½ months, and on Sept. 1, when they were a couple of days over 6 months old, we gathered 250 eggs from the 375 pullets that were housed. We culled them down to 350 layers on Oct. 15, and had 325 left on June 1.

"In figuring up our feed costs for the laying period we made a charge of \$1.40 a bu. for corn, 70¢ for oats, 3¢ a gal. for skim milk, and \$20 a ton for hay. Our total feed costs for the 9 months were \$766.80.

"During that time we had all the eggs for our own use we wanted, and sold 5,649 dozen. They brought us \$2,146.40. Subtracting our feed cost of \$766.80 left \$1,379.60 profit."

MoorMan's Poultry Mintrate is a true concentrate — a highly-concentrated blend of proteins, minerals and vitamins developed especially for laying hens. This blend explodes energy in your home-grown feeds, makes them extra rich in feeding value, and gives you a low-cost ration that's loaded with egg-making power.

That's why thousands, like Mr. and Mrs. Taeye, say they get more eggs—at much lower feed costs—than ever before. So start your pullets on Poultry Mintrate this fall, and prove to yourself how much more net profits you, too, can make. Your MoorMan Man will be glad to help you. If no MoorMan Man calls, write MoorMan Mfg. Co., Dept., J 3-8, Quincy, Ill.

MoorMan's^{*}
(Since 1885)

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Orville Rule, Iowa County, Wis.: "Our DHIA records proved the value of supplementing our own grain and forage with MoorMan's Mintrate for dairy cows. In the first year on MoorMan's, one cow's butterfat record jumped from 255 to 351 lbs. Some others were 287 to 353, 244 to 310, and 278 to 345. Production is still increasing."



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Crop tests in your state prove it!

Bigger profits from wheat and other fall-planted small grains depend on getting bigger yields from the same acreage. Tests show that if you use a high nitrogen fertilizer under favorable conditions you can greatly increase the net profits from your land.

It's **DRY-CURED** and **SCREENED** to help it remain **FREE FLOWING**

Go to your local fertilizer dealer today and tell him you want Phillips 66 Ammonium Sulfate. You'll appreciate what *dry-curing* does to prevent caking. Phillips 66 Ammonium Sulfate flows freely and distributes evenly and effectively. And it delivers a *guaranteed* nitrogen content of 21%.

Whether you grow row crops, small grains, seed grasses or pasture, you want higher yields—lower production costs—more net profit per acre. Phillips 66 Ammonium Sulfate helps you realize these goals.

Use Phillips 66 Ammonium Sulfate for top dressing . . . sidedressing . . . broadcasting . . . drilling or plow down. Packaged in 100-pound multiwall, moisture-resistant paper bags. Buy your supply of Phillips 66 Ammonium Sulfate from your fertilizer dealer today. Look for the orange and black Phillips 66 Shield.

Use Nitrogen for Higher Small Grain Yields

Each bushel of wheat you raise removes about a pound and a quarter of nitrogen from your soil. That nitrogen plus phosphate and potash must be replaced to maintain high yields of succeeding crops. Nitrogen will make it possible for wheat and other small grains to produce more and bigger heads per plant, more plants per acre. This means more bushels of better quality grain . . . more net profit per acre. Broadcast Phillips 66 Ammonium Sulfate before preparing your seedbed or apply before you seed. Use 150 to 200 pounds per acre.

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21%**

PHILLIPS CHEMICAL COMPANY

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New Disease of Corn Strikes

By CLAUDE L. KING, Kansas State College Extension Plant Pathologist



THE BACTERIA may cause much dead white leaf tissue and stunted plants as shown in this picture, cause only brown streaks, or may rot down into the leaf whorl preventing formation of an ear.

A RATHER NEW corn disease which appeared in Kansas this year is of concern to many corn growers and plant breeders. It is caused by the bacterium *Pseudomonas alba precipitens*, and the common name is bacterial leaf and stalk blight. It shows in the field as either dead white large patches on leaves or as brown streaks. In early stages the tissue is water-soaked in appearance and appears as if scalding water had been poured on the leaves. Many people may have thought it was sunscald or windburn.

This disease was first observed in Kansas in 1943 by Dr. S. M. Pady, now head of the department of botany and plant pathology at Kansas State. It was identified as caused by the specific bacterium about 1947. In about 1950 it was rather widespread and caused rather severe damage in some fields in at least Wabaunsee and Pottawatomie

Thank You

I still enjoy reading *Kansas Farmer* very much and get lots of good ideas in my Home Demonstration Unit work.—Mrs. E. A. Thompson, Pawnee Co.

counties. In that year the bacterium not only killed some leaf tissue but rotted down into the whorl of new leaves coming out and the rot extended down into the stalk. This prevented ears forming on 30 per cent of the stalks in some fields. In other years since 1947 the disease has been widespread, but not considered severe except in this year 1953 in which leaves were severely affected in some fields and seemed to stunt some of the stalks.

There is no practical control known for the disease. It does not appear crop rotation will help because the disease may be in a field one year and not the next. Also, in most years the bacteria became inactive after a few days of producing damage and there was no further spread. No information of spraying experience has been reported from other states. Corn breeders are

attempting to develop resistance in hybrids. A few years ago the bacteria attacked a corn variety test near Wamego, but none of the many varieties in the test showed any resistance. The disease has been observed from Sedgwick county to extreme Northeast Kansas.

FRIEDMAN SHELBY WORK SHOES with Guaranteed Sweat-Resistant

BOL TAN[®] LEATHER Insoles



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Twice the Wear



SEE THE DIFFERENCE!

These insoles are from a single pair of shoes worn 7 months under most severe sweating conditions. The one at the left is a Bol Tan leather insole, still soft and pliable as shown by the cut section lifted for inspection.

The other is a conventional leather insole, cracked, curled and saw-edged from perspiration attack. It's unfit for further wear! So make sure you have Bol Tan sweat-resistant leather insoles in the work shoes you buy.

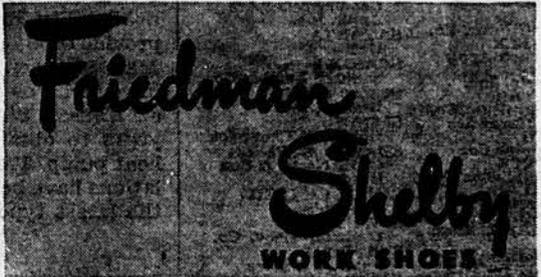
Just like finding an extra pair every time you buy work shoes built with *guaranteed* sweat-resistant Bol Tan leather insoles, shoes that should give you up to **TWICE THE WEAR!**

Let your dealer listed in this advertisement fit you with shoes that have the Bol Tan leather insole trade mark...and find out what this sweat-resistant leather insole can do for you.



Insist on this trade mark in the work shoes you buy

BOL TAN leather insoles are SO GOOD we guarantee them.



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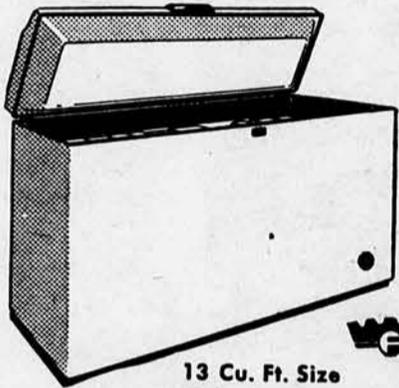
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Now That You Have Electricity

THIS TIME we talk about air conditioning. Cost of cooling your home is not greatly different from cost of heating, under average conditions. More and more, we see homes about Kansas with evidences of partial air conditioning sticking out of windows—so it can't be too outlandish a cost.

Methods vary. In the west one sees evaporative cooling for homes and offices, even a few barns. The relatively dry air makes this effective, altho moisture conveyed into the room may present a problem in mold and deterioration of some household goods.

We asked a western dealer what factor caused people to favor this. His only answer was cost. He foresaw, however, that before long demand for room and home air conditioning would undergo a sharp increase.

Some changes are coming about in equipment, too, we hear. Early models of air conditioners called for a water supply which was the means of transferring heat from the room. Newer models, in smaller sizes, now need only electricity and an opening to the outside of the house, the heat transfer being accomplished with air.

Word has it one company has produced about 200 air conditioning units for large buildings, offices, shops, which use the air transfer method and the success is marked.

Problems Similar to Heating

Efficiency in cooling a home offers some of the problems of efficient heating, chief of which is heat thievery of glass. A home may be completely insulated, attic to ground, yet heat loss thru large windows can nearly offset the insulation. In winter, heat goes outdoors, in hot days of summer it reverses.

This may be more or less true depending on which side of the house the windows are located, whether they are shaded, and whether double (storm) windows or double glazing are used. The new blue-green tinted glass is especially heat-resistant which adds to the efficiency of heating and cooling plants.

Development of the heat pump, an electrical device, shows promise of availability soon of a single unit to provide cooling and heating for a home. Manufacturers and electric utilities have had a co-operative venture going at Kansas State College for several years to obtain operating data on a heat pump. Three or four home installations have been made in Kansas, and the latest type unit is being installed

in a new experimental home being erected by the Kansas City Power and Light Company.

The heat pump is similar in operation to the electric refrigerator. In fact, employs a large version of the same unit with a reversing mechanism. In summer, it removes heat from the home, in winter it removes heat from the outside air (heat is there no matter what the temperature) and transfers it to the home. Simple, isn't it?

To keep tabs on baby from another room, a small electronic device near his crib requires no wiring. Plugged in it acts as a radio transmitter which can be tuned on any radio in the house, basement, yard or even a neighbor's. It also can serve as a means for signaling persons to communicate.

And still the uses for electric drills come in, uses beyond the simple duty of creating holes of various sizes. A simple stirring rod can be used to mix paint, as this column pointed out some time ago. Now we hear of suggestion for using the drill to dry paint roller—spin it dry on the end of an electric drill. Hold the roller in an empty paint can and flip the switch.

Show Many New Features

We mentioned the home being built by the Kansas City Power and Light Company in Johnson county, Kansas. The features are many and unique. There will be a 24-volt electric system to operate all light switches, demanding only a touch of the finger to send power to work. The many rooms will have adjustable levels of light, controlled from several points.

Master selectors to control the lighting and many appliances are to be located at several key points. One may turn on the coffee pot or the popcorn popper from the bedrooms, yard lights may be controlled from half a dozen points, selected illumination may be turned on from a distance.

A built-in television set can be remotely controlled from several points in the living room. An electronic eye will control night lighting levels on floors, and other "eyes" will operate night lights for additional safety in selected passages between rooms.

A light switch has been designed that will keep lights burning in pass-thru areas for 35 to 55 seconds after a person may turn the switch to off. This, for instance, will permit entry into the car and starting or passage from garage to house.

TOPS FEEDER CALF MARKET



FEEDER CALF MARKET has long been dominated by Barber county in Kansas. Gypsum hills provide ideal range for cow-calf herds and calves are largest single source of income for county. Fred Root and his son, Bill, own 1,000 acres and rent 2,400 acres. They have 100 purebred cows and 30 head of these grade animals. Root usually sells about 25 bulls each year and feeds out some calves. He has 800 acres under cultivation and has never bought a bundle of feed or a bale of hay since he started ranching in 1932.

BETTER MEALS

MORE SAVINGS



Here in the picture you see Mrs. Metsker starting a noon-day meal in her all-electric kitchen. In the Metsker home you'll find an electric range, two refrigerators, water system, water heater, food freezer, radio, TV set, sewing machine, toaster, irons, waffle iron, food mixer, lamps and small heaters. An especially prized possession for winter months is a pair of electric sheets.

"MY ALL-ELECTRIC KITCHEN IS MY PRIDE AND JOY"

—Mrs. John P. Metsker, Lone Star

Like thousands of other Kansas farm homemakers, Mrs. John P. Metsker knows and appreciates the advantages of modern electric living. She enjoys an all-electric kitchen in an all-electric farm home in Douglas county.

taken over many of the time-consuming routine tasks, saving her countless hours of hard monotonous work.

No wonder the Metskers appreciate this era of modern living on the farm thanks to electricity though miles away from the nearest city.

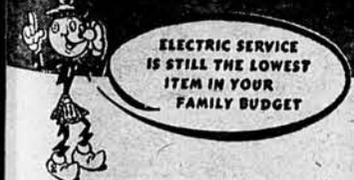
Mrs. Metsker finds that electricity has



John Metsker inspects the electric water system and water heater. (Below) The Metsker family: Mrs. Andrew Metsker, John's mother, Mrs. Metsker holding son John 18 months old, and Mr. Metsker holding 3-year-old Barbara in his arms. Picture was taken in front of the home.



Mr. Metsker's 16 purebred Holsteins provide a good share of the farm's income. They have just come from the dairy barn where electricity does a lot of the hard work—including the milking of course. A 6-can milk cooler is part of the equipment.



ELECTRIC SERVICE IS STILL THE LOWEST ITEM IN YOUR FAMILY BUDGET

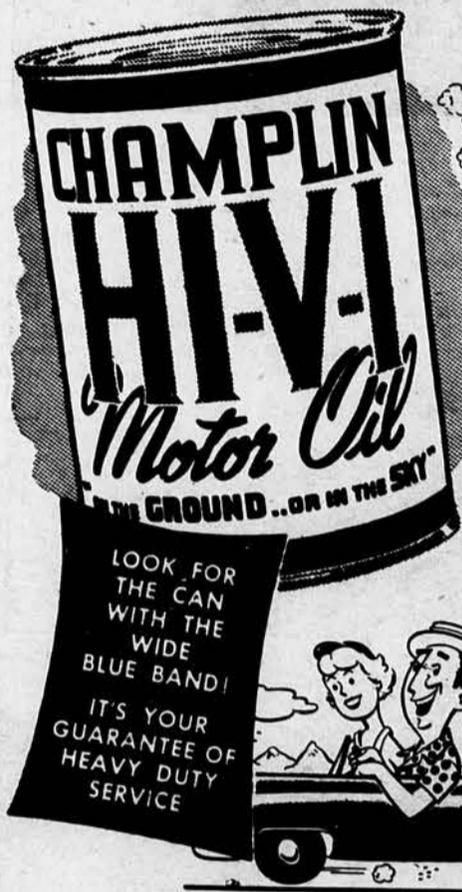
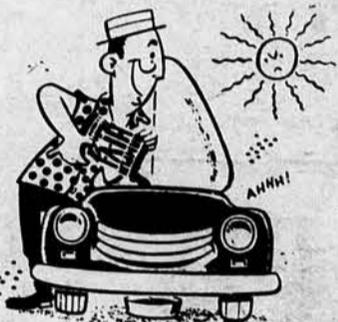
ELECTRIC LIGHT AND POWER COMPANIES IN KANSAS

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in
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Safeguard the engines in cars, trucks and tractors with HI-V-I Mil-0-2104 motor oil! It's habit-forming!

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All outstanding construction principles of larger MILLER industrial welders in Model 44 ... two welding current ranges ... for 115/230 volt power supply.
MODEL 44 Write for details.

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MECHANIZED BROILERS . . .

Automatic equipment eases chores in caring for birds, increases capacity of plant and lowers mortality

MECHANIZATION has come to the broiler house. Automatic equipment permits maximum production with a minimum of labor. For Norman Karsten, Brown county, assembly-line methods in broiler raising have stepped up maturity, lowered mortality and reduced work.

Mr. Karsten has a broiler house 50 by 130 feet. It is protected north and northwest by rising ground and well insulated against winter cold and summer heat. Positive ventilation is provided by an exhaust fan in the roof.

The building is heated by 2 warm-air units fueled by LP-Gas. Each unit has rated capacity of 210,000 BTU input and 168,000 output, and equipped with fan to insure heat distribution. They are suspended from loft girders—one in the south end, east of center, and one

from the machine around the circle and back again, if any is left. A timer controls operation of the chain. Karsten has it set to run for 15 minutes and then shut off for an equal period. Birds feed anywhere along the route.

Advantages of the device as listed by Mr. Karsten are: (1) time and labor saving for him; (2) more floor space because the trough does not take up much room as ordinary feeders; (3) because more birds can eat at a given time; (4) feed saving, because birds can't waste as much as they will from ordinary feeders; (5) better feed conversion, since he gets more pounds gain from a given weight than he has before. Height of trough is adjustable to size of birds.

Karsten has handled 10,000 birds at the plant. More rapid gains, resulting from the better feed conversion and improved rations, he believes would enable him to raise 4 batches a year compared with 3 for the former equipment. Mortality losses have been reduced to 3½ per cent compared with about 5 per cent formerly.

Don't Take a Chance!

HAVE YOU EVER thrown away a lighted match? Supposedly dead matches cause fires in a waste-paper basket, wood box, barn feed. It's dangerous. Don't take a chance!

in the north end, west of center. This installation, with fans blowing in opposite directions, insures complete warm air circulation. The units are thermostatically controlled, and there is automatic shutoff in case the pilot light goes off.

Mr. Karsten says he has maintained house temperature of 90 to 95 degrees for day old chicks when the weather outside was 15 degrees below zero. During brooding, barriers are set up so chicks can't stray too far away from the heat. Later they are allowed to roam the floor area. In hot weather fans are used for cooling the house.

During the first 2 weeks Karsten feeds and waters by hand. After that he puts the birds on automatic feeders and waterers. And here's where the big savings come.

The feeder mechanism is set in the south end, with a metal trough looping the floor. An endless chain carries feed

IFYE's From India Come to Kansas

Kansas rural families this summer are welcoming 5 International Farm Youth Exchange program delegates from India. The 5 IFYE's will remain here until October 17, studying on farms, agriculture, making friends with rural folks. They are living on farms in Sedgwick, Rice, Harvey, Marion and McPherson counties.

As part of the 2-way exchange, Kansas 4-H boys have gone to India. They are John Ferrell, Mount Hope, Frederick Funk, Hillsboro, and Duane Traylor, Eldorado. They will spend 6 months there.

Invest More Money

Kansans invested \$46,450,413 in U.S. Savings Bonds, Series E and H bonds during the first 6 months of 1953, an increase of 10 per cent over same period in 1952. Individual holdings of savings bonds in Kansas are in excess of 850 million dollars cash value.



KARSTEN'S broiler plant hugs the ground, provides maximum floor area with minimum of air space to be heated.



BACK SIDE of automatic heater showing fan and controls. It is of the type used in garages, shops, stores and industrial plants. Trough below Mr. Karsten's knees is section of automatic feeder.

Tips on Building Your Own Barn

Save hundreds of dollars on the farm building you want and need by building it yourself! But before you begin, read these time and money saving tips. They'll help you avoid mistakes, and guide you in building an attractive structure that's "tailor made" for your specific farm needs.

Reading Time: 2 minutes.



1 HOW TO APPLY ROOFING

First, make sure the roof frame is braced to hold it rigid during periods of snow, wind and ice. Start applying roofing at the end of the building away from prevailing winds. Side lap sheets 1½ corrugations. End lap 8 in. for 4 in. rise per foot . . . 6 in. for 5 in. or more rise per foot. Allow 3 in. overhang at eaves. Finish edges down. NOTE: Strongbarn galvanized steel roofing gives excellent support to heavy loads because it is 56% stronger than competitive materials, yet costs no more.



2 HOW TO APPLY SIDING

Again, begin at a corner away from the prevailing wind. You can space framework farther apart and save on materials by using Strongbarn galvanized steel siding. It's 21 lbs. per square lighter than sheets of comparable strength. Side lap 1½ corrugations on 1½ in. corrugated Strongbarn and 1 corrugation on 2½ in. corrugated Strongbarn. End lap about 4 in. Finish exposed edges down. Keep siding sheets from touching the soil by nailing them to a baseboard at the lower edge.



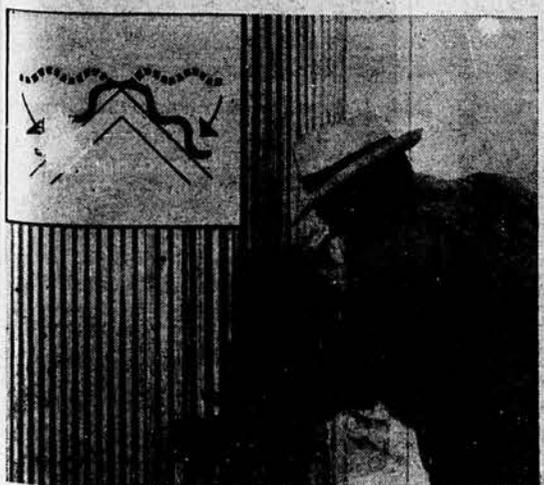
3 HOW TO NAIL PROPERLY

Be sure corrugations run exactly vertical. To seal out water, help prevent rust and leakage, use galvanized steel ring-shank or screw-shank nails with lead heads or washers. Nail roofing on crown of corrugations or slightly off center. Nail siding in bottom of corrugations. CAUTION: Do not flatten seams or corrugations during hammering. Space side-lap nails every 12 in. . . . end-lap nails every 6 in. Use about 110 nails per square. Draw sheets tight together at laps with metal screws if necessary.



4 THE FINISHING TOUCHES

It is better to use flashing, guttering, down-spouting, ridge roll (shown above), and other special accessories than to make your own from flat sheets. Mistakes in bending or cutting steel will damage the appearance of your structure. For lightning protection, place conductor rods at 2 diagonally opposite corners on an average-length building or at 100 ft. intervals around longer buildings. Bolt or rivet conductors to the roof. Lower them to permanent moisture level.



5 HOW TO BEND STRONGBARN

Because of its valuable springlike toughness, Strongbarn resists forming and should not be bent to a sharp corner. When bending Strongbarn along a corrugation (to fit a corner or gable) always bend toward the outside of the corrugation, reversing it to get a long bend (See diagram). Bending through the "valley" creates a sharp bend that may break the sheet. Properly applied, Strongbarn roofing offers tremendous strength, won't dent, bend, buckle or sag under heaviest strains.



6 HOW TO STORE STRONGBARN

Stand sheets on end, slightly fanned out at the bottom. Otherwise, moisture between sheets may form wet storage stain. Properly used, Strongbarn gives years of perfect service. And here's an extra plus. Each Strongbarn sheet has a guaranteed 1.25 oz. specified zinc coating per sq. ft. Zinc is the best metallic coating for rust prevention. Strongbarn is the first product to meet standards set by American Society of Testing Materials in guaranteeing a heavier zinc coating at no extra cost.

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Please send me without cost or obligation, the plans checked.

52 x 52 ft. Barn Dairy Loading Barn

40 ft. Barn Machinery and Equipment Shed

Pole Type or Lumber

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Address _____

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Dept. KF5, Granite City, Ill.

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7 SEND FOR FREE BUILDING PLANS

The makers of Strongbarn offer you, absolutely free, building plans for a 52 x 52 ft. barn, 40 ft. barn, dairy loading barn or machinery and equipment shed. Included are practical building and repair shortcuts that save time and money. Simply fill out and mail the coupon, today, to Granite City Steel Co., Granite City, Ill. Also, see your Strongbarn dealer. He'll be happy to give you other tips in building strong, serviceable farm and ranch structures.



MATTER OF FACT, I expect it to bring me a nice piece of extra cash. That's the way Bem Brand fertilizer works. I found out a long time ago that every dollar I spend for Bem Brand brings back several dollars in extra yields.

The reason is plain as the nose on your face. Crops grow by draining plant foods from the soil. Mother Nature will put those nutrients back, but she can't do it as fast as yearly cropping takes them out. She needs help, and Bem Brand fertilizer is the best helper I've found.

I'm no soil expert, but I do know that Bem Brand contains all the elements my land needs. It has the basics... nitrogen, phosphorus, and potassium... plus important secondary elements. There's the right amount of each, too, because Bem is made in my area for my kind of soil.

They call Bem the "bonus" brand because of those secondary minerals. I know it brings me a "bonus" in extra yields. I wouldn't use anything else.



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Taft Loss Could Have Serious Effects on U. S. Policies

By CLIF STRATTON, Kansas Farmer's National Affairs Editor

DEATH OF SEN. ROBERT A. TAFT last month could have serious effects on both foreign and domestic policies of the United States. During his 14 years in the U. S. Senate, this session as majority floor leader, the Ohioan had become a dominant figure in that body; during present session, the dominating figure. As "Mr. Republican," Senator Taft had come to represent the Republican party in the minds of most Americans. And this despite the fact the Republican party 3 times had rejected him as its presidential nominee.

During the present session of Congress, faced with a nominal one-vote margin in the Senate, Taft as floor leader had obtained co-operation of Sen. Lyndon Johnson (D., Tex.), minority floor leader, with the result that majority of the President's 10-point program of legislation either had been enacted or looked good for favorable action next session. Matter of fact, Taft had more trouble with Republicans than Democrats on several controversial matters.

Possible Senate Line-up

Appointment of a Democrat by Governor Lausche to succeed Taft will give the Senate line-up: Democrats 48; Republicans 47, Independent (Morse of Oregon) 1. There was some talk Ohio governor might name a Republican.

Washington observers are pretty much at sea as to what may happen next session, as a result. There are those who believe the Democrat leaders would be content to leave public responsibility with the Republicans, and not try to take over control of the Senate organization. As an offset to this, the lure of chairmanships and party control of committees is a factor not to be ignored in Senate thinking on the matter.

Whoever is named by Lausche, nominal Republican Charles P. Taft, conservative Democrat (many Republicans would not mind if Governor Lausche had himself named), or big city Democrat, it looks as if President Eisenhower in next session of Congress will depend upon Democrats to put thru much of his program. This includes amendment of Taft-Hartley; major amendments to the McCarran-Walter immigration act; extension of Social Security; statehood for Hawaii (bug under that chip is the Democrats want statehood for Alaska at the same time); and a revised farm program that will continue the benefits of present price-support programs;

continuation of foreign aid on substantially present levels. On the whole, that program has more of an appeal to Liberal Democrats (big northern cities) than to conservative Republicans from the Mid-Continent.

Democrats Not Too Eager

Looking cold-bloodedly forward to the 1954 congressional campaigns, one of the reasons for the hunch that Democrat leaders are not too anxious to take over Senate control next session may be found in the following from the July 28 issue of "The Demand and Price Situation," from Bureau of Agricultural Economics:

"While domestic demand for food and other farm products continues high, foreign demand for U. S. farm products remains at the reduced level of 1952-53, largely as a result of improved production abroad. Total exports of farm products in the coming (marketing) year are not expected to change much from the 1952-53 rate. However, some improvement is in prospect for cotton, tobacco, and some of the oils."

Further on in the same report:

"Wholesale prices rose 1 per cent from mid-June to mid-July. Prices for farm products were 2 per cent and processed foods 1 per cent higher, about 11 (farm products) and 4 (processed) per cent lower than a year ago. The average of prices for all other than farm and food prices also rose nearly 1 per cent during the month...."

"The index of prices received by farmers averaged 259 per cent 1910-14 average on June 15, down slightly from May 15 and 11 per cent lower than a year earlier. The index of prices paid by farmers (including interest, taxes and wages) dropped 4 points during the month to 275, four per cent lower than a year earlier. The parity ratio remained at 94, compared with 102 a year earlier."

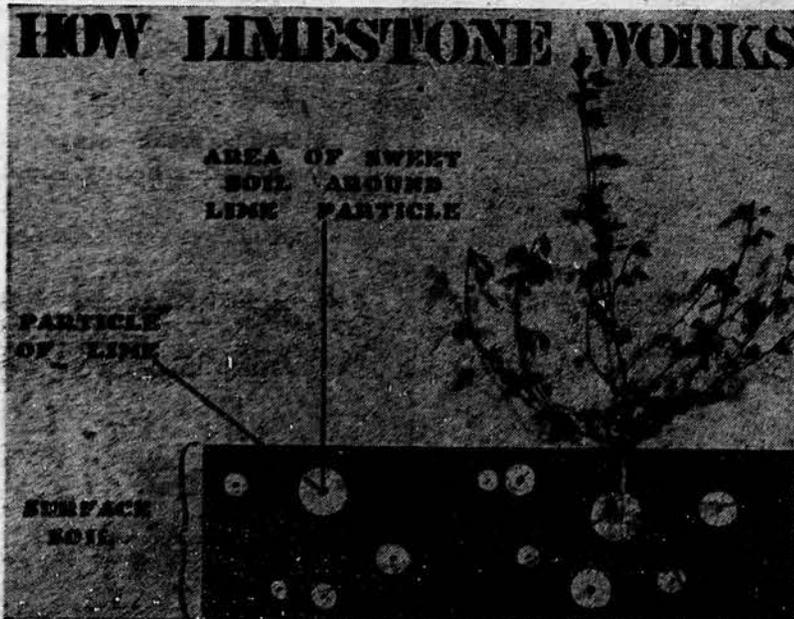
In other words, politically-minded Democrat leaders are willing to let a Republican White House and a Republican Congress take the blame for what looks like trouble between now and the 1954 elections—why divide the blame by betting a one-point Senate Democrat majority?

Turning Point in Conservation

From the long-range viewpoint, this session of Congress enacted what may prove to be the turning point in soil and

(Continued on Page 15)

USE PLENTY OF LIME



THIS PICTURE taken by Warren C. Teel, Anderson county agent, helps us understand how limestone works. Each particle of lime, as shown in picture, sweetens only a small circle and roots of plant shown have to seek out this area. The picture demonstrates need of applying sufficient lime to give the plant a chance.



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water conservation, and flood control programs. Rep. Clifford Hope, chairman of the House Agriculture committee, joined by Sen. Frank Carlson of Kansas on the Senate side, managed to detour around the Public Works committees of the 2 branches of Congress, and got appropriation of \$5,100,000 for starting 50 small "upstream" watershed projects in 29 states.

For years Public Works committees have insisted each such project was "public works" and had to be handled by those committees. Army Engineers and Bureau of Reclamation were more interested in big dams, and only 7 pilot watershed projects ever got approval.

Included in the Hope-Carlson program, approved by both branches following a conference report that accepted the House bill after Senate once had rejected it, are following Kansas projects:

Bill's Creek, 25 square miles in Jackson county, Delaware valley, initial appropriation, \$50,000; final \$200,000.

Claussen Creek, 17 square miles, Osborne county, Solomon valley; initial \$30,000, final \$102,000.

Little Delaware—Mission Creek, 44 square miles, Brown county, Delaware valley; initial \$100,000, final \$540,000.

Thank You

Surely enjoy *Kansas Farmer*, especially exchange students' letters, Mrs. Williams' travels, Mr. Payne's plant life and many others. It's the paper for us rural people, as the departments are easily read and understood. My husband kids me for being a "Clipper" and letter writer.—Mrs. Howard H. Libby, Pratt Co.

Lost Creek, 20 square miles, Lincoln county, Saline valley; initial \$70,000, final \$216,000.

Snipe Creek, 26 square miles, Marshall county, Blue valley; initial \$40,000, final \$160,000.

Switzler Creek, 33 square miles, Osage county, Osage valley; initial \$50,000, final \$160,000.

Uehlin Creek, 10 square miles, Decatur county, Sappa Creek valley, initial \$15,000, final \$32,000.

Ultimate cost of all projects, something over 60 million dollars, local contributions slightly more than federal. Figures on projects are federal share.

In Missouri: East branch of South Fork of Blackwater, 20 square miles, Jackson county, in Blackwater valley; initial \$30,000, final \$140,000.

Lost Creek, 14 square miles, Lincoln county, Mississippi valley; initial \$20,000, final \$69,000.

Senate in next to closing week of session ratified the International Wheat Agreement for another 3 years. Wheat will be sold to importing countries on a sliding scale about 20 cents above the last 5 years, U. S. treasury paying a subsidy expected to run about 40 cents a bushel.

Effect of the give-away food programs for foreign countries facing approval last week of session on the International Wheat Agreement admittedly is problematical.

With 2 years of falling prices in the background, and surpluses piling up, chances appear better than even that in the 1954 session, Congress will vote to continue present support price programs, with perhaps minor changes.

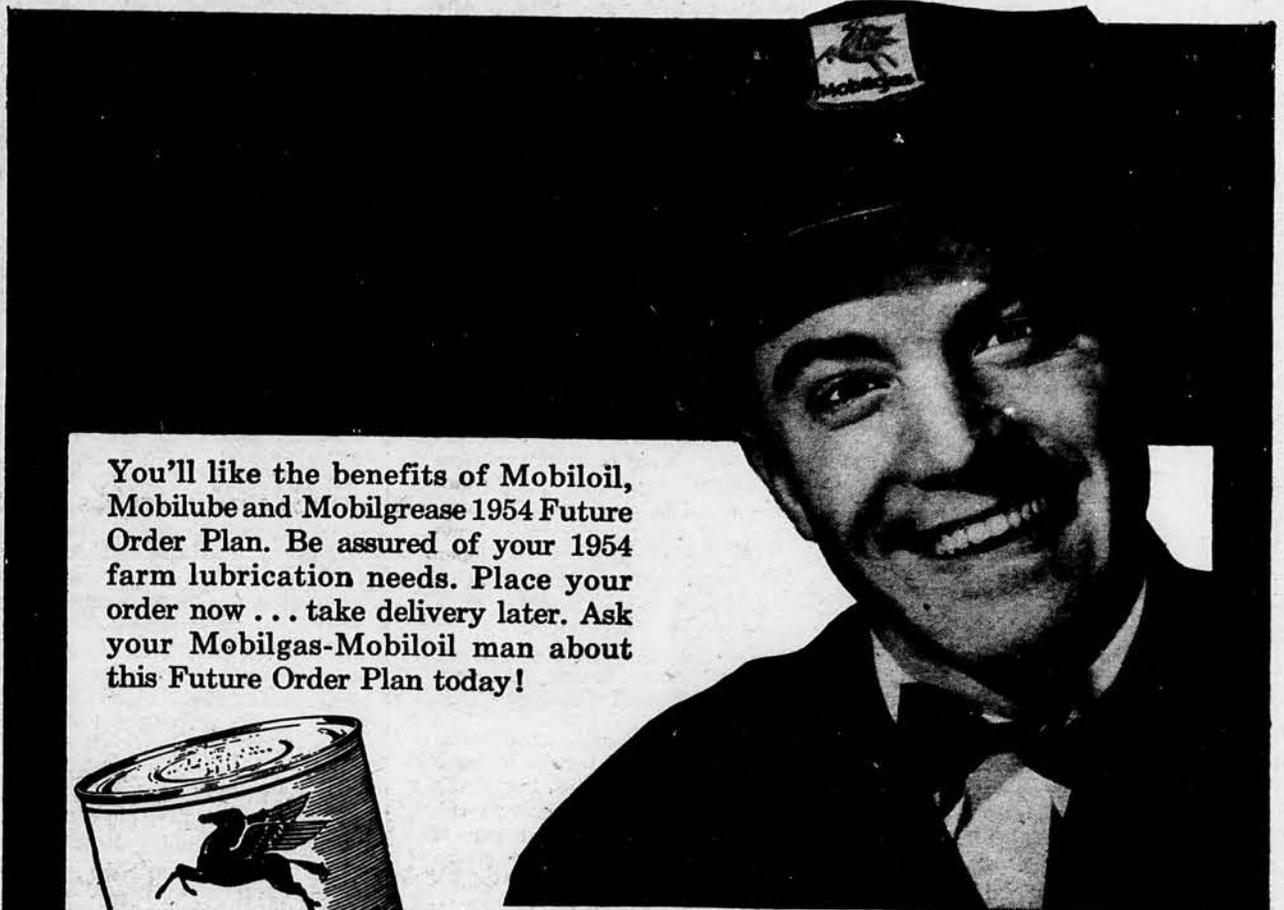
Farm Tool Booklet

A new 32-page booklet is off the press giving information on hard facing of farm tools. There are 70 illustrations and detailed procedures for 30 of the most-used farm tools. For your free copy of "Adams Farmanual," published by Adams Alloy Company, write Farm Service Editor, *Kansas Farmer*, Topeka, Kan.

Take a Tip from the Man
on the Mobiloil Truck . . .



IT PAYS TO GET 1954 NEEDS OFF YOUR MIND!



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MOBIL-OIL—Super Detergent for Maximum Protection . . . Full Power . . . Top economical engine operation!

MOBILGREASE—stays put even under heavy shock loads—cuts wear, guards against dirt and moisture!

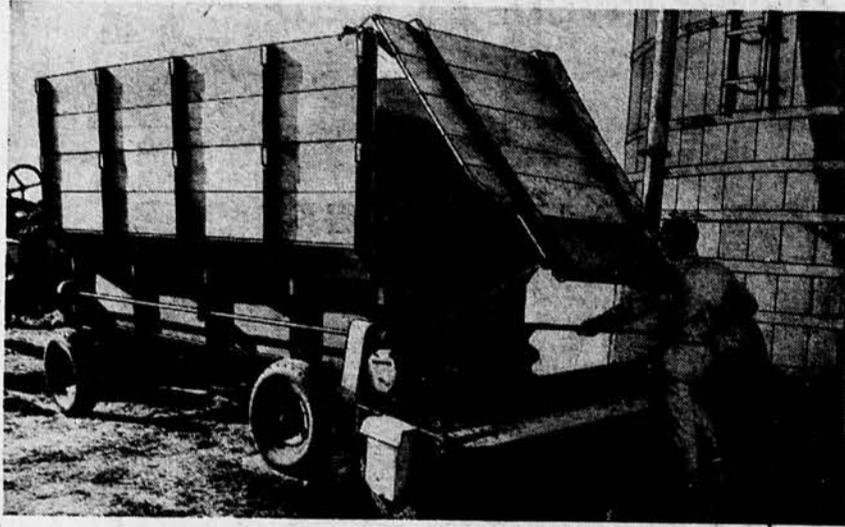
MOBILUBE GEAR LUBRICANT—protects the parts from harmful wear and corrosion, makes shifting easy!



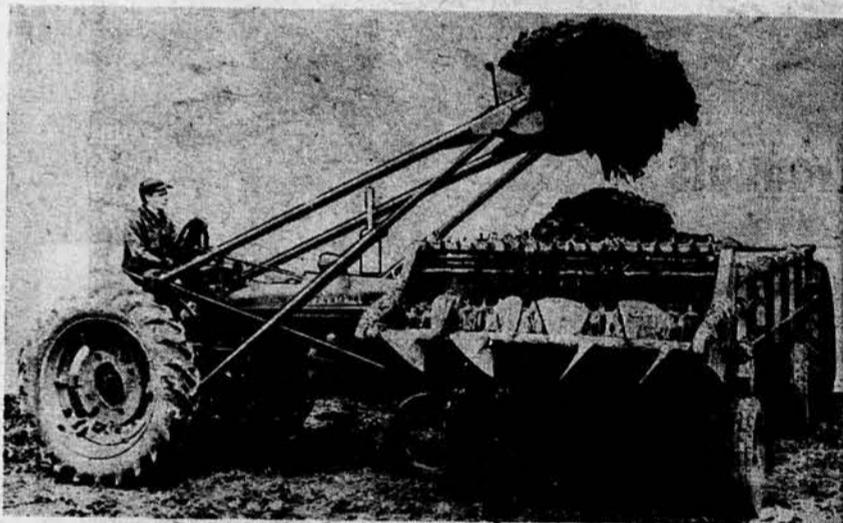
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FARM LUBRICATION

New FARMHAND "Power-Box" and Loader actually cost less!



4 MACHINES IN ONE—Cut machinery investment with the sturdy, multi-purpose 4-ton "Power-Box". It's a Forage Unit, Spreader, Mechanical Feeder and All-Purpose Box. In a matter of minutes you can remove the high sides from the self-unloading, 285 bu. Forage Unit, then add the Spreader Attachment to make a 4-ton all-weather Spreader. Or add a Feeder Attachment for a unit that mixes and delivers feed into bunks as fast as 90 bu. per minute. P.T.O. operated, with power smoothly transmitted to stout roller chain conveyor by worm gear drive (no ratchets).



THREE OUTSTANDING ADVANTAGES—Low cost . . . simple, sturdy construction . . . high, powerful lift. The Farmhand Standard Loader is lower in cost than any comparable unit! Heavy channel steel frame, big 3" lift cylinders, heavy-gauge 14 cu. ft. bucket with 1 1/4" square teeth fit the Standard for hard, heavy use. 2000 lb. lift capacity up to 12 ft. makes it easy to load high spreaders and wagons from one side. Detachable scoop available for snow, ear corn, baled hay, and other bulky materials.

See your local Farmhand Dealer for demonstrations and prices on these low-cost Farmhand worksavers.



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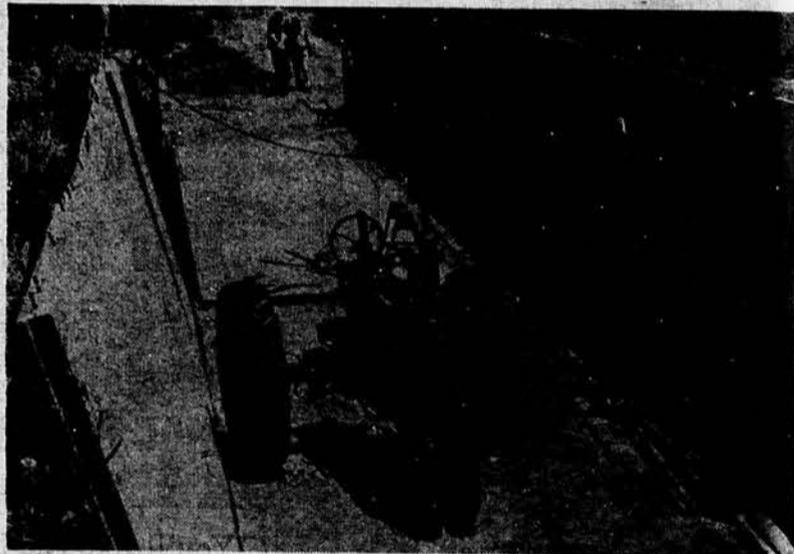
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A Division of SUPERIOR SEPARATOR COMPANY

Show How Tilt-up Silo Is Made On Knopp Farm in Dickinson County



TILT-UP SILO going into place on Wayne L. Knopp farm, south and east of Chapman, is part of silage field day held July 21. Knopp stands on bank at right, directing lifting of concrete slab that was poured on silo floor. Leo Wendling, Kansas State College Extension engineer, holds block behind slab to position it correctly as A. R. Schmidt, a neighbor, stands by tractor he used to slide base of slab. Keller Gordon of Portland Cement Association stands at extreme left with camera at eye level.



NEAR COMPLETION, several slabs are yet to be lifted into position as halt is called for lunch period. Formerly an earthen wall trench silo, it had a cement floor in it last year. Since floor was saucered to drain to center and out at bottom, it had to be leveled with sand before wall slabs could be poured. Slabs are joined by tongue and groove system in slab at extreme left.

BUILDING METHODS used in tilt-up trench silo construction were demonstrated on the Wayne Knopp farm, in Dickinson county, July 21. Co-operating on the demonstration were Mr. Knopp, the Portland Cement Association, and the Extension service.

More than 300 farmers attending the meeting were told cost for the silo would run about \$1,400. A total of 300 sacks of cement were used at a cost of \$330; bolts, reinforcing rods, and steel mesh amounted to \$125; gravel and aggregate cost \$80; labor costs were \$300; and the balance was accounted for by machinery and excavation costs. The trench silo was in use last year

on the Knopp farm and the floor was poured then. Work this year amounted to reshaping the walls, pouring the slabs and moving them into place.

Trench is 112 feet long, 12 feet wide at bottom and 16 wide at top. Steel mesh and rods were used to reinforce sides and floor. Wall sections were 10 by 10 feet, and 6 inches thick.

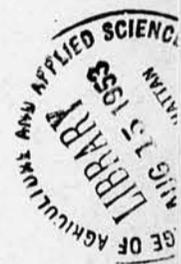
Those in charge of the demonstration included: Wilton B. Thomas, county agent; H. C. Love, farm-management specialist at K-State; V. E. McAdams, K-State Extension livestock specialist; Leo Wendling, K-State Extension engineer, and Keller Gordon, of the Portland Cement Association.

CAN EASILY CHANGE SIZE



METAL FRAME on this creep-feeder, built by Harold McDonald, Anderson county, telescopes against the frame center so it will go thru gates easier and so size of creep entrance can be easily adjusted.

Before you buy any truck... Make the
15-second SIT DOWN TEST
 in **FORD'S** new Driverized Cab



Step into
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Don Goes to Lebanon and Syria

... Visits 500,000-acre farm, 2,400-acre rice field; summer-fallow first used in 1948, wheat is relatively new crop but farmers learning how to handle it

Remember, Kansas Farmer promised to bring you letters from 2 of our Kansas 4-H'ers who are spending some time on farms overseas this year. Here is the third letter from Don Weixelman, of Louisville, in Pottawatomie county, who has gone to Lebanon and Syria.

DEAR MR. GILKESON: Since I am going to be writing from Syria, I thought you would be interested in a few facts about it. Syria is about seven eighths the size of Kansas and has about twice as many people as Kansas. Agriculture is the main industry, making up more than 50 per cent of the nation's income. Main crops are wheat, barley, rice, cotton, maize and fruits. However, agricultural production is limited by lack of rainfall. Syria has only about 15 inches of rainfall per year, and all of it falls in winter months.

Syria has been a progressive nation since it broke from the French government in 1945. Agricultural production has increased 25 per cent since then.

The increase has been attributed to adoption of machinery and scientific agriculture of the United States. Perhaps greatest improvements are in use of summer-fallow and more effective use of irrigation. It may be of interest to the boys back home that Syrian boys have to spend 2 years in the army, also.

We began to look over Syria early in the morning of July 6. E. R. Raymond, U. S. agricultural attache to Syria, and Jim Lobenstien, of Point-4 program to Lebanon, escorted us, the IFYE delegates, to Kamishlie on the Jezire plain in the northeast corner of Syria. Since there are very few roads in Syria we had to go a great deal out of our way to get there. We traveled northward along the western side of Syria, passing thru Homs and Hama.

We met the assistant director general of agriculture at Hama and had lunch with him. We also noticed the district around Hama was a very rich agricultural section. After lunch we pushed on to Aleppo, largest city of Syria, where we spent the night.

The next day we traveled southeast along the Euphrates river to Deir-Ezzor where we ate lunch at the Presbyterian Missionary Hospital with Doctor Burton. He and his helpers are really doing great work for the Syrian people, who know very little about medicine or sanitation. Their sponsors should be proud of them.

After lunch we had to get our passports cleared to enter the Deir-Ezzor region of Syria.

From Deir-Ezzor to Kamishlie, 130 miles, it was very hard traveling. There was no road, only a trail. The trail was about one mile wide and covered with a 3-inch layer of dust.

We got to Kamishlie about 9 o'clock and were mighty happy to get off that dusty road. After we got our passports cleared we went to Jack Naggar's home in Kamishlie, where we spent the night. The next day we split up. Cecil Spooner and myself stayed with Mr. Naggar while Leland Scoggin went to stay with another farmer. Mr. Raymond and Mr. Lobenstien headed back to Damascus.

Mr. Naggar started to show us around the 500,000-acre Naggar farm which is owned by a co-operative. He first showed us the 2,400-acre rice field which was just outside Kamishlie. He told us they bought the water that flowed from the mountains of Turkey from Turkey.



DON WEIXELMAN
Louisville, Pottawatomie County

While we were there he also pointed out the difference in yield of wheat and barley on ground that was summer-fallow and that which was not. The yield of the summer-fallow ground was about twice as much as ground not summer-fallowed. The increased yield was due to storage of water while fallowing to be used for production of the next year's crop. He also told us summer-fallow was first used here about 1948.

That night after dinner Mr. Naggar told us about a few problems of wheat farmers on the Jezire plain. Altho he had no college education, his technical knowledge of farmers was comparable to one. He pointed out the biggest difficulty is there is no agricultural experiment station to determine the best or most effective ways of farming.

Many Unsolved Problems

Since wheat has only been grown on the Jezire plain since 1930, there are many unsolved problems such as best time of planting, best depth to plant, most effective method of plowing, best time to plow, best varieties, and smut and rust control of wheat. For him to find out the answers he had to run his own experiments which are very costly. His talking to us really made us realize the importance of experiment stations in the United States.

Next day we went out to the wheat harvest camp about 80 miles from Kamishlie where we now are. On our way we saw methods of harvesting wheat that were used 300 years before Christ, alongside the Massey-Harris self-propelled combine used in Western Kansas. We also found that marketing wheat is a difficult problem. I hope to find out more about wheat growing and marketing and tell you a little more about it in my next letter. Until then.—Sincerely, Don Weixelman.

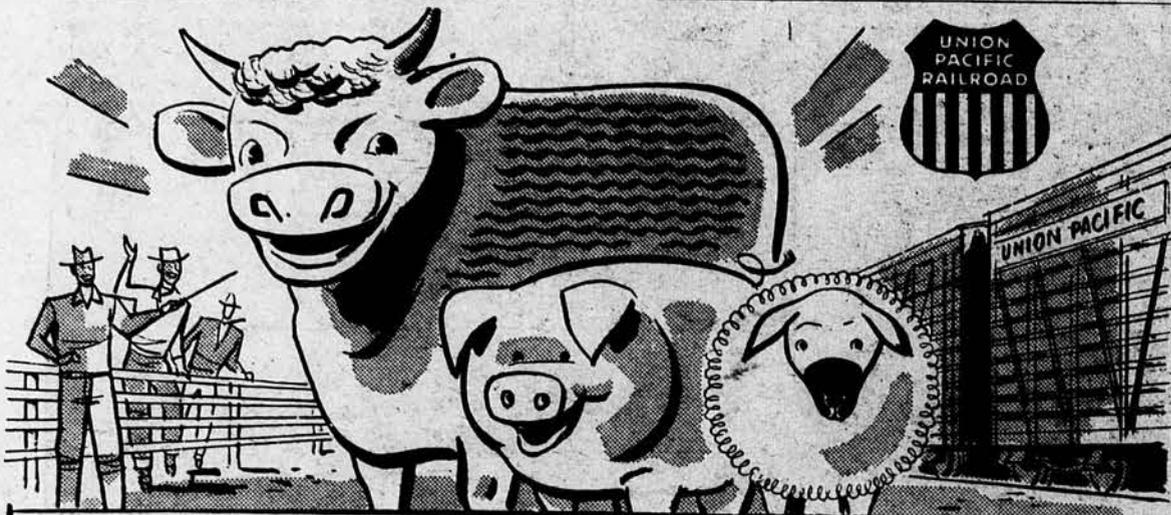
Like Hybrid Corn

Hybrid seed corn was planted on 90.5 per cent of the 1953 Kansas corn acreage, according to U. S. Bureau of Agricultural Economics and the State Board of Agriculture.

Area planted with hybrids amounted to 2,271,000 acres out of a total of 2,509,000 acres, a 1 per cent decline from 1952; The west-central and southwestern districts of Kansas showed a moderate increase in hybrids. The northeastern district has 98 per cent planted to hybrids, east-central 97 per cent, and north-central 93 per cent.

Sell Better Potatoes

For tips on better quality potatoes for marketing, read "Handling Potatoes," printed by Union Pacific Railroad. There's information on storage, harvesting, shipping. For your free copy, write Farm and Home Service, Kansas Farmer, Topeka, Kan.



Better ARRIVAL condition
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The organization, and the know-how, to take good care of your livestock all the way from loading chutes to the market or feedlot, is available to you when you ship via Union Pacific.

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and in transportation — all along the way. It is carried in special livestock cars, moving on dependable schedules over a smooth steel highway. It is properly fed and watered in modern Union Pacific stockyards conveniently located for this service where required.

Let your local Union Pacific agent help you arrange shipping for your stock.

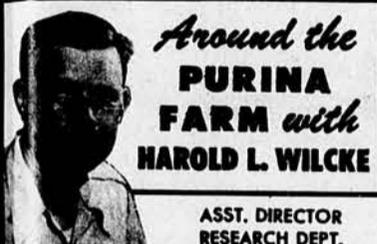
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Around the
PURINA
FARM with
HAROLD L. WILCKE

ASST. DIRECTOR
RESEARCH DEPT.

"Hens paid for our home"

by Jim Gooch

MANHATTAN, KANSAS—"Hens have paid for our modern home and this small farm in the last few years," explained Mr. and Mrs. Chet Burnett. "We've just kept a good heavy-producing flock—developed and maintained a good local market for quality eggs."

Of course, it's not all been quite as easy as the Burnetts make it sound. They keep close watch on sanitation, start only the best of hybrid chicks and then try to cull within days after hens slack off in production.

While stationed in France during World War II, Chet studied poultry raising through the Army Extension School. He'd been reared on a farm but felt a need to bring himself up to date on the poultry business.

The Burnetts now keep 500 layers the year round. Replacement chicks are started to keep one 20' x 40' and two 20' x 30' laying houses full. "We watch production and condition of birds and try to estimate our



"My main job is grading and selling eggs," says Mrs. Burnett. Some eggs are marketed through retail stores and some go direct to consumers.

OUR DUROC hogs broke all Research Farm records this season. Sow No. 535 weaned a litter of 11 pigs, weighing a total of 655.5 pounds at 9 weeks. This is an average of 59.6 pounds per pig. Sow No. 494 then weaned 10 pigs averaging 62 pounds each, for a litter weight of 620 pounds. One gilt pig in this litter weighed 81 pounds at 9 weeks! Another Duroc sow followed a close third with an 11-pig litter weighing 597 pounds.

* * *



TWIN CHICKS are extremely rare. The pair of White Leghorns that hatched May 7 were the second set of unattached twins poultry manager, W. D. Milhollen had seen in his 23 years at the farm. And 50,000 chicks are hatched each year. Of course, double-yolk eggs are not usually placed in the incubator. But even when they are, embryos seldom develop normally.

* * *

THE MEN at our dairy unit developed the practical and quick method of mixing Nursing Chow, the new milk replacer for calves. They put the required amount of dry Nursing Chow in a clean bucket and add just enough water to make a thick paste. After stirring until the mixture is smooth, they add the rest of the required water. Mixed this way, there is never trouble with lumping. A quick check with a thermometer to be sure the gruel is at 100° F. and the Nursing Chow is ready to feed, either in open pails or nipple buckets.

* * *

QUAIL from the farm have been released for a special range management and feeding experiment. They were turned out on the 1,600-acre Arboretum of the Missouri Botanical Gardens. In the spring before breeding season, the quail will get Game Bird Layena in self feeders. Scratch grain will be in the feeders this winter. We're trying to increase hatches and boost vigor of birds.



These 12-week-old pullets look like peas in a pod. They will go on range when weather permits.

replacement needs 6 months in advance," says Chet. "Usually we start chicks in the spring and fall." At the time we visited the Burnetts they had chicks 2 weeks old, pullets 12 weeks old and two laying flocks, one 8½ and another 11½ months in production.

"Once production in a house drops below 60 percent we move them out and replace with pullets," say the Burnetts. "Our birds average 70 percent or better all year. It's not hard to tell when hybrids quit laying. They fall off fast once they start and we get rid of them before they get many days free boarding."

The Burnetts have had to emphasize labor-saving methods. They use built-up litter. "We've not taken the litter out of one house in 4 years," they report. "And we won't remove it unless we get a serious disease outbreak."

The Riley County poultrymen explain that it takes special management steps to make their system work. Ventilation has got to be just right so the dry old litter won't cake or get too

dusty. Between flocks the top 2 or 3 inches of heavy litter is removed and the surface is then sprayed with Purina Insect Oil to knock mites and worm eggs. Damp litter is removed from around waterers. Chet made nesting units from orange crates. They are light and easy to move and clean.

The Burnetts' hybrids get Purina Startena, then Growena. They are switched over to laying ration as soon as the first egg is laid. Booster Checkers are top fed. "We're as particular about our feeding program as we are the quality of birds," they explain.

Three sons, Tommy (5), Billy (7) and Bobby (9), all help care for the birds. Bobby does a man's job each summer while his father is at National Guard Camp.



BULKY LAS...
RIGHT "FUEL" FOR MOST MILK COWS

A STOCK cow, like a tractor, works at a slow rate and needs only a partially refined fuel to keep going. She only has to produce a calf and about a ton of milk each year. We know we can't afford to feed her for high milk production. It just isn't there.

With a milk cow, it's a different story. She produces a calf and at least 3 tons of milk—4 to 5 tons if she's a good milker. To do this she needs a high-grade ration. Like an airplane she needs a refined fuel to work harder and faster.

Bulky Las, Purina's low-cost balancer, turns grain into the refined fuel or ration milk cows need to produce the 3 to 5 tons of milk a year. This balancer, mixed with grain, often lowers the ration cost per hundred. Of course it weighs less than grain alone. But it makes more milk. That's why Bulky Las with grain usually lowers the feed cost per gallon of milk as well as making more milk.

This grain balancer is different from most dairy supplements because it is body building. Along with good grain, it helps to build up and maintain body condition through the milking period. And better body condition makes more milk. Condition put on with Bulky Las and grain is more than soft fat. It's hard tissue containing not only fat, but many of the vitamins, minerals, etc., which are used every day in the process of making milk.

Have your Purina Custom Mix dealer grind 15 bushels of ear corn and 15 bushels of oats. Then mix in 500 pounds of Bulky Las with the 1,500 pounds of grain. If you prefer, you can feed your regular ration and pour Bulky Las on top, one gallon per feeding for each cow.

Bulky Las is good for cows producing up to 350 pounds butterfat. If you're shooting for higher production, it will pay to also add Cow Chow to the ration.



NURSING CHOW saved these quadruplets

Actually these male calves were quintuplets. They were dropped near Grand Island, Nebraska, on a cold, raw day late last February. All five were alive, but very weak, when found. The fifth calf died.

Their mother had so little milk it was necessary to take them from her at 5 days. One calf at that time weighed 24 lbs., another 26 lbs., a third 27 lbs., and the fourth 33 lbs.

The first month they were fed Purina Nursing Chow and had Calf Startena available. During the second month they got Calf Startena, but

no milk or hay. Since the second month they've been fed Purina Beef Chow, grain and hay.

At 81 days of age the calf that had weighed 24 lbs. now weighed 100 lbs. The calf starting out at 26 lbs. now weighed 77 lbs. The one starting out at 27 lbs. weighed 96 lbs., and the one weighing 33 lbs. at the start weighed 112 lbs.

These were not orphan calves, but their mother was of no help. Nursing Chow and Calf Startena are fed principally to dairy breed calves, but these whiteface quadruplets show the effects of good feed on economical calf growth.

SPEAKING OF PULLETS...



by RUSS E. THOMAS, Manager
 Purina General Poultry Chow Sales

THERE'S NO GOOD REASON for putting off the mighty important job of worming those pullets just before they go into the laying house. Even if you wormed them at 10-12 weeks of age, treating again before housing usually is money well spent. It takes care of those birds which may have become re-infested.

For this job, you can choose between two equally good Purina products—Chek-R-Ton or Chek-R-Ton Granules. Both are shockless and easy on the birds, so there's little danger of throwing them into a molt. You don't have to catch or handle the birds.

Chek-R-Ton Granules come ready-to-feed as a complete ration for your birds. Containing Chek-R-Ton at a 12½% level, this product is designed to do a complete worming job in 2 days. If your birds are 18 to 24 weeks of age, you'll need only about 45-50 pounds per 100 birds.

Chek-R-Ton comes in meal form for mixing with your birds' regular ration. If your Purina dealer does custom mixing, he can mix the Chek-R-Ton into the ration he grinds and mixes for you at no extra cost.

Either way you do it, I'm sure you'll find that worming pullets pays. You just can't expect a wormy pullet to make much money.

Purina Farm Flash...

PURINA PIG STARTENA helps MARKET HOGS SOONER

Just what effect Pig Startena is having on the time required to get a hog to market weight is being studied at Purina's Research Farm.

Recently a Farm sow weaned 11 pigs that averaged 59.6 lbs. Another sow weaned 10 pigs at 9 weeks averaging 62 lbs. each . . . and one pig in a litter defied them all by weighing 81 lbs. in only 9 weeks. These pigs got Purina Pig Startena free-choice and, of course, milk.

The table below shows that big pigs at weaning will be ready to market at an earlier age than average pigs. The figures point up the relationship of weaning weight to age at market weight. These figures are a digest of records kept on 1,100 pigs at the Purina Research Farm.

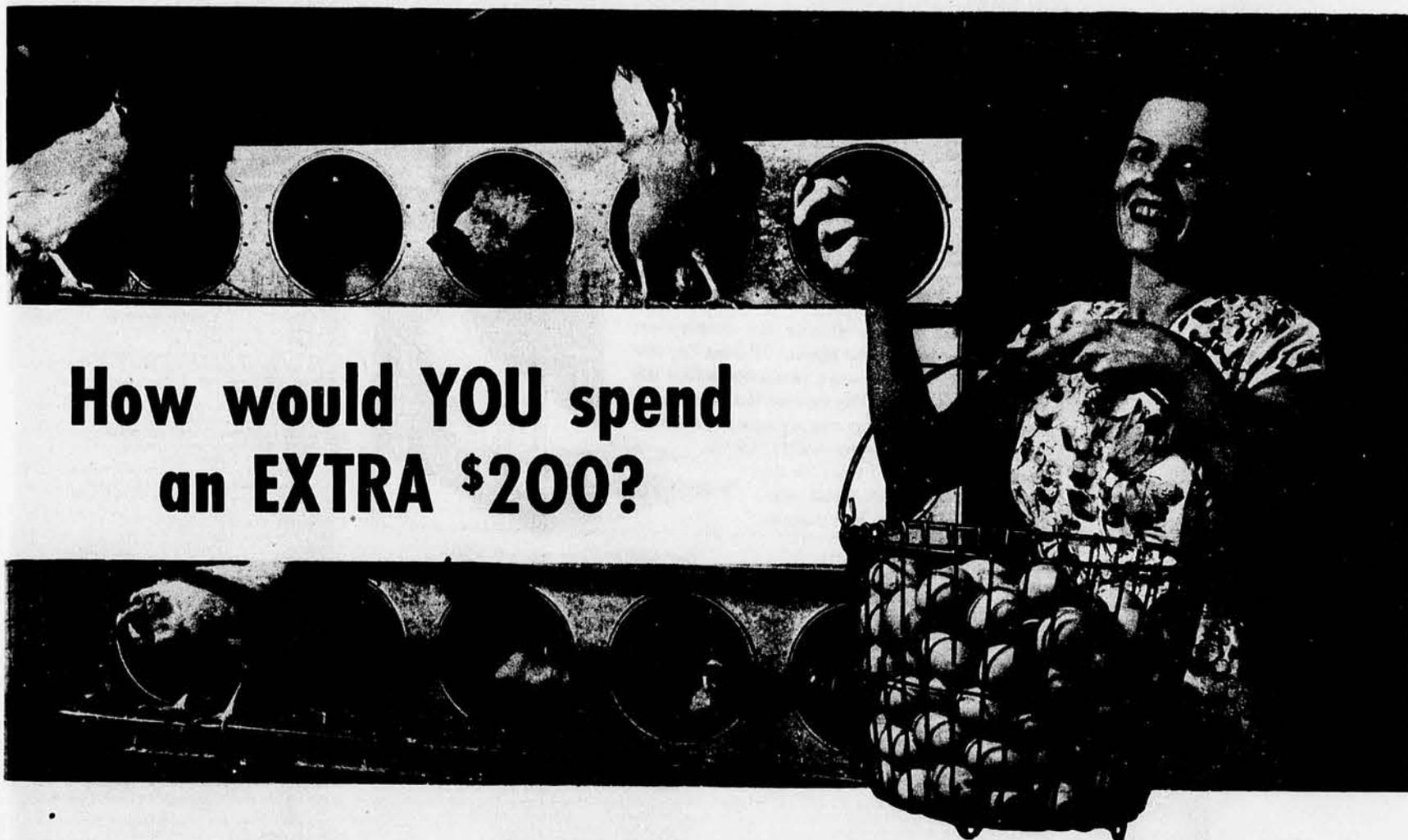
Weaning weight	Market weight at 5½ months
25-30 lbs.	188.4 lbs.
30-40 lbs.	203.6 lbs.
40-50 lbs.	219.5 lbs.
50-60 lbs. and up	?

Now the question is, "How much sooner will 60 and 62-lb. pigs like those in the Farm litter go to market?" This is what Purina researchers are watching. Research men tell us that a large number of hogs must be considered to obtain this answer. But based on present evidence it seems that Pig Startena definitely will shorten time to market for Purina-fed hogs.

Purina feeders who are getting record-breaking weaning weights feel sure that they will market hogs sooner than ever before. This is saving in grain, time, and labor . . . which means money in the pocket.

CHECKERBOARD NEWS

WE MICRO-MIXED



How would YOU spend an EXTRA \$200?

HERE'S a bet for LADIES ONLY. We're wagering that you'd have no trouble at all spending an extra \$200 this fall. Just take a look at the possibilities—new refrigerator or freezer; a water system; new furniture; maybe even a new power mower—we didn't even mention new clothes!

There's no "catch" to it. As a matter of fact, lots of women are just a few weeks away from the payoff.

Here's how they figure it: On the average U. S. farm, the average hen lays 48 eggs during September, October, November and December. Suppose they sell on the higher fall market at 50¢ a dozen. You wind up with \$2 a bird, gross.

Now consider an average pullet that got a reasonably early start plus good growing ration and management. On a Purina Laying Chow she'll get into production *early* and at a fast clip. Result: During the same 4 months, she lays 72 eggs, again at 50¢ a dozen her eggs will bring \$3.00. That's a dollar a bird difference. 200 pullets can make the extra \$200 we spent a minute ago.

These figures were not just grabbed out of the

air, either. At the Purina Research Farm near Gray Summit, Missouri, pullets raised under typical farm conditions have proved this story true beyond a shadow of a doubt. Besides that, thousands of record-keeping poultrymen all over the country can verify the "extra dollar a bird" egg story.

So this egg money bonus comes from a simple, easy-to-follow recipe. Start chicks early; grow them well; then let your Purina dealer help you pick out the Purina Laying Chow best suited to your needs.

And as you feed Purina Laying Chow, remember there are more than 27 years of research and farm experience behind it. In that time Purina researchers have found exact amounts of just which minerals, proteins, and vitamins hens need for heavy egg production. Purina Chows are Micro-Mixed, too, to make sure these important ingredients are mixed thoroughly through every bag.

So stop by the store with the Checkerboard Sign next time you're in town. You'll soon find out why more folks feed Purina than any other kind.

It takes more than ingredients

Feed control regulations require that a tag listing ingredients contained in it be attached to every bag of feed. This is a good regulation, and is valuable protection for every feeder. But, an ingredient tag cannot tell the whole story.

At the Purina Research Farm rations containing identical ingredients, but in slightly varying amounts have frequently been checked. Hens fed one ration have laid 20 to 24 eggs per month while similar hens on the second ration laid only 12 to 15 eggs.

Results with hogs also show variation. On

X ration hogs weighed 207.1 lbs. at 165 days. On Y ration other hogs weighed 163 lbs.

Our new knowledge of Micro-Mixing further spotlights these variations. On Micro-Mixed rations containing the proper growth boosters properly distributed throughout the feed, pullets at 20 weeks have improved feathering, more bloom, show better growth, and make better use of feed.

Hogs receiving the right amount of growth boosters weigh 200 lbs. at 5½ months. Those getting insufficient amounts weighed 155 lbs.

20 MILES A DAY ON PURINA DOG CHOW

Several of the hunting dogs run 20 to 25 miles a day at Purina's Research Farm and yet they never leave the kennels. They each run 4 hours daily on a moving belt that keeps them going 5 to 6 miles an hour. The dogs seem to enjoy



the exercise. At the end of a workout they crowd ahead as if they smelled birds in the air.

The exercise unit helps Purina find rations that will get hunting dogs conditioned for long hard days in the field. Dogs should carry good muscle and plenty of energy-producing hard fat. Ample exercise and the feeding of Purina Dog Chow Kibbled Meal or Dog Chow Checkers will help build that condition.

PURINA DOG CHOW IMPROVED

Such conditioning programs have helped Purina in recent improvements made in our Dog Chow Kibbled Meal. The fat content was recently increased, thus helping give extra energy hunting dogs need when they spend long hard days in the field.

Antibiotics have been added, and changes made in the form that improve mixing qualities when water, milk or gravy are mixed with it. These improvements in formula and nutrition also help keep puppies thrifty and growing.



FIND YOUR PURINA DEALER LISTED HERE

Take your feeding problems to your friendly Purina Dealer

KANSAS

ABBEVILLE, The Farmers Grain Co., Inc.
 ABILENE, Gordon Mark Elevator Co.
 ALDEN, Farmers Coop. Assn.
 ALMA, Schulte Produce
 ANDALE, Andale Farmers Elevator
 ANDOVER, L. S. Dack
 ANTHONY, Thurman Hatchery
 ARGONIA, Batin Grain Co.
 ARKANSAS CITY, Arbuckle's Hatchery & Fd. Co.
 ASHLAND, Wallingford Elevator
 ATCHISON, Berry Bros. Hatchery
 ATTICA, Imperial Flour Mills Co.
 AUGUSTA, Furlong Hatchery & Feed
 BALDWIN, Hardy's Hatchery
 BALDWIN, Hunt Farm Supply
 BAXTER SPRINGS, Gaines Feed Store
 BELLE PLAINE, Halls Produce & Feed
 BELLEVILLE, Hall Mill & Elevator
 BELOIT, Jones Feed & Seed Co.
 BLUE MOUND, Mulkey Produce
 BONNER SPRINGS, Bonner Feed & Fuel Co.
 BURNS, Burns Feed Store
 BURRTON, Hensley Oil & Feeds
 CANEY, Halligan Feed & Produce
 CANTON, Canton Grain Co.
 CARBONDALE, Servis Grain Co., Inc.
 CEDARVALE, L. C. Adam Mercantile Co.
 CHANUTE, Farm Service Store



EDDY ARNOLD

became a television star again this summer. Once again, beginning in June, he was called to replace some of the top names in television programming.



Whether you have television or not, you can still hear Eddy Arnold on the Purina Radio Program every week. He's heard on KOAM, Pittsburg, Kansas, every Saturday night at 9 — and on KWBW, Hutchinson, every Saturday morning at 11:30.

Down in Wichita, daily market reports are brought by one of the outstanding personalities in the farm broadcasting business. Folks throughout south central Kansas listen to the up-to-the-minute farm news of Bruce Behmer on KFH, Wichita. He broadcasts on behalf of Purina dealers every Monday, Wednesday and Friday at 12:45 p.m.

CHENEY, Ball Produce & Hatchery
 CHERRYVALE, Cherryvale Grain Co.
 CHETOPA, Karns Grain Products Co.
 CLAY CENTER, Gordon Mark Elevator
 CLAYTON, Norris Grain Co.
 CLEARWATER, Hugh R. Wilk
 CLYDE, Derussau's Hatchery
 COFFEYVILLE, C. C. Feeders Supply
 COLBY, Thomas County Grain Co.
 COLDWATER, Wallingford Grain Corp.
 COLUMBUS, Columbus Hatchery
 COLWICH, Andale Farmers Elevator
 CONWAY SPRINGS, Farmers Union Coop. Assn.
 COTTONWOOD FALLS, Schoop Poultry & Egg Co.
 COUNCIL GROVE, Scholes Feed Store
 DELEVAN, Farmers Grain & Supply Co.
 DENISON, Farmers Elevator
 DENTON, Winchester Grain Co.
 DESOTO, Goodrum Grain Co.
 DODGE CITY, Casteline Grain & Seed Inc.
 DWIGHT, Dwight Feed Co.
 EDGERTON, Edgerton Grain Co.
 EDNA, Edna Produce

LA CYGNE, Farmers Produce
 LAKE CITY, The Adams Elevator
 LANE, Gerths Breeder Hatchery
 LATHAM, Snyder Produce
 LAWRENCE, Caldwell Hatchery
 LAWRENCE, Douglas County Hatchery
 LEAVENWORTH, Hibbs Farm Service
 LEBANON, Independent Oil Co.
 LENO, Leno Grain Co., Inc.
 LEOTI, Herb J. Barr & Sons Grain & Supply Co.
 LE ROY, Murphy Grain Co.
 LIBERAL, Security Elevator Co.
 LITTLE RIVER, Thompson Produce, Inc.
 LOGAN, The Logan Grain Co.
 LOUISBURG, Owens Feed & Produce
 LYONS, Lyons Independent Produce
 MAIZE, Maize Mills, Inc.
 MANHATTAN, Johnmeyer Feed & Seed
 MANKATO, Whittons Feed & Produce
 MARION, Seymour Packing Co.
 MARQUETTE, Rodney Milling Co.
 MARYSVILLE, Lake Turkey Hatchery
 MAYETTA, Farmers Union Coop. Assn.
 McLOUTH, McLoth Grain Co.

OSKALOOSA, Oskalo Feed Store
 OSWEGO, Karns Grain Products Co.
 OTTAWA, Ottawa Produce Co.
 OVERLAND PARK, Jennings Feed & Coal
 PAOLA, Washburn Hatchery
 PARKER, Lockhart Station
 PEABODY, Peabody Coop. Equity Exchange
 PECK, Moore Grain, Inc.
 PENALOSA, E. W. Tarrant
 PERRY, Heck & Seyler
 PIQUA, Niemann's Store
 PITTSBURG, The Potter Hatcheries
 PLEASANTON, Pleasanton Mill & Elevator Co.
 PORTIS, Walter's Lumber Co.
 PRATT, Pratt Equity Exchange
 PRETTY PRAIRIE, Security Elev. Co.
 PROTECTION, Park Hatchery
 RICHMOND, Farmers Home Coop. Merc. Society
 RUSSELL, Bergen & Davis Feed & Seed
 SABETHA, Wenger Feed & Supply Co.
 SAFFORDVILLE, North Grain Co.
 ST. FRANCIS, Roylston & Son
 ST. MARYS, Farmers Union Coop. Assn.
 SALINA, McMinn & Tanner Feed & Produce
 SAVANAH, Savannah Feed Store
 SCOTT CITY, Durrant Seed & Supply
 SEDAN, Sedan Seed House
 SEDGWICK, Behymers-Sedgwick Hatchery
 SEDGWICK, J. O. Coombs & Son
 SELKIRK, Collinwood Grain Co.
 SEVERY, Arnold & Colyer
 SHARON, The Imperial Flour Mills Co.
 SHAWNEE, Shawnee Hatchery
 SPRINGHILL, Springhill Grain Co.
 STAFFORD, Stafford Hatchery
 STANLEY, Boyd & Maelzer
 STERLING, Farmers Coop. Union
 STILLWELL, Mosey & Son Feed Store
 STOCKTON, Bouchey Grain Co.
 SYLVIA, Sylvia Coop. Assn.
 THAYER, Potter Locker and Feed Store
 TONGANOXIE, Trospers Feed Store
 TOPEKA, Emory T. Shimer Feeds & Seeds
 TOPEKA, J. R. Shimer
 TRIBUNE, Tribune Grain Co.
 TROY, Winzer Hdwe.
 TURON, Turon Hatchery
 VALLEY CENTER, Valley Center Farmers Elevator Co.
 VALLEY FALLS, Reichart Elevator
 VIRGIL, Virgil Feed & Coal
 WAKEENEY, The Wheatland Elevator
 WASHINGTON, Davison Grain Co.
 WATERVILLE, Wagar Produce
 WATHENA, Wathena Hatchery
 WAVERLY, J. R. Baxter Produce
 WELLINGTON, Newell's Feed Store
 WELLSVILLE, Averill Produce
 WHITE CITY, White City Grain Co.
 WHITEWATER, Whitewater Hatchery
 WICHITA, C. Ball Feed Co.
 WICHITA, Barry's Hatchery & Feed Store
 WICHITA, Hillside Feed & Seed Store
 WICHITA, Kellogg Brothers Feed & Seed
 WICHITA, Maxwell Feed & Hatchery
 WICHITA, Watts Grain & Feed Co.
 WILSEY, F. S. Riegel
 WINFIELD, Wallace Feed Store
 WINONA, Wheatland Elevator
 WOODBINE, Reed's Store
 YATES CENTER, Yates Center Elevator Co.
 ZARAH, Zarah Grain & Elev.
 ZENITH, The Goenner Hatchery
 ZENITH, The Zenith Cooperative Grain Co.

See 'Em Lay... in Purina Stores

Again Purina dealers all over the country are starting their hens in the famous "Purina Lay and Pay Contest." Five or more handsome pullets will prove by their day to day records that good birds well fed the Purina way can lay a lot of profitable eggs. Prove your poultry ability. Go in soon and tell your Purina dealer which hen will lay the most eggs. It's fun—and costs you nothing.



EL DORADO, The Home Grain Co., Inc.
 ELK FALLS, O & B Oil Co.
 ELKHART, Elkhart Coop. Equity Exchange
 ELLIS, The Wheatland Elevator
 EMPORIA, Peak Feed & Seed Co.
 ESSON, Eban Feed & Seed Co.
 ESKRIDGE, Converse Farm Service Co.
 EUREKA, C. T. Agrellius Feed Co.
 FONTANA, Barnes Feed & Seed Store
 FORD, Ford Cooperative Exchange
 FT. SCOTT, Chas. Geist Feed & Seed Co.
 FREDONIA, Cox Produce & Grain Co.
 GARDNER, Western Terminal
 GARDNER, Gardner Grain Co.
 GARLAND, Pfeiffer Produce
 GARNETT, A. H. Fawkes & Sons
 GAS CITY, Goodsell Hatchery
 GIRARD, Potter's Hatchery
 GLADE, Quanz Grain Co.
 GOODLAND, Terminal Grain Co.
 GREAT BEND, Barton County Hatchery
 GREELEY, Rommelfanger Produce
 GREENSBURG, Security Elevator Co.
 GREENOLA, Gwinup's Produce
 HALSTEAD, Farmers Coop. Grain & Merc. Co.
 HAMBURG, Bruce General Mds.
 HARPER, The Imperial Flour Mills Co.
 HARVEYVILLE, Harveyville Grange Coop. Business Association
 HAYS, Engel Hatchery
 HAYSVILLE, Haysville Elevator & Supply Co.
 HERINGTON, Continental Grain Co.
 HIAWATHA, Wolf Feed & Grain Co.
 HIGHLAND, Moore Farm Supply
 HILLSDALE, Fessenden Grain Co.
 HOLTON, Farmers Union Coop. Assn.
 HOPE, The Farmers Coop. Elev. & Sup. Co.
 HOXIE, B. J. Rueschhoff
 HUGOTON, Security Elevator Co.
 HUMBOLDT, Humboldt Coop. Assn.
 HUTCHINSON, Barry's Hatchery & Feed Store
 HUTCHINSON, Orth's Feed & Seed Co.
 HUTCHINSON, Salt City Hatchery
 HUTCHINSON, Security Elevator Co. B.
 INDEPENDENCE, Star Mill Co., Inc.
 IOLA, Allen County Feed & Prod.
 IONIA, Ionia Produce
 JUNCTION CITY, Hart Bartlett Sturtevant Gr. Co.
 KANOPOLIS, George Andrews
 KANORADO, Kanorado Cooperative Assn.
 KANSAS CITY, Brougham Feed Co.
 KANSAS CITY, Crawford Hatcheries
 KANSAS CITY, Dyer & Co.
 KANSAS CITY, Precht Feed Store
 KANSAS CITY, State Ave. Merc. Farm Store
 KANSAS CITY, Frank Wells Feed Store
 KANSAS CITY, KANS., Busch's Feed Store
 KANSAS CITY, KANS., Precht's Feed & Seed
 740 Kansas Ave.
 KANSAS CITY, KANS., Rockhill Market,
 4710 Metropolitan
 KENSINGTON, Levin Bros.
 KINCAID, Dunlap Produce
 KINGMAN, Goenner Hatchery
 KIOWA, OK Coop. Grain & Mercantile Co.
 LA CROSSE, Farmer's Union Coop. Merc. & Elev. Co.

McPHERSON, Community Feed & Seed
 MEADE, Friesen Grain Co.
 MEDICINE LODGE, The Imperial Flour Mills Co.
 MERRIAM, Merriam Feed Store
 MERRIAM, Leland Wilson Hatchery
 MICHIGAN VALLEY, Bulmer Grain Co.
 MINNEAPOLIS, Golden Rule Hatchery
 MINNEOLA, Minneola Coop. Exchange
 MONTEZUMA, Security Elevator Co.
 MONUMENT, Wheatland Elevator
 MORAN, Benbrook Produce
 MORSE, Morse Grain Co.
 MOUND CITY, Ward Produce
 MOUNDRIE, Moundrie Coop. Elev. Assn.
 MT. HOPE, Independent Produce
 MULVANE, Moore Grain Co.
 MUNCIE, J. E. Puett
 NEODESHA, Linn Grain Co.
 NEWTON, Barry's Feed & Supply Store
 NICKERSON, Farmers Coop. Elevator Co.
 NORTON, N. L. Johnson Grain Co.
 NORWICH, Goenner Hatchery
 OAKLEY, Wheatland Elevator
 OBERLIN, Earl C. Wilson & Sons
 OLATHE, Farmers Coop. Union
 OSAGE CITY, Lafferty Grain & Produce Co.
 OSAWATOMIE, Osawatome Feed & Produce Co.
 OSBORNE, L. M. Newman



Clyde Lasswell, Emmett, Kans., and Jim Smith, feeding advisor for the Farmers' Union Co-op Business Association, Purina dealer in St. Marys, Kans., stand on a hill overlooking the feedlot where Lasswell

runs from 200 to 300 steers every year. "My cattle sure stay on feed well with Purina Steer Fatena. A man needs a supplement like Steer Fatena to keep 'em on ensilage," he states.

CALAMITY CAL...

...by ed smith & bill sims

Thoughts TO LIVE BY

"The All-Seeing Eye"

ACCORDING to an old legend, a man once took his boy out to steal watermelons. As they went down the road, the father tried to indoctrinate his son in this evil practice. First, find a good field. Then park the car just a little ways beyond it. That will avoid suspicion. Wait until the coast is clear before leaving the car. He meticulously followed his own instructions. It was not long until the car was parked, and they were both walking back along the edge of the road. Furtively the man looked all around him, and then he said, "Follow me," as he started hurriedly over the barbed wire fence. The boy paused and said, "Dad, there is one direction in which you did not look." Surprised and fearful, the man stopped where he was. "Which direction?" he asked. The boy pointed up.

The father had conditioned himself to do anything he could get away with. The boy had learned to live in the presence of God. He knew there was an all-seeing eye. It was more important to him to win the approbation of God than to avoid the penalty of the law.

Knowing about the all-seeing eye makes a big difference in life. Someone criticized Phidias for wasting time. He was meticulously working on the details of the figures on the pediment of the Parthenon. "No one will see the back of their heads," people said. To which Phidias replied, "But the gods will." Ah, this pagan artist of antiquity had reason for being a genius.

The author of the 139th Psalm knew the utter impossibility of fleeing from the presence of God. In the Revised Standard Version, we read:

*Whither shall I go from thy Spirit?
Or whither shall I flee from thy presence?*

*If I ascend to heaven, thou art there!
If I make my bed in Sheol, thou art there!*

*If I take the wings of the morning
and dwell in the uttermost parts
of the sea, even there thy hand
shall lead me, and thy right hand
shall hold me.*

*If I say, 'Let only darkness cover me,
and the light about me be night,'
even the darkness is not dark to thee,
the night is bright as the day;
for darkness is as light with thee.*

—Larry Schwarz

Marriage of Cousins

By CHARLES H. LERRIGO

MARRIAGE is a social rite of such tremendous importance I often wonder at the carelessness with which so many people step into it. I think it a sign of advanced thinking and higher education that so many of our readers are nowadays writing us for information. Many of the questions pertain to the marriage of cousins. Why can't first cousins marry? How about second cousins? Where does the degree of relationship that involves any danger cease? Is there any sense to this ban upon marrying of cousins, or is it perhaps a religious notion or a superstition?

Marriage of cousins has been under ban for so long I cannot say definitely as to its origin. Whether it came thru

church or state, I suspect that its real prompting grew out of disastrous experiences disclosed by actual fact. It is not superstition. It is not even religion. It is stern experience, and back of it is natural law. It is based upon the truth that all men are imperfect beings.

Explains Old "Curse"

If 2 perfect beings were mated, the fact they were cousins would not affect their offspring unfavorably. There is no "curse" to consider except the curse that comes from man's own imperfections. When cousins marry, these natural defects are so magnified thru inbreeding that a matter that seems small in the progenitors becomes gigantic in the offspring. Thence come nervous symptoms, organic deformities, the development of mental quirks that are classified as insanity.

When the degree of kinship is limited, there is less tendency for defects of identical character to be increased. So it is that second cousins may find

little grief from intermarriage and lesser degrees of kinship, none at all. But people of like defects may give birth to defective offspring even tho there exists no known relationship. This is especially true of those having the misfortune to fall heir to defects of specific disorders of the nervous and mental systems. It is fair enough for the prospective bride or groom to exchange certificates of health, to help insure a healthy, happy marriage.

Plan Handling of Liquid Fertilizer

The 1953 State Legislature passed a measure, signed into law, providing the State Board of Agriculture shall adopt rules and regulations for safe handling and storage of liquid fertilizers, and naming a state advisory committee to assist in preparation of regulations.

Secretary Roy Freeland announces this new group: W. H. Honstead, associate professor, chemical engineering department, Kansas State College; Clyde Latchem, State Fire Marshal, Topeka; George F. Klein, Jr., chief engineer, Spencer Chemical Co., Pittsburg; Floyd E. Reinhardt, R and R Tank and Supply Co., Pratt; Ray Roeder, special agent, Hartford Accident and Indemnity Co., Topeka; George O.

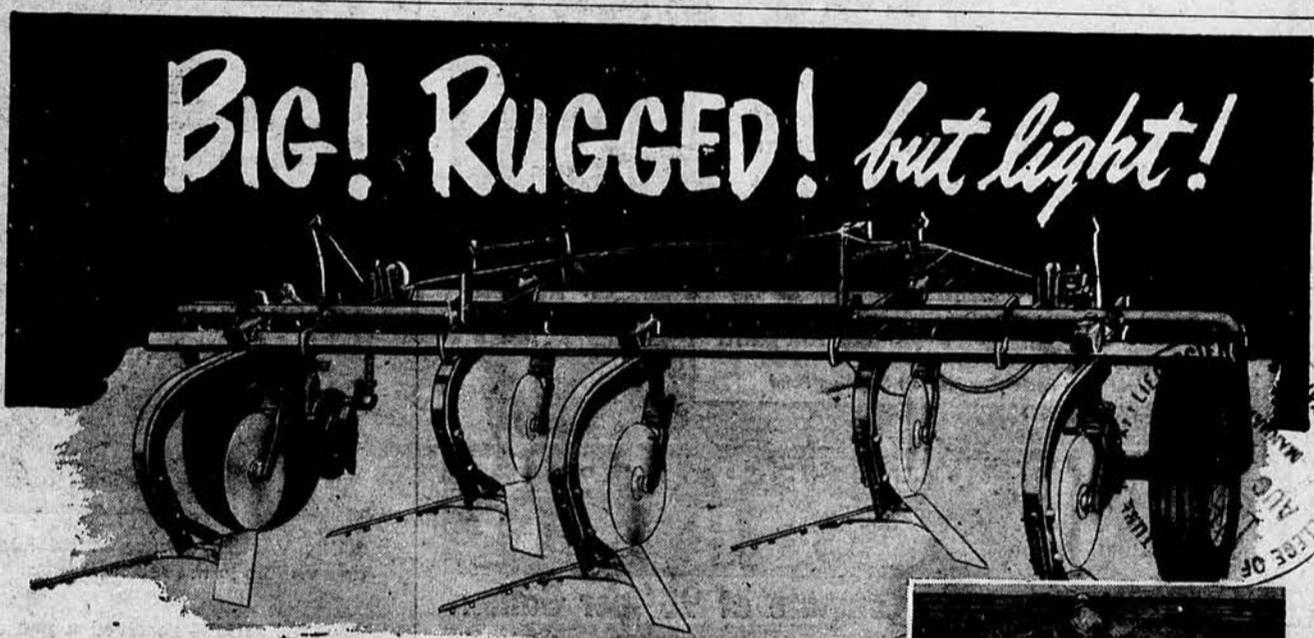
Trends in Livestock

"Trends in Livestock and Meat Industry in Kansas" is a 36-page bulletin of Kansas Agricultural Experiment Station, Manhattan, which tells of trends and future possibilities of the industry. As a service to readers, a copy may be ordered thru Farm Service Editor, Kansas Farmer, Topeka, Kan. No charge. Ask us to order Bulletin 355.

Gigstad, Nortonville Nitro Fertilizer Co., Nortonville.

Proposed regulations on liquid fertilizer handling, storage and transportation have been prepared. Following suggestions and recommendations from over the state, the State Board of Agriculture will take such action as may be deemed advisable, as to change or adoption.

The proposed regulations affect the following: tank trucks, semi-trailers and trailers for transportation of liquid fertilizers; systems mounted on farm vehicles for transportation of liquid fertilizers; systems mounted on farm vehicles for application of liquid fertilizers; cylinder systems.



DEMPSTER

NO. 100-12

NEW HEAVY DUTY 12 FT. CARRIER WITH DOUBLE POWER LIFT

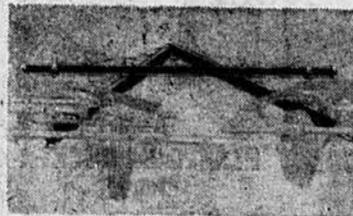
Greatest strength per weight ever built into a carrier — most versatile in its uses, greatest in its capacity — that's the new Dempster No. 100-12 Heavy Duty 12 ft. Carrier. It's the big, rugged, simplified, double tool bar, double power lift addition to the famous Dempster No. 100 Series.

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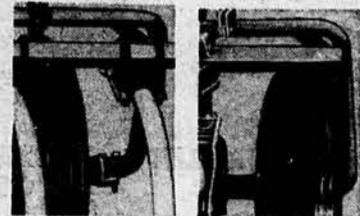
For deep sub-soiling, stubble mulch tillage, listing, cultivation, weed eradication, planting and fertilizer application, the Dempster No. 100-12 is the ideal carrier. Dempster attachments, specifically designed for each purpose, are available and can be quickly mounted on the double tool bars. The 12 ft. rear square bar permits the use of more tools, greater flexibility of spacing.



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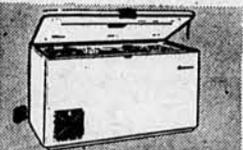
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No Money Auction at CK Ranch Draws Hundreds to Bid for Prized Beef

By GORDON WEST



THESE FARM YOUTH from 8 Midwest states show their keen interest in active bidding for top-quality beef animals at second annual "No Money" auction July 25, at CK Ranch, Brookville. Gooch Red Circle Points served as money.



JOHN VANIER, owner of CK Ranch, Brookville, right, addresses bidders and visitors to the second annual "No Money" auction, held July 25.

FARM YOUTH received a pat on the back, a big boost in raising some top-quality beef, and some sound advice July 25. Youth from 8 Midwest states were at CK Ranch, at Brookville, for the annual "No Money" auction, sponsored by John Vanier, owner of CK Ranch, with bids based on Gooch Red Circle points from Gooch feeds and food products. A total, 2,100 persons attended. Forty purebred Angus and Hereford calves went to successful bidders from a group of 66.

Claire Ferguson, Clearfield, Ia., was top bidder, giving 22,200 points for a Hereford calf. Successful Kansas bidders include: Jane Burns, 13, Harper, 460 points for an Angus, DIY 4-H Club; Ronnie Burton, 12, Plainville, 650, Hereford, East Plainville 4-H Club; Warren Campbell, 13, Geneseo, 5,800, Hereford, Thompson Creek 4-H Club; Don Frick, 14, Tampa, 525, Hereford, Tampa Triplet 4-H Club; Carolyn Guard, 16, Asherville, 725, Hereford, Asherville Achievers 4-H Club; Larry Hassler, 10, Detroit, 960, Hereford, Detroit Ramblers 4-H Club.

Ben Handlin, 17, Geneseo, 410, Angus, Wide Awake 4-H Club; Bruce Hedstrom, 12, Burdick, 7,200, Angus, Burdick Hustlers 4-H Club; Larry Nelson, 13, Winfield, 14,600, Hereford, Pleasant Valley 4-H Club; Johnny Reese, 9, Salina, 5,200, Hereford, Willing Workers 4-H Club; Jim Sherman, 14, Salina, 1,275, Hereford, Willing Workers 4-H

Club; Deanna Slusher, 13, Council Grove, 14,900, Angus, Big John 4-H Club; Duane Wilken, 10, Modoc, 6,000, Hereford, Lucky Clover 4-H Club; Ralmond Wohler, 11, Westmoreland, 10,200, Angus, Strong 4-H Club.

Bidders came from Kansas, Missouri, Oklahoma, Montana, Colorado, Nebraska, Iowa and Wyoming. Fifty-two 4-H'ers were there and 14 FFA members. Youngest bidder was 9 years old and oldest, 18 years. Kansas led all states with most successful bidders—14—followed by Oklahoma, 11; Iowa, 6; Nebraska, 4; Colorado, 3, and Missouri, 2. Highest bid was on 22,200 points, and lowest, 410 points, with the average successful bid being 7,836 points. Friends, parents, relatives and neighbors who use Gooch feed products helped their young friends to gather points to take to the auction. Several Flying Farmers flew in to bring in a neighbor boy or girl to take part in the auction. The proud new owners of prized stock will carefully manage their animals to show at many Midwest fairs and shows. John Vanier, owner of CK Ranch, addressed the youthful group, and advised them to work hard, learn to make decisions, make some mistakes and learn from them. As long as there is interest in his "No Money" auction, Mr. Vanier said, he will hold this unique and colorful event. Many of the bidders personally thanked the well-known stockman for sponsoring the auction.

PROPOSED 4-H CLUB MOTTO

In 1927 the national 4-H Club motto—"To Make the Best Better"—was officially adopted, first proposed by Carrie Harrison. She was a USDA botanist.

MARKETING VIEWPOINT

By LEONARD W. SCHRUBEN

I am on vacation and will write the marketing viewpoint from different parts of the North American Wheat Belt. Plans are to go north from Western Kansas to Edmonton, in Canada, and thru the Pacific Northwest wheat area.

A frequent question Kansas farmers raise is "Why doesn't the market pay each farmer a premium for high-protein wheat?" Much can be said by way of an answer. In Montana, wheat farmers are supposed to receive a premium for high-protein wheat, so their system will be discussed.

Montana has a law which requires grain buyers to pay a premium for high-protein wheat. When a farmer sells wheat a protein test is run. The base or card price plus the market premium or minus the discount is the settlement price. Sometimes the market pays a large premium and sometimes not.

One purpose of the system is to reward those who produce high-quality wheat and discount poor-quality wheat. Thus, farmers have an incentive to produce high-quality wheat. However, it does complicate the marketing system.

These tests are run at 3 protein-testing laboratories in Montana. One is located in Helena at the state capital. Another is in Bozeman at the state agricultural college, and a third is in Great Falls in the main wheat-producing area. The laboratories are similar to those in Kansas. They are operated by the state. A fee, to cover cost, is charged for each test. It may take as long as 10 days to get results of a protein test which may hold up final settlement. It also requires additional book-keeping by the grain dealer which adds to cost of marketing wheat.

Kansas has protein-testing laboratories farmers can use. If a farmer has high-protein wheat, he can usually receive the regular market premium if his grain dealer doesn't have to mix it with other wheat. The loan program also provides a higher price support for high-protein wheat.

Thank You

I read *Kansas Farmer* and enjoy it very much. Get a good deal of help from it and look forward to it. Have had it for a long time and wouldn't do without it.—Mrs. John J. Koop, Rt. 1, Marion Co.

Use These Alfalfas

Three alfalfa varieties adapted to Kansas conditions are Kansas Common, Buffalo and Ladak, report Kansas State College agronomists. Selection depends on soil conditions and other area-like circumstances.

Buffalo, a newer variety developed at the college in co-operation with the USDA, is from an old strain of Kansas Common. It has bacterial wilt resistance, but old strains of Kansas Common, which have become adapted to climatic conditions, succumb to bacterial wilt. Ladak is a winter-hardy variety that produces a large part of its annual hay yield early in the season. It has some promise where moisture conditions are most favorable early in the season.

Appoint Kansan

A 1951 home economics journalism graduate of Kansas State College—Gail Hill—has joined the agricultural information staff of Michigan State College, under Earl Richardson, another KSC graduate, who is in charge of all agricultural information there. Her appointment in home economics publicity was effective July 1.

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6. Pumping water, grinding feed, filling silos, drying crops, irrigating, sawing lumber, operating auxiliary harvester engines
7. Tractor fuel and flame weeding
8. Stock tank heating
9. Cutting torch
10. Protecting fruits and vegetables from frost



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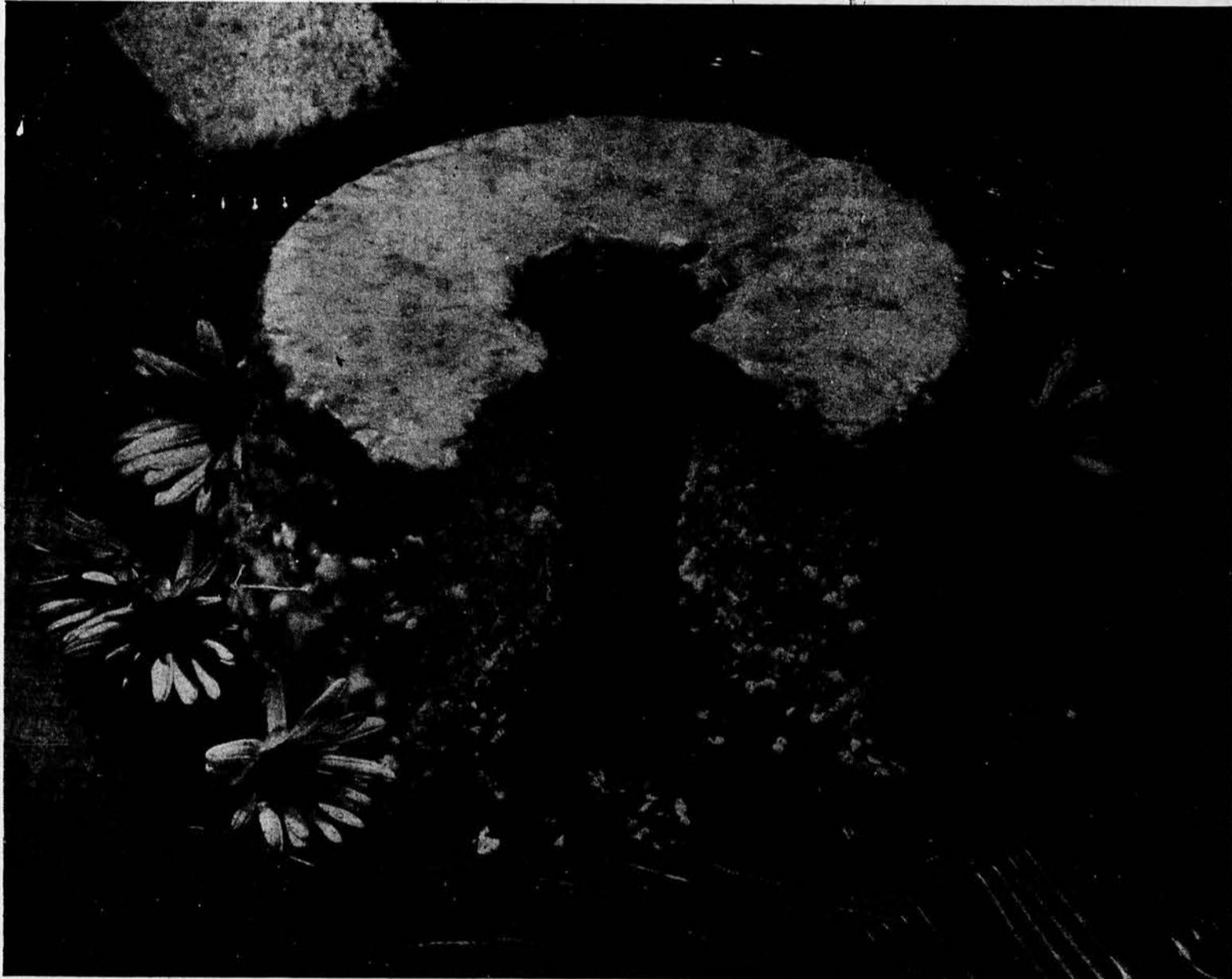
Is your gas tank big enough? Ask your dealer to check its capacity against the uses you are making of LP-Gas. He'll recommend the right size for your load. Then have your storage filled immediately to insure plenty of fuel for winter.

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Kansas Farm Home and Family

By FLORENCE MCKINNEY



The 1952 Class of Master
Farm Homemakers Give You

THEIR FAVORITE RECIPES

WE ASKED the last class of Kansas Master Homemakers for their old-time favorite family recipes and here they are. They're good to the last bite and we're happy to share them with you.

Angel Cake

Mrs. Frederick Warnken, of Reno county, says her family likes her angel cake for it's exceptionally light and tender.

¾ cup egg whites	½ teaspoon salt
1½ cups sugar, sifted	1 cup cake flour, sifted
2 teaspoons cream of tartar	1 teaspoon vanilla

Use day-old eggs at room temperature. Sift the cake flour, measure, then add one-half cup of the sifted sugar and sift together 3 times. Set aside.

Beat egg whites until frothy with a rotary or electric beater, add cream of tartar and con-

tinue beating with a wire whip until they hold their shape but are not dry. Again with wire whip, beat in 1 cup of sifted sugar, 2 tablespoons at a time. After 1 cup of sugar is in mixture, add vanilla and continue beating for 2 minutes. Then fold in flour and sugar mixture to the whites, 2 tablespoons at a time. After all flour is added, fold mixture for 2 more minutes. Pour in a large angel food cake pan and cut thru it several times with a knife. Bake in a preheated oven (375°) for 40 minutes. Cake rises very high and may crack on top. Turn it upside down over a long-necked bottle. When cool ice with following icing.

Icing:

1 cup sugar	1 tablespoon light corn sirup
¼ teaspoon cream of tartar	½ cup water
½ teaspoon salt	1 egg white
2 tablespoons flavored gelatin	

ICING ON ANGEL CAKE may be made in any flavor, depending on your choice of flavored gelatin.

Put all ingredients in top of double boiler and cook, beating constantly until mixture forms peaks. Spread on cake. Serves 10 to 12.

Sunday Rolls

Sunday rolls, just as good any other day of the week, are easy to make and never fail. reported Mrs. John Vallentine, Clark county.

1 cake compressed or 1 package dry granular yeast	1 teaspoon salt
2 cups lukewarm water	3 tablespoons shortening
⅓ cup sugar	7 cups sifted flour (approximately)

Crumble yeast into lukewarm water and let stand 5 minutes. Add sugar, salt and shortening. Add part of flour gradually and mix well. Add enough more flour to make a moderately stiff dough. Turn dough out on lightly floured board and knead until smooth (5 to 8 minutes). Shape into smooth ball and place in greased bowl. Cover and let rise in warm place until doubled in bulk. Punch down and shape into rolls. Let rise until light. Bake in hot oven (425°). Makes 3 dozen rolls.

Chicken Dinner in a Dish

This recipe comes from Mrs. Dan Eastman, Chase county, who says it is a good way to use those too-big-to-fry roosters. Sometimes she prepares this when sending dinners out to the menfolks when they are working with cattle on the ranch. [Continued on Page 29]

KNOW YOUR BIRDS

By L. B. CARSON



The Mockingbird

*With clearest tones or rasping call
With notes unheard in music hall
They form the mocker's roundelay
On moonlit night or sunny day.*

GRANDMA was hopping mad. It was not that she did not like birds, for she did. We thought the mockingbird was her favorite for she enjoyed watching him make the rounds of all his vantage points; first the chimney, then the top of the big maple, over to the barn, always singing. She got many a chuckle when he chased the cat under the corncrib, dared the bulldog to come out from under the cellar door, or flushed the chickens from their chosen dusting spot under the rambler rose.

She did not object to his nesting in the grape arbor, next to the strawberry bed and would have been the first to help defend the nest against snakes, squirrels or blue jays. Neither did she resent his eating a few strawberries now and then when he was not busy chasing other birds out of the mulberry trees. But this time he had gone too far. She would not stand for his dive-bombing attacks on her weather-beaten sunbonnet which she wore while picking strawberries. To us, this was fun, but not to Grandma.

The mockingbird's aggressive ways lead him into major and minor battles. In summer he defends his nesting territory and feeding ground against all comers. Winter finds him guarding either bird feeders or any natural food which he has discovered. After satisfying his own hunger, he will sit for hours and guard the supply of food, just to keep other hungry birds away from what he considers his own food supply.

He often drops into a flock of feeding birds, not because he's hungry, but just to watch them scatter. A bully, yes . . . but you have to admire the way he can take care of himself even on coldest winter days for he does not choose to migrate to warmer climates.

Few birds devote as much time to singing as he does the mockingbird and none have more of a variety of notes. His song offers a series of notes and to this he adds whatever notes or noises he has heard. His imitations are loud and clear and it often is difficult to tell whether you hear the original singer or the mimicked version. If the song is repeated several times in quick succession, it probably is the mockingbird for that is one of his habits. A quick change to some other song also provides a clue. While they sing more actively during the breeding season, they can often be heard even on warm winter days in the warmer areas of their range. Many sing thruout the night.

He is a resident of most of the southern half of the United States and whatever traveling he does is only far enough to supply his requirements for food or nesting sites. He likes plenty of open space with a few trees and dense undercover and a ready supply of fruits, berries and insects to eat.

Altho curious and often aggressive, the mockingbird provides insurance to other birds for they are quick to sound an alarm when danger is in the neighborhood.

It nests from 4 to 12 feet above ground and uses such sticks, stems or other material which it gathers in the

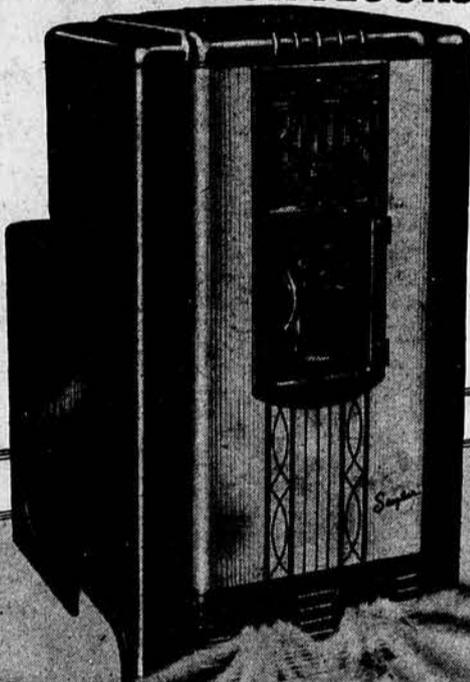
(Continued on Page 28)

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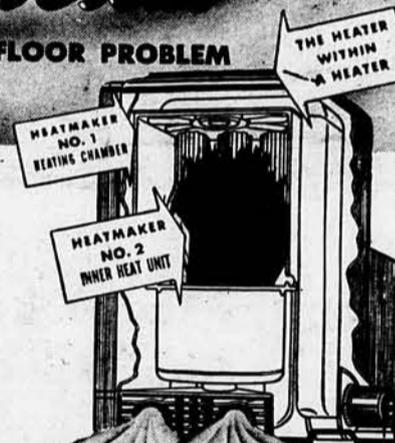
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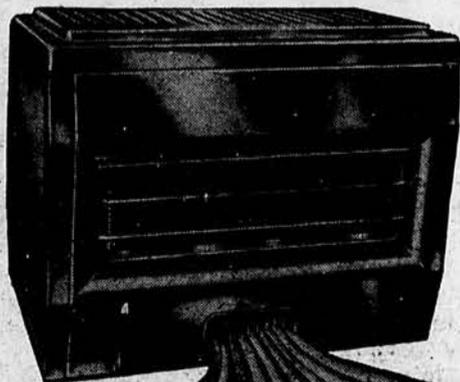
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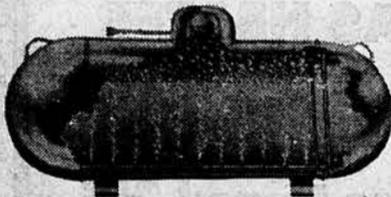
The same Mix-O-Gas Fuel System operates range, refrigerator, hot water heater, etc., and supplies economical fuel for trucks, tractors, etc.

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Know Your Birds

(Continued from Page 27)

vicinity. It is loosely constructed, but lined with moss, cotton or small roots and is ample for the 4 to 6 bluish-green eggs which are speckled with reddish-brown.

Mockingbirds are general favorites around farms, parks and suburbs for they destroy ants, flies, wasps, bugs, beetles, grasshoppers and have been known to eat both the boll weevil and the moth of the cotton bollworm. Those who want to attract this bird to their winter feeding station, find sliced apples, chopped figs, dried berries, raisins, nuts, suet and bread crumbs mixed, or doughnuts are eaten with relish. Bittersweet, cedar berries, bush honeysuckle or multiflora rose are some of the natural foods which this bird likes best.

Gray and white plumage of the mockingbird is distinctive especially the white flash or the white markings in flight. Only shrikes and Townsend's solitaire resembles him; but remember that the shrike has a black mask while the smaller solitaire has yellow wing bars, distinctive eye ring and is a much trimmer bird.

**Our Readers
Want to Know**

I am reading the bird articles with pleasure as I am a lover of birds and in a small way an observer. First, I wish to ask concerning a brown bird in my vicinity. In all aspects he is like a mockingbird, except that he is brown. I did not know there was such a thing as a brown mockingbird. It scolds cats exactly like them and has the long tail.

Second, for the brief period of the dandelion growth, we had swarms of little yellow birds which fed upon the seeds. Were these wild canaries? — Roberta Miles.

The brown bird which reminded you of a mockingbird is the brown thrasher and since the mockingbird belongs to the same family it has similar habits. The other member of this group found in your area is the catbird which is slate gray with a black cap and brown under-tail coverts. All are wonderful singers, but the brown thrasher's song runs more to doubled notes instead of the tripled notes of the mockingbird or the single notes of the catbird. It does not imitate other birds' songs as frequently as the other members of this family.

The brown thrasher is largest of this group and prefers brushy dry thickets or woodland borders for his home, while the catbird likes dense shrubbery with vine tangles near streams. The mockingbird likes an open area with few trees but dense shrubbery such as multiflora rose nearby for protection.

The little yellow bird which fed on dandelion seeds is the American goldfinch which is often called "wild canary." This is a permanent resident but in winter the yellow fades into an unstreaked olive brown, then the dark wings with 2 distinctive wing bars is the key to identification. They have the distinctive finch flight which is undulatory and while flying it utters a call which sounds like "per-chic-o-ree." Weed seeds form the major food. This-tle seeds are liked and the goldfinch often is pictured in this habitat.

Birdhouses

Now is the time to build birdhouses for next year. They will be well-seasoned by spring. We have ready for you a new leaflet called, "Learn How to Build Birdhouses." It gives complete instructions with drawings for building houses for martins, wrens, chickadees, tree swallows, robins, bluebirds and wood ducks. Send 5 cents to Farm and Home Service Editor, *Kansas Farmer*, Topeka. Ask for "Learn How to Build Birdhouses."

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SIZES
14½-24½

9087—Slim, trim lines to flatter the shorter, fuller figure. Easy to sew. Half sizes 14½ to 24½. Size 16½ takes 4½ yards 35-inch fabric.

9013—Smart classic to wear morning, noon and night. Lends itself to many smart ideas. Misses' sizes 12 to 20 and 30 to 42. Size 16 takes 4½ yards 35-inch fabric.

4513—Mix and match complete wardrobe. Easy sewing, new fashion details, 2 different sleeve versions. Junior miss sizes 11 to 17. Size 13 jumper, 2½ yards 54-inch; blouse, 1½ yards 39-inch fabric.

4855—Smart classic with tabbed pockets, cavalier collar, deep-set sleeves. Misses' sizes 12 to 20 and 30 to 42. Size 16 takes 4½ yards 39-inch fabric.

4621—Three-part wardrobe to mix and match a dozen different ways. Child's sizes 2, 4, 6, 8, 10. Size 6 jacket, 1¼ yards 35-inch nap; jumper 2½ yards; blouse 1 yard 35-inch fabric.

9138—Gay working apron to protect you from spots and splashes. Hold-all pockets, plenty of coverage, nonskid straps. Sizes medium 36-38; large 40-44; extra large 46-50. Medium size takes 2½ yards 35-inch fabric.



4855
SIZES
12-20
30-42



4621
SIZES
2-10



9138
SIZES
M-36-38
L-40-44
Ex. L-46-50

Patterns are 30 cents each. For first-class mailing, add 5 cents more for each. Address Fashion Editor, *Kansas Farmer*, Topeka, Kansas.

Their Favorite Recipes

(Continued from Page 26)

By placing the pan in a paper-lined box, it keeps hot for hours and with salad and dessert makes a full meal.

- 1 large chicken, cut up
- 1/2 cup fat
- 6 large potatoes, halved
- 6 medium carrots
- 2 onions, sliced
- 1 cup cream
- 1 cup flour
- 1 tablespoon salt
- 1/2 teaspoon pepper
- 1/2 teaspoon paprika

Melt fat in heavy pan with tight cover. An iron Dutch oven or roaster is best. Place flour and seasonings in paper bag, add chicken, a few pieces at a time and shake to dredge. Brown in fat, turning to brown all sides evenly. Put onion slices on top of chicken and add cream. Place vegetables on top and sprinkle with salt and pepper. Cover and lower heat to simmer and cook for about 45 minutes or until vegetables are tender. Serve chicken on large platter surrounded by vegetables and make gravy in the pan. Serves 6.

Cheese Salad

Mrs. E. N. McLeod, of Marshall county, sends us her recipe for cheese salad, one of her family's favorites.

- 1 package lemon-flavored gelatin
- 1 1/2 cups hot water
- 1 tablespoon vinegar
- 1 teaspoon salt
- 1 cup grated cheddar cheese or 1 cup cottage cheese
- 1 1/2 cups salad dressing

Dissolve gelatin in hot water, add vinegar and salt. Chill until cold and sirupy. Place in bowl of cracked ice or ice water and whip until fluffy and like thick whipped cream. Combine cheese and salad dressing and fold into gelatin mixture. Turn into molds, chill in refrigerator. Serve on crisp lettuce. Serves 10.

Amber Apple Pudding

Mrs. Harold Staadt, of Franklin county, copied a very old recipe from her mother's cookbook. "I ate it many times in my childhood and enjoyed it each time, perhaps all the more for the poetic wording." Here it is in its original form.

Take of apples that outblush the cheek of Hebe, 6 large. Slice them thin as the shimmer of ice that flashes upon the bosom of your water pail in chill November. Grate a quantity (1 1/2 cups) of bread crumbs, fine as the drift of Sahara sands. Spread unto yourself within a buttered earthen pudding dish, alternate layers of apples and crumbs, sweetened with brown sugar (1/2 cup) and savory with nutmeg, a sprinkle; yea, even moistened with water, (1/2 cup). And when the gentle heat of a moderate oven (300°) hath held your pudding one hour, or until the apple is soft as the cheek of happy infancy, eat ye of it, garnished with sweetened cream. (Raisins may be added, if desired.) Serves 8.

Orange Pudding

Mrs. Clarence Dickhut, of Scott county, says she has made this orange pudding ever since she began house-keeping. It's extra good.

- 1 cup sugar
- 1/2 cup butter
- 1 egg
- 1 cup buttermilk or sour milk
- 1 teaspoon soda
- 1 teaspoon salt
- 1 3/4 cups flour
- 1 cup seedless raisins
- Grated rind of 1 orange
- Grated rind of 1 lemon

Cream together sugar and butter. Add egg and beat well. Sift all dry ingredients together and add alternately with milk to creamed mixture. Dust raisins with flour and add with

grated lemon and orange rind to mixture. Combine thoroly and pour into oiled baking pan. Bake in preheated moderate oven (375°) until it holds up firmly when pressed with the finger.

Topping:

Remove from oven and over it pour juice of 1 orange and 1 lemon into which 1 cup of sugar has been dissolved. Leave in pan and serve hot or cold. Top with spoonful of whipped cream if desired.

Little Girls

Little girls like trailing clothes
And shoes with wobbly heels,
They like . . . with smallest reason . . .
To dissolve in squeals!
Little girls like mirrors
And certain favorite toys
And little girls, right from the start,
Like little boys!

—Mary Holman Grimes.

Fragrance

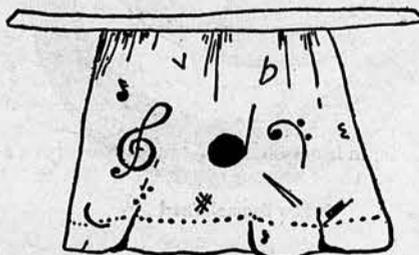
Subtle perfume, incense rare,
Mignonette and waxen pear,
Spiced rose petals sweet with age
Redolence of rain-washed sage,
But fragrance forms, elusive, fleet . . .
Is the clean fresh smell
Of a wind-dried sheet.

—Bertha R. Hudelson.

Apron for Gift Or Bazaar

Look at a piece of music for the designs on this gift apron. Place the various symbols to suit your taste or follow the arrangement in the figure shown here.

Make your apron of medium weight unbleached muslin, vary the length to suit the size and taste of person to receive it, allow for a deep hem and gather it onto a narrow band long enough for a tie.



Draw the designs directly on the cloth if you have confidence, otherwise on paper and trace on the cloth over carbon paper. A button makes a good circle for the notes. Use a ruler for all the straight lines.

Then embroider in gay colors. The bass clef is navy blue, the treble clef,

cherry red. Applique the notes in solid colors of cloth, adding spots of color, then outline in black. Add a pocket or two if you choose and add a design to them.

If you like to paint textiles, you may decorate this apron in less time. An apron for little sister with musical symbols made like mother's will delight her. Music is for all ages and does not change with the season.

An Easy Way

To keep pecan meats whole, pour boiling water over whole pecans and let stand for 30 minutes before cracking. Meats may then be removed from shells practically whole.

Home Freezing of Fruits and Vegetables

Here is the complete up-to-date leaflet on home freezing. Covers the job from start to finish. To get this free USDA Home and Garden Bulletin No. 10, address Farm and Home Service Editor, *Kansas Farmer*, Topeka, Kan. Ask for Home Freezing of Fruits and Vegetables."



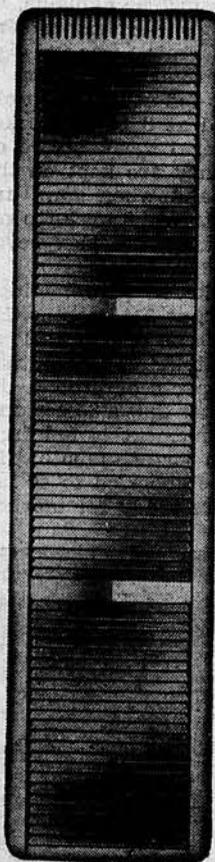
Designed with Rural Winters in Mind . . .



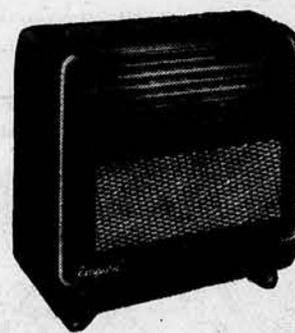
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APPLIANCES

No Boom!
No Bang!
No Tick!



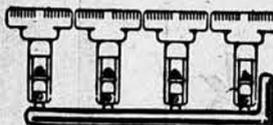
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WALL UNIT



GAS CIRCULATOR
HEATER



THE FAMOUS



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WITH AN EXTRA SET
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CANNING**

and
FREEZING

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It's up when you buy it.
It's down when sealed.

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Wheeling, West Va.

A perfect seal. Strong and safe for all approved methods of modern home canning and freezing. Easy to use and to open. No rubber rings required. Only the lids need replacing. Fit all standard mason jars, but only ATLAS Jars come with ATLAS Arc-Lids. Insist upon ATLAS — Caps and Jars. FREE— Write for complete freezing information.

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If you have Farm Machinery or Equipment, you do not use setting around

A CLASSIFIED AD WILL SELL IT

Only 10c a Word — 12 Words Minimum



A sitting duck

Yes, a bird perched on a telephone line is a mighty inviting target . . . but please don't shoot! One stray shot could break the wire and interrupt important long distance conversations.

Good hunting! But it will help if you are careful not to shoot at birds on telephone lines.

Hold your fire, save the wire!

SOUTHWESTERN BELL TELEPHONE CO.



Hog Business Is Looking Up

(Continued from Page 1)

reduction in fall farrowing this year over the Nation should mean continued improvement for those who stayed in when the going was tough.

Bad as it was in 1952 for hog producers, however, a few broke even or showed a profit. Clarence Abbett, of Doniphan county, says: "My hogs paid me a better return on my investment in 1952 than anything else I raised."

During 1952, Mr. Abbett sold 213 hogs for a gross return of \$8,300 and had a feed cost of \$5,645. His hogs on the market brought all the way from \$17 to \$22 a hundredweight, and he bought most of the corn fed at prices ranging from \$1.68 to \$2. "Quite a lot of it cost me \$2," he recalls.

Mr. Abbett, who has purebred Durocs but sells all his hogs on the commercial market, got into purebred hogs thru his 2 oldest children, Gerald and Ruth. Back in 1948 these 4-H'ers borrowed money from the bank and bought 3 purebred Duroc gilts. Then they borrowed all the money for feed. "At the end of the year," says Mr. Abbett, "they had paid off all their bills and had \$230 in the bank. That sold me."

Actually Mr. Abbett bought some of the pigs from those 3 gilts and paid the children \$75 apiece for them. Now he has built up his herd to 26 sows and gilts to farrow this fall.

No Secret About It

The road to profits in the hog business is no secret and is well defined, thinks Mr. Abbett. It starts out with good breeding stock. "You have to have stock that will gain," he explains. "I keep the farrowing sheds clean and am there when sows farrow. Sows and pigs are put on clean ground in 10 days."

"Pigs are creep-fed at one week old and are castrated at 8 to 10 weeks; are wormed either 1 week before or 2 weeks after. They are kept on the creep on range and when sows are brought in off pasture at 8 weeks to get ready for rebreeding, the pigs never miss them," says Mr. Abbett.

He likes to market his pigs weighing 210 to 225 pounds at 5½ months. He uses commercial feeds having a 20 per cent protein level the first month, then cuts back to 16 per cent protein the second month. After that a 35 per cent sow and pig supplement is fed free-choice with grain for one month. The supplement then is boosted to 40 per cent until pigs are ready for market.

When supplement is fed free-choice in this manner pigs actually regulate the amount to their needs, says Mr. Abbett. Their average protein intake will vary from ½ to ¾ pound daily.

The Abbett children have done well showing their hogs at fairs and shows, too. Larry had the first place Duroc and reserve champion barrow at the St. Joseph Interstate Baby Beef and Pig Club Show in 1952. Carol had second place Duroc and third place pen of Durocs, while Ruth had fourth place pen of Durocs.

In 1951, Carol had reserve champion pen at the Tri-County Fair, Horton, and Ruth had champion pen at the county fair at Highland.

It's an Experiment

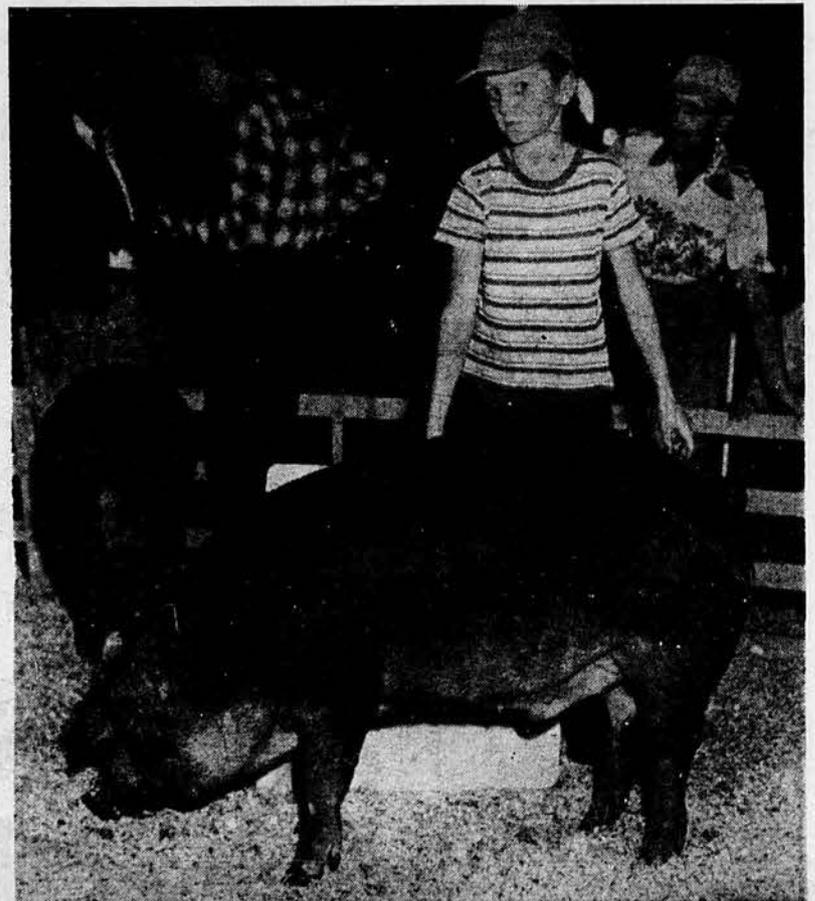
The hog business is looking up, too, on the Harlan Deaver farm, Brown county. Mr. Deaver has taken on Shannon Nickelson as a tenant under a stock share lease, and they now have 12 purebred Spotted Poland sows that will be handled on a 2-litter-a-year basis. The present sows are having their fourth litters this fall, but instead of being bred to a Spotted Poland boar have been bred to a purebred Berkshire as an experiment.

There are 2 bright spots on the Deaver farm this year so far as hogs are concerned. "We had an excellent corn crop last year, which solves our grain problem," says Mr. Deaver, "and we boosted our litter size on spring pigs this year over last by 2. Our 12 sows saved 100 pigs this last spring for an average of 8½ compared to an average of 6.2 a year ago."

How come the improvement? Mr. Deaver and Mr. Nickelson don't know for sure, but believe it is due to several changes in management. "We're using older sows this year," says Mr. Nickelson, "and have been a little more particular about the sows' rations. We started feeding them extra protein a little earlier. We used pig brooders and one of us was with the sows day and night during farrowing."

"We get the sows into pens early enough to quiet them before farrowing. They are given a good wash-down and the hoghouse is thoroly cleaned and disinfected. We used hydrated lime on the alley in our central farrowing house the first few weeks after farrowing to prevent tracking in disease."

(Continued on Page 31)



THE ABBETT children all do well in the show ring. Here, Larry Abbett is shown with his first place Duroc barrow at the 1952 Interstate Show, St. Joseph, Mo.



PRODUCING HOGS at a profit starts with good breeding stock, like these purebred Duroc sows and gilts, says Mr. Abbett.

Brooders on the Deaver farm are simple, cheap and effective. The operators get soap barrels and cut them in half. A lightbulb inserted thru the bottom provides heat, and a square hole cut in one side makes an entrance for pigs.

Pigs are castrated at 4 or 5 weeks and vaccinated 1½ weeks later before being wormed. All pigs in the last litters were weaned at the same time so all sows could be brought in at one time. Pigs at time of weaning ranged from 7 to 9 weeks old.

Pasture is relied on heavily on the Deaver farm to produce thrifty hogs at a minimum of cost and labor. "A one-acre patch of Sudan grass provided pasture for 12 sows and 20 fattening pigs for a 2- or 3-week period this summer," says Mr. Deaver. "Sows stayed on for a longer period." Rye is used for spring pasture, alfalfa and Sudan in summer and alfalfa on into the fall.

Pigs are kept on creep when with sows. At weaning time they are put on a mixture of oats and 35 per cent protein, with mineral and salt fed free choice. When they average about 75 pounds they are put on a special balanced ration worked out by Iowa State College, at Ames.

"Our self-feeders are the biggest labor-savers we have," says Mr. Nickelson. "The one we use holds 140 bushels. Another self-feeder of 35-bushel capacity holds the proteins, while minerals are fed in concrete basins."

Discussing the hog business Mr. Deaver and Mr. Nickelson see a trend toward meat-type breeding stock and

heavier use of pasture to get away from excess lard. They also believe lard-type hogs can be grown out a little leaner by feeding less corn and taking a little longer to put them on the market. "Biggest obstacle to producing meat-type hogs is the time required," says Mr. Nickelson. "If you take too long it interferes with your breeding program and results in too many hogs of wide age range on the farm at one time."

These Folks Won In Dairy Contest

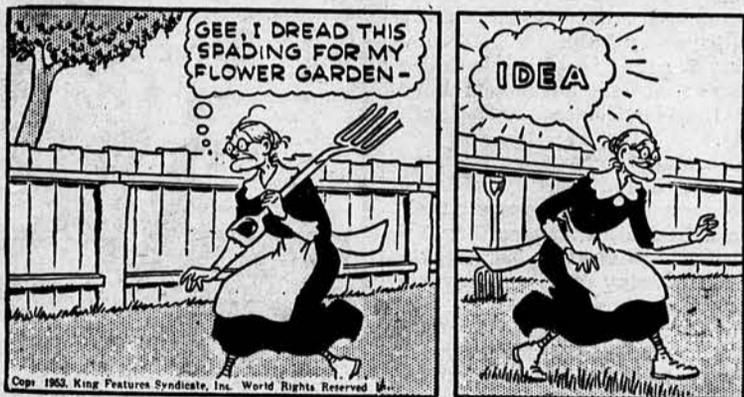
Here are more results in the *Kansas Farmer Dairy Judging Contests*.

Kaw Valley Guernsey Show, Lawrence: Olaf Eckman, Baldwin, 1st; Eldon Hoyt, Homewood, 2nd; E. E. Graham, Topeka, 3rd; Wilbur Buockway, Wellsville, 4th and Bill Ranson and Mrs. Bill Ranson, Homewood, tied for 5th.

Name Civic Leader To State Position

The Weights and Measures Department of the State Board of Agriculture has appointed George Hamilton, Horton, to a new staff position at Wichita. Mr. Hamilton, prominent Hereford breeder for over 30 years, has been active in REA work, Horton Chamber of Commerce manager, and a civic leader.

GRANDMA By Charles Kuhn



IN TERMS OF THE COST OF YOUR COMPLETE IRRIGATION SYSTEM YOU CAN AFFORD TO BUY ONLY THE BEST PUMP— A PEERLESS PUMP

America's Largest Selling Deep Well Turbine Pump

PEERLESS PUMP DIVISION
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RED WING'S POPULAR 6-incher

with long-wearing, lightweight GRO-CORK SOLES AND HEELS also available with oak leather Soles and Rubber Heels

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Watch for this label: **the sign of a good shoe!**

Write for our valuable Booklet "Your Shoes" **RED WING SHOE CO.**
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MAKERS OF FINE QUALITY SHOES AND BOOTS SINCE 1905

Caught in the Squeeze?

If rising costs, and lowering farm prices are squeezing your profits, the new Towner "A" Plow may help you. This new plow is designed to plow faster, at less cost — and do a finishing job, too. Write for your free copy of "Open Field Plowing."

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NATIONAL Vitrified SILOS
Everlasting TILE
Cheap to install. Trouble Free. Also Tile Stave Silos. Outside Reinforcing.
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Aluminum FLEX-O-SEAL
Portable Irrigation Pipe

Drought need not burn away your profits. Light-weight, easy-to-handle FLEX-O-SEAL carries water where and when you need it most, saving crops and cattle in dry weather. Fast-action, flexible pressure-tight coupling assures quick assembly—makes pipe adaptable to level or rolling land without elbows or tees. Aluminum or Galvanized in 3, 4, 5, 6 or 8-inch diam. Write for FREE booklet and name of nearest dealer.

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Your Best Crop Insurance

Kansas Will Be Host to National Angus Show and Sale

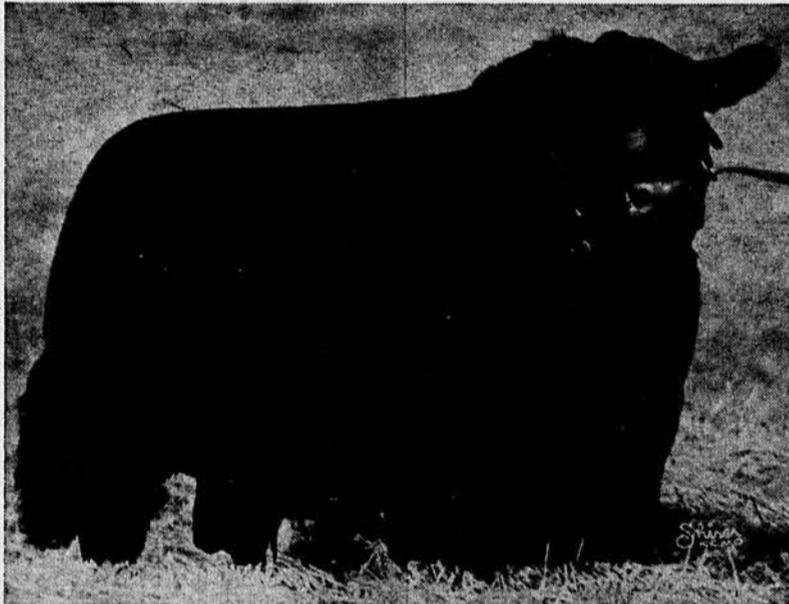
ABERDEEN ANGUS breeders from all over the United States will be coming to Hutchinson this fall. The National Aberdeen Angus Show is to be held during the Kansas State Fair, September 20 to 26. The event marks the 80th anniversary of the introduction of the breed to America, as well as 80th year since the first showing of Angus at an American fair.

A Kansan, George Grant, of Victoria, imported the first Angus to America, in 1873. He also introduced the breed to an American cattle show, and a monument to him and his efforts is located at Victoria. In 1873 he brought

4 Angus bulls from Scotland, for breeding purposes. Two of the bulls were exhibited at the Kansas City Fair.

Angus activities at the State Fair will include on September 21 a 4-H steer show, a showing of breeding classes on Tuesday and Wednesday, and placing of sale cattle on Wednesday afternoon. The sale will be on Thursday afternoon. The big banquet will be at 7 o'clock Wednesday night.

For details of activities of this national event, contact Lester Ljungdahl, Manhattan, fieldman for the Kansas Aberdeen Angus Breeders Association. He is in charge of arrangements.



A NATIONAL WINNER in 1952 was Prince 105 of SAF, Aberdeen Angus bull owned by Simon Angus Farm, Madison. This young bull was 1952 International Junior and Reserve Grand Champion bull, National Angus Show, Lincoln, Nebr., reserve champion bull, and grand champion bull at Kansas State Fair.



Dwight Hull SAYS . . .

Kansas Gets Into the Dairy Market Battle

KANSAS BECOMES the eighth state to officially approve a 12-month "check-off" of 2 cents per 100 pounds of milk or 1/2 cent per pound of butterfat sold, for advertising dairy products. Official action came at a state-wide meeting held July 28, in Topeka. This meeting was attended by a large representative group of dairymen and processors who voted unanimously for the 12-month "set aside" to start August 1, 1953.

There was much healthy discussion at the meeting regarding the organization and methods of procedure of both the American Dairy Association and the Kansas Dairy Association. But there was no one who voiced disapproval of the advisability of a "check-off" that would pay for a strong, everyday advertising program for dairy products.

Ray Alberts, who is staff member of the national association in charge of membership work, addressed the group as did Prof. F. W. Atkeson, head of the dairy department, Kansas State College. Mr. Alberts in a very sincere and enthusiastic manner told of the organization of the American Dairy Association and some accomplishments, as well as future plans. Among other things, Mr. Alberts pictured the work of ADA as a two-way street in which dairy farmers could present their ideas and suggestions for the good of their organization to the national office, where the working staff would prepare

materials and programs for radio, TV and newspaper advertising.

He stated one of ADA's most economical as well as effective means of advertising had been thru the co-operation obtained from several large firms such as Pillsbury Mills, Inc., Hershey Chocolate Corp., General Foods Corp., and others that have advertised dairy products in advertisements of their own products.

He also stated radio advertisement had been used and recently \$600,000 have been set aside as a start on TV programs. In fact, a Kansas City TV station is now presenting such a program each Tuesday and Thursday evenings.

Professor Atkeson, in his usual unique manner of combining good humor with facts, left no doubt in the

(Continued on Page 33)

Dehydrated Alfalfa

"Dehydrated Alfalfa" is a detailed, 64-page bulletin of the Kansas Agricultural Experiment Station, Manhattan, which tells of research and uses of dehydrated alfalfa. As a service to readers, a copy may be ordered thru Farm Service Editor, Kansas Farmer, Topeka. No charge. Ask us to order Bulletin 356.

ON THE ALERT

Use SAFE and EFFECTIVE

DR. SALSBUARY'S **Wormal**

The ONLY **POULTRY WORMER**
Containing New Drug **Butynorate**

TABLETS or GRANULES REMOVE ALL THREE

1. TAPEWORMS*
2. Large ROUNDWORMS
3. CECAL WORMS

(Tablets also remove Intestinal Capillaria Worms)

Won't Retard Growth or Knock Egg Production

Easy To Use—Low Cost

Wormal Granules mix easily in the mash for flock worming; or give Wormal Tablets to individual birds. Flock treatment costs about a penny a bird. Get safe, effective Wormal, today.

When you need poultry medicines, ask for **DR. SALSBUARY'S** of your hatchery, drug, feed, or poultry supplier.

DR. SALSBUARY'S LABORATORIES • Charles City, Iowa

3 out of 4 of Your Neighbors and Farmers all over the State Read **KANSAS FARMER**

Your Classified Ad Will Get RESULTS!

LIFTS MORE! LIFTS HIGHER!

DUNCAN LOADMASTER

FITS ALL ROW CROP AND CONVERTED WIDE FRONT END TRACTORS!

These Attachments are available for DUNCAN LOADMASTER:

- Dozer Blade
- Push-off Hay Stacker
- Hay Loader
- Snow Bucket
- "V" Type Snow Plow

Lifts up to 13 ft. Scoops below level of front wheels!

Write for Illustrated Folder

IRRIGATION PUMP COMPANY
COLUMBUS, NEBRASKA

BUY DIRECT FROM FACTORY AND SAVE

After 10 years of building Lawn Mowers, we have developed a sickle type mower that will cut fine grass or large weeds. Will cut grass as short as 1 inch. Especially built for Cemeteries, Parks and Schools. Mower has I.H.C. Les peders guards and sickle, which gives double cutting capacity. Center drive on sickle permits close cutting around curbs and shrubbery. When answering this ad type of mowers: Yards, Parks or Cemeteries.

SPECIFICATIONS

Width of Cut—36 in. Bearings—Timken. Power—3 H.P. Briggs & Stratton. Frame—Fabricated Electro Welded Steel. Differential—Auto Type Drives From Both Wheels. Drive—Standard Auto V-Belts. Gears—Machine Cut. Tires—400x8 Pneumatic. Self Propelled.

The F & H heavy duty 24" self-propelled rotary type lawn mower cuts fine grass or large weeds. Powered by a Briggs & Stratton 3 H.P. air-cooled engine. V-belt and roll chain drive. Timken bearing spindle. Electric welded steel frame. No castings to break. Automatic differential. pull from both wheels. proof V-clutch. All bearings and gears are unconditioned guaranteed for one year. Drive wheel 12"x3.00 self-pneumatic puncture proof. Front wheel 10"x2.00. Two blades with each machine. Only one nut to move to change blades. Satisfaction guaranteed. **Manufacturers of Power Equipment**

Foushee & Heckendorff
Cedar Point, Kansas

minds of his listeners as to the advisability, importance, and urgent necessity of beginning immediately a strong, forceful, every-day advertising program. Professor Atkeson pointed out the many advantages dairy products have to offer the consumer. He thought perhaps the biggest advantage, and the one that would strike home hardest, is the fact there is no food comparable to milk from a health standpoint, and none so vital in the growth and proper development of our children.

We feel the step taken at Topeka is the most progressive action in the interest of the dairy farmer at this time. While the vote at district dairy meetings held this spring as well as the state meeting was unanimous in favor of this forward step, we feel there are still many producers of dairy prod-

ucts in the state who have not yet caught the vision of such a program. Much follow-up work will need to be done in order to get all to participate in the program.

Also, there undoubtedly will be those who are impatient for results and will expect miracles to happen overnight. This is a long-time program with results coming gradually and over a period of years. It will, therefore, be up to dairymen who believe in the program to make use of every available opportunity to convince those who are doubtful and encourage the impatient.

The Kansas Dairy Association will need not only the support but the ideas and suggestions of the dairymen of the state, so the organization may become the voice of the dairy farmers and that it may grow and progress in keeping with the need of the times.

TOP SPOT IN ALL JUDGING



HIGH TEAM in all judging at recent Future Farmers meeting in Manhattan: Cherryvale, Adamson, high individual in all judging. Left to right, Robert M. McClaren, C. H. Young, coach; Carl Hamilton, alternate; Roger Adamson and John Townsell.

To Show Value Of Fertilizers

For field test demonstrations, Thurston Chemical Company will have available for distribution in Kansas this year TVA fertilizer products. These are sold thru selected commercial distributors for specified new and improved uses of fertilizer by farmers. Main objective is to show the value of an improved soil fertilization program. Uses to be made of TVA fertilizer in Kansas were agreed upon by representatives of Kansas State College, USDA agencies and fertilizer distributors. These will contribute most to a better and more productive land use.

Test-demonstration farmers make use of the new material as recommended by land-grant colleges. These recommendations deal with time, rate, and method of application, balance of plant foods, and crops on which fertilizer should be used. Following these recommendations frequently involves a shift from low-yielding crops, such as lespedeza, to such crops as alfalfa and red clover. Increased production,

reflected in high income, lowers the net cost of fertilizer per unit of production.

In order to consolidate test demonstrations as much as possible, certain selected uses have been agreed upon. Selected uses for Kansas which have been agreed upon by representatives of Kansas State College, USDA and distributors and TVA are:

1. Pasture renovation and improvement.
2. Establishment of grasses and legumes on eroded land.
3. Fertilization of sod waterways.
4. Fertilization of brome grass and other grasses for seed production.
5. Fertilization of wheat for winter pasture.

Thurston Chemical Company, working with TVA, believes such a program will mean a better understanding and utilization of commercial fertilizer in Kansas.

Thurston made available to Kansas State College \$5,000 for soils and grassland studies. This study is being conducted at Kansas State College experimental farm which was established at Ottawa, last year. Results obtained by such test demonstration as these can mean much to furthering agricultural progress thruout the state.

I WONDER HOW THAT STARTED . . .

"Don't Put the Cart Before the Horse"

This old saying which means don't put the order of things in reverse, goes back to ancient days of Greeks and Romans. Also, the saying appeared in English, in Dan Michel's "Remorse of Conscience," translation of a French treatise written by Laurentius Gallus, in 1279. This popular quotation first was used as "To set the plow before the oxen."

EDITOR'S NOTE: What's your favorite saying? Send it in, we'll try to find its origin, and tell you about it in this box. Joan Amos, Colby, asked us to trace this one.—R. H. G.)



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SUNFLOWER IBB-262'

(Increases Bacteria by Billions)



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About Aug. 25

IN MESA COUNTY, WESTERN COLORADO

Colorado has a reduced crop of Peaches this year, but Mesa County, the state's chief producing area, has an Almost Normal crop, and will surely Need Peach Pickers in 1953.

Adult male pickers, physically able, are preferred, but many willing, capable women and teen-agers can obtain picking employment. Smaller crop this year assures fine quality fruit.

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Clean, comfortable living quarters FREE on many ranches. Modern, low-cost accommodations at industry-maintained Labor Camp Only \$5 a Week per Family unit. Camp provides beds, mattresses, stoves, lights, water fuel, laundry facilities, children's playground. Or, if you own camping equipment, bring it along. And be prepared to take home, or can here after Harvest, plenty of wonderfully-flavored, sweet, juicy, tree-ripened COLORADO Mountain-Grown PEACHES.

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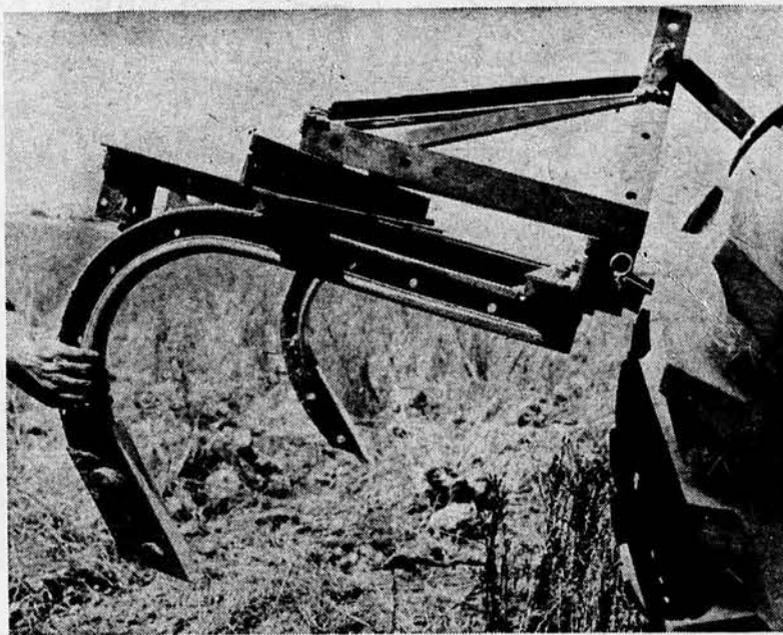
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Ideas Will Solve Problems

(Continued from Page 4)



MERL BARNES, Woodson county, uses this homemade chisel as part of deep-tillage program he hopes will boost crop yields.

Main lesson we learned here was that the pasture now is usable and that great success in killing sumac was evident. Mr. Reynolds pointed out that a new theory on pasture clearance now is to spray just enough to get the pasture back in production. Don't try to kill everything at once. Then, with pastures again in use, income can be used to respray every 4 or 5 years and keep brush under control.

Arthur Jockman, Anderson county, is enjoying the best hay with the least amount of work he ever has experienced. Back in 1951 he equipped one barn with a hay dryer and can store 120 tons of dry hay. He found by chopping his hay after only a short wilt, and putting it in the barn immediately, he could put up 17 acres of hay a day with 2 men and 2 children making up the crew. "I believe it cuts the labor cost in two, and the labor that's left is pretty mild compared to some of the older methods of haying," he says. Mow drying works best if fed where stored, Mr. Jockman says. "If you have to feed your hay at some distant point from storage you had better bale it."

Like New Hay Loader

And speaking of baled hay, we found several farmers and custom operators who own a new-type baled hay loader. This loader can be attached to a truck and the motion of the truck does the rest. As the truck drives past a bale of hay 2 sideboards straighten the bale. Then 2 mechanical hands pick it up and hoist it onto the truckbed where one man can stack. Tom Holmes, of Garnett, says they use this stacker for custom work, find it a big labor saver.

Lloyd Jefferson, Anderson county, is an enthusiastic convert in using brome-grass to cut costs of handling his beef herd. Twenty-five acres of brome last fall provided for 25 head of cows and 22 calves until December 1. Then the cattle were put in fields around the farmstead to forage but were fed brome hay from the previous summer. "I fed this brome hay twice a day along with

mineral and salt and that's all they got," he said. The herd went back onto brome pasture March 1 and stayed until the first week in May. In June, when we called on Mr. Jefferson, he was looking forward to harvesting a fairly good seed crop. "I am so sold on brome as a good investment," he says, "I am expanding my acreage to 80 acres this year."

By doing all their labor Mr. and Mrs. Vernon A. Bowman, Anderson county, recently built a 22- by 28-foot grade-A milking parlor for less than \$1,100. The new barn has 3 elevated stalls in line with central controls for both stanchions and doors. The building is constructed of a new mortarless, interlocking, concrete block. Stanchions are homemade of pipe.

"Gully Farm" Coming Back

Walter Strong, Allen county, is busy bringing into productivity an 80-acre farm he recently purchased. This place was known as the "gully farm" and was just that, according to County Agent Joe Devine and Work Unit Conservationist Fred Kruger. Mr. Young has bulldozed in the gullies, applied 3 tons of lime an acre, terraced 14 acres, and is establishing one central waterway.

"My final goal," says Mr. Strong, "is to get the entire 80 acres into tame and native grasses within 5 years. Right now I'm using oats and sweet clover and wheat, all heavily fertilized, in an effort to build up the soil enough to establish the grasses."

Clayton Peck, of Woodson county, hasn't figured out for sure yet just why it took him 3 years to get a satisfactory lamb crop. "The first year I got only 28 lambs from 34 ewes," he says. "Next year I increased the flock to 73 ewes but lost 11 ewes from turning them out on green pasture the next morning after drenching. Other problems kept down the lamb crop and I only marketed 50 lambs."

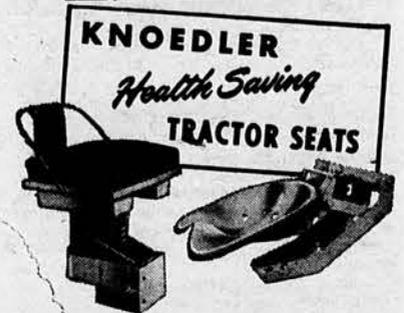
This year things were different for Mr. Peck. He has just marketed 64 lambs from 57 ewes and his first load brought \$28.25 a hundredweight to top the market for truck-ins.

"I think my better luck this year was due to better management," says Mr. Peck. "Last year ahead of breeding I did a better job of flushing the ewes. I wormed for the first time and put ewes on clean pasture about July 1. These changes helped pay off when marketing time rolled around this spring."

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COMING EVENTS

August 15—Kearney County Saddle Club dance, Rainbow King skating rink.
 August 15-16—Kearney County Saddle Club Rodeo, Rodeo Grounds, Louck's Park.
 August 16-18—Franklin County Fair, Lane.
 August 16-18—Pottawatomie County Fair, Onaga.
 August 17—Cheyenne county 4-H Club demonstrations contest, St. Francis Grade School, 9:00 A. M.
 August 17-19—Cloud County Fair, Glasco.
 August 17-19—Miami County Fair, Paola.
 August 17-19—Wyandotte County 4-H Fair, Bonner Springs.
 August 17-20—Miami County Fair and Horse Show, Paola.
 August 17-20—Pawnee County 4-H Club Fair, Larned.
 August 17-21—Osborne County Fair, Osborne.
 August 18—Kearney county annual 4-H Club Fair demonstration, home economics judging contest, best groomed boy contest, style revue, Lakin Rural High School.
 August 18—Morton county 4-H Club tour to take pictures for 1954 "Who's Who?" and pick blue ribbon projects eligible to be entered in State Fair.
 August 18-19—Gray County 4-H Club Fair, Ensign.
 August 18-20—McPherson county 4-H Club Fair, McPherson 4-H Club Building.
 August 18-20—Woodson County 4-H Club Fair, 4-H Club fairgrounds, Yates Center.
 August 18-20—Pawnee County 4-H Club Fair, Larned.
 August 18-20—Doniphan County 4-H Club Fair, Highland, 10 A. M. to 5 P. M.
 August 18-20—Butler County Fair, El Dorado.
 August 18-21—Jackson County Fair, Holton.
 August 18-21—Sherman County Northwest Kansas Fair, Goodland.
 August 18-21—Trego County Fair, Wakeeney.
 August 18-21—Neosho County 4-H Club Fair, Erie.
 August 19—"Queen of the Day" annual celebration, Marysville.
 August 19—Annual 4-H Club Show, Sabetha.
 August 19—Hamilton County Straight Shooters 4-H Club tour, Coolidge.
 August 19—Haskell County land judging school, near sublette, 12:30 P. M.
 August 19-20—Finney-Haskell counties Old Settlers Picnic, Garden City.
 August 19-21—Howard Fair, Howard.
 August 19-21—Stafford County Fair, Stafford.
 August 19-21—Elk County Howard Fair, Howard.
 August 19-21—Harper County Agricultural Fair, Harper.
 August 19-21—East, Cowley County Fair, Burden.
 August 19-21—Franklin County Richmond Free Fair, Richmond.
 August 19-21—Morris County Fair, Council Grove.
 August 19-21—Phillips County 4-H Club and FFA Fair, Phillipsburg.
 August 19-21—Osage County Fair, Osage City.
 August 19-21—Comanche county 4-H Club Fair, Protection.
 August 19-22—Russell County 4-H Club Fair, Russell.
 August 20—Cheyenne County 4-H Club style revue and best groomed boy contest, St. Francis High School, 8 P. M.
 August 20-21—Rawlins County 4-H Club and FFA Fair, 4-H Club building.
 August 20-21—Edwards county 4-H Club Fair, Kinsley.
 August 20-22—Linn County Fair, Mound City.
 August 21—Comanche county 4-H Club fat livestock sale, Protection, 8 P. M.

August 20-22—Sedgwick County Fair, Cheney.
 August 21—Clark county land judging school, Ashland, 1 P. M.
 August 21—Hamilton county C-4 4-H Club tour.
 August 21-22—Kearney County 4-H Club Fair entries and judging exhibits, 4-H Club building, Louck's Park.
 August 23-26—Marion county homemakers camp, Rock Springs Ranch.
 August 24-26—Jefferson County 4-H Club Fair, 4-H Club fairgrounds, Valley Falls.
 August 24-26—Johnson County Free Fair, Gardner.
 August 24-26—Kingman County Fair, Kingman.
 August 24-27—Clark County Fair, Ashland.
 August 24-27—Crawford County Fair, Girard.
 August 24-28—Dickinson County Central Kansas Fair, Abilene.
 August 24-29—Allen County Agricultural Society Fair, Iola.
 August 24-29—Cherokee County American Legion Fair, Columbus.
 August 25—Cheyenne County 4-H Club livestock judging contest, St. Francis fairgrounds, 1 P. M.
 August 25-26—Franklin County Agricultural Society Fair, Ottawa.
 August 25-28—Atchison County Fair, Effingham.
 August 25-28—Cheyenne County Fair, St. Francis.
 August 25-28—Harvey County Fair, Newton.
 August 25-28—Lyon County Fair, Emporia.
 August 25-28—Rooks County Free Fair, Stockton.
 August 25-29—Bourbon County Fair, Fort Scott.
 August 26—Neosho county Extension council picnic, Chanute, 6:30 to 10 p. m.
 August 26—Rawlins county soils judging school, time and place to be announced.
 August 26-28—Scott County Fair, Scott County fairgrounds.
 August 26-28—Anderson County Fair, Garnett.
 August 26-28—Finney County Free Fair, Garden City.
 August 26-28—Leavenworth County Fair, Tonganoxie.
 August 26-29—Marshall County Fair, Blue Rapids.
 August 26-29—Wabaunsee County Fair, Alma.
 August 26-29—Ellis County Junior Fair, Ellis.
 August 27—Miami County clothing accessory lesson, all day, Paola.
 August 27—Labette County land judging school, 1 P. M.
 August 27-29—Overbrook Osage County Fair, Overbrook.
 August 27-29—Barber County Fair, Hardtner.
 August 27-29—Shawnee County Berryton Grange Fair, Berryton.
 August 27-29—Sumner County South Haven Fair, South Haven.
 August 28—Miami County 4-H Club home economics judging contest, all day, Paola.
 August 28—Sheridan County land judging school, Hoxie, 12:30 P. M.
 August 28—Norton County Demonstration Day, American Legion Hall.
 August 28—Elk county land judging school, Howard USDA building, 1 P. M.
 August 28-29—Greeley County 4-H Club Fair, Tribune fairgrounds.
 August 28-September 1—Ford County Great Southwest Fair, Dodge City.
 August 31-September 3—Osage County nutrition training school, Lyndon.
 August 31-September 4—Republic County North Central Kansas Free Fair, Belleville.
 September 1—Phillips county septic tank system demonstration, time and place to be announced.
 September 1-3—Riley County Fair, Manhattan.
 September 1-4—Marion County Fair, Hillsboro.
 September 1-4—Cowley County Free Fair, Winfield.
 September 1-4—Saline County Fair, Salina.
 September 2—Ellis County consumer education meeting, Hays.
 September 2-3—Miami County Paola-Osawatomie joint meeting on care of skin.
 September 2-4—Brown County Tri-County Fair, Horton.
 September 2-4—Coffey County Agricultural Fair, Herington.
 September 2-4—Douglas County Fair, Big Springs.
 September 2-4—Neosho County Thayer Fair, Thayer.
 September 2-7—Seward County Five State Free Fair, Seward County fairgrounds, Liberal.
 September 3-4—Franklin County Wellsville Fair, Wellsville.
 September 3-5—Sumner County Fair, Caldwell.
 September 4-6—Hamilton County Fair, Syracuse.
 September 4-7—Montgomery County Fair, Coffeyville.
 September 8—Cherokee County land judging school, Columbus 4-H Club building, 1:30 P. M.
 September 8-12—Morris County Tri-County Fair, Herington.
 September 9—Bourbon County land judging school, Fort Scott courthouse, Extension Hall, 10 A. M.
 September 9—McPherson County Malm Irrigation field day, 2 miles northeast of Lindsborg.
 September 9-11—Dickinson County Tri-County 4-H Club Fair, Herington.
 September 9-12—Cherokee County Mineral District Free Fair, West Mineral.
 September 10—Phillips County terrace maintenance and waterway shaping demonstration, time and place to be announced.
 September 10-12—Elk County Fair, Longton.
 September 10-12—Washington County Fair, Washington.
 September 11—Sumner County Belle Plaine Fair, Belle Plaine.
 September 12-18—Kansas Free Fair, Topeka.

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Easy Opening Spring Gate. Stay on your vehicle, pull cable, drive through and pull another cable, gate closes. Dealers wanted. Write for folder. Spring Gate Company, Lamont, Kan.

● FARM LANDS

800 Acre Rolling Holdrege silt loam, porous, drought resisting soil, no sand. Improved, excellent feeding lots, 60-A alfalfa, 200-A farm land, balance pasture land and building lots, 2 springs, 3 good wells, 6 dams. Will handle 100 cows and lot of hogs. Possession March 1, 1954. Can take in 50-70 head cattle now. No money down if you have 100 cows and equipment as security. 10 years time to right party at 5%. Owner retiring. Price \$42.50 acre. Just sold place like it to John Marquardt, Garden City, Ernest Young, Red Cloud, Neb.

Strout Farm Catalog Free! Farms, Homes, Businesses, etc. Over 3,200 bargains described, 31 states. World's largest, 53 years service. Strout Realty, 20-V West 9th St., Kansas City 6, Mo.

● SEEDS

New Early Kanlink seed wheat also Kanqueen—Redjacket—Bluejacket—Suppered. Reliable. High Yields—Quality—Test—Purity—Germination. Write Clark Blackhull Seed Farms, Sedgewick, Kan.

For Sale: Choice high altitude western Nebraska certified seed wheat—Cheyenne and Nebred \$2.70—Sioux \$2.90, cleaned and treated—book now. Lee D. Hagemester, Potter, Neb.

● FERTILIZER

AMMONIUM NITRATE FERTILIZER
Write, Wire or Phone
SALMON SALES CO., Clarkdale, Miss.

● HOME HEATING

Parts for All Stoves, ranges, heaters, furnaces. Fit guaranteed. Write for prices. Give make, model and part number. Omaha Stove Works, Dept. K, 1204 Douglas St., Omaha, Neb.

● EDUCATIONAL—BOOKS

AUCTION SCHOOL Learn Auctioneering 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
REISCH AUCTION SCHOOL, Mason City, Iowa

Learn Auctioneering. Term soon. Write for catalog. Missouri Auction School, Box 4746, Kansas City, Mo.

Fl. Smith Auction School, Fl. Smith, Ark. Term soon. Free catalog.

● DOGS AND SUPPLIES

Fleacollar, new, easiest way to kill fleas. Veterinary-approved. No fuss-trouble. Adjustable, easy to put on your dog. Kills fleas, relieves itching torment. Guaranteed effective. Postpaid 50c coin. John A. Lewis & Sons, Rochester 6, New York.

Beautiful Golden Collie Puppies, Eligible A.K.C. Purebred English Shepherds, Barnes, Collyer, Kan.

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

● FOR THE TABLE

MIXED FLOWER HONEY \$9.90
60-lb. Can FOB

Extracted—Pure as bees can make it.
60-lb. Can Clover, FOB... \$12.00
12-lb. Can Clover (Postpaid to 600 mi.)... 3.85
12-lb. Can Mixed (Postpaid to 600 mi.)... 3.50
Order Promptly — Supply Limited
HAHN APIARIES, 1715 Lane St., Topeka, Kan.

● FILMS AND PRINTS

8-exposure roll 1 each 25c, 2 each 35c. Reprints 3c each. 8-exposure roll JUMBO 35c, 3 5x7 enlargements for 50c, 4 8x10 for \$1.00. At your service for over 50 years.

SUMMERS STUDIO Unionville, Mo.

Wisconsin Film, West Salem, Wisc., include a roll of film, same size you send, with below offers. 8 Beautiful 4x6 glossy enlargements from your 8 exposure roll 40c. 12 snappy 4x4 enlargements from your 12 exposure roll 60c. You must enclose advertisement.

20 DECKLEDGE REPRINTS 50c
6-8 exposure roll developed and printed 25c; 12-exposure, 30c; Jumbo prints, 4c each.
TINY'S PHOTO SERVICE
Box 1068-KF Topeka, Kan.

No Charge for developing roll—pay for prints only—regular size 3c. Jumbos 4c. Refund on prints not good. Established 25 years. Square Deal Photo, Box 1153, Hutchinson, Kansas.

Eight-Exposure Roll printed one of each 25c; two each 35c; one each Jumbo 35c. Star Photo, Denver, Colo.

12 Jumbos, 35c; 8 Jumbos, 25c; 16 Jumbos, 50c, from roll or negatives with this ad. I. Skrudland, Lake Geneva, Wis.

● AGENTS AND SALESMEN

At Last! Something new and sensational in Christmas Cards. Make extra money fast! Show Satins, Velours, Metallics. Gets easy orders. Pays up to 100% cash profit. 30 free samples. With name 50 for \$1.50. Big line. Amazing new Glo-in-the-Dark Ornaments. Personalized Matches, Stationery. Several \$1.00 boxes on approval. Puro Greetings, 2801 Locust, Dept. 387-K, St. Louis, Mo.

Brand New! Amazingly different and smart Christmas Cards bring you big money! Take easy orders fast! Pays up to 100% cash profit. With name 50 for \$1.50. Big line. Sensational Glo-in-the-Dark Ornaments. Personalized Stationery, Matches. Several \$1.00 boxes on approval, imprints free. North Star, 31 Glenwood, Dept. 63-L, Minneapolis, Minn.

● BUSINESS OPPORTUNITY

Fast Growing Florida's excellent local markets mean more profits for you. You benefit from the year-round growing season, and the variety of soils and crops—plus living in Fabulous Florida's mild climate that's cool in summer, warm in winter. Investigate the farming opportunities in this rapidly growing agricultural state. Write direct to State of Florida, indicating your specific farming interests and requirements, and request your copy of beautifully illustrated booklet: Farm Opportunities in Florida. Get complete information without cost or obligation. Send your inquiry to State of Florida, 6227H Commission Building, Tallahassee, Fla.

For Sale: Grocery store with living quarters. In rich farm country. Rolland Mueller, Montpellier, N. D.

● PATENTS AND INVENTIONS

Don't Take Any Risks—Many inventors have lost their life savings trying in their own attempts to produce and market their ideas or inventions. Don't let your million dollar idea get away—get the most out of it! Send your idea or invention with a \$2.00 processing fee for each invention with a complete analysis by a selected panel of experts who will evaluate and consider your idea or invention for manufacturing and marketing. This is an exceptional offer—an opportunity to get competent and sincere opinions from our examining panel, all leaders in the fields of development, manufacturing and marketing. All correspondence kept in absolute confidence and fully protected by a corporation dedicated to promoting American enterprise. Acceptable ideas will be considered for production with royalties to you. Don't delay! Mail today to The Master Enterprise Corporation of America, Department C, Executive Offices, Boulder Building, Tulsa, Oklahoma. Members of Better Business Bureau.

A. 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 request.

● OF INTEREST TO ALL

"It Works" "New Rid-X really does clean and deodorize outdoor toilets." say thousands of satisfied users. New Rid-X is wonderful for septic tanks and cesspools too. Non-poisonous, harmless to plumbing. Money back guarantee. \$1.69 postpaid or C.O.D. Order yours today. Wilco, Box 294, Danville 2, Ill.

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

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.

Invalid Walkers—Designed for those afflicted with paralysis, arthritis, limb fractures; price \$35 or will rent. Write for information. Patterson Mfg. Co., Adrian, Mo.

● OF INTEREST TO WOMEN

Weavers—Write for low prices—carpet warp, rug filler, looms, parts, inexpensive beam counter. If you have a loom, give make and width please. Or. Rug Company, Dept. 7314, Lima, O.

Pinking Shears—Only \$1.95 postpaid. Chromium plated, precision made. Manufacturer's Christmas overstock. Guaranteed \$7.95 value or money refunded. Lincoln Surplus Sales, 529 Main St., Evanston 49, Ill.

Thrilling, Profitable Home Business. Make fast-seller, chenille monkey trees, dolls, flowers. Terrific holiday demand. Information free. Veiva, Bohemia 2, N. Y.

Embroider Stamped Linens. Buy direct from manufacturer and save. FREE 23-page catalog. Merribee, Dept. 281, 22 West 21st St., New York 10, N. Y.

Fairmount Maternity Hospital—Seclusion and delivery service for unmarried girls. Adoptions arranged; low rates; confidential. 4911 E. 27th St., Kansas City, Mo.

Pillowcases—Hand embroidered, hemmed, pique tubing. \$4. Mrs. Thos. G. Roberts, Rockland, Mich.

● REMEDIES—TREATMENTS

Arthritis and Rheumatism sufferers: Read "Crude Black Molasses" by Cyril Scott. One dollar postpaid. Harmony Book Shop, New Castle, Penn.

HAVE YOU HEARD?

KELLY RYAN "Spread-Away" manure spreader is a self-unloading feed or forage wagon, a utility wagon, and a high-speed trailer. All steel welded construction, with 1/4-inch steel plate bottom and heavy steel sides. Has 100-bushel capacity, increases to 150 when optional sideboards are added. Kelly Ryan Equipment Co., Blair, Nebr.

Burgess House, 426 S. 6th St., Minneapolis, Minn., has a new booklet out on their products for home, workshop, yard and car. Many useful items that save time, money, labor.

Case Model "500" Diesel Tractor is announced by J. I. Case Co., Racine, Wis. New, 6-cylinder model. Advan-



tages are: easy starting on diesel fuel; smooth, quiet operation; minimum maintenance and low-cost performance; heavy-duty, 7-bearing crankshaft; power steering; cleanable filter on fuel tank vent, deep filler-hole screen and water trap to keep dirt out of fuel.

Like maple sirup and honey? Carl Forslund, Inc., Grand Rapids 2, Mich., also has outstanding early American furniture. They have a new catalog out.

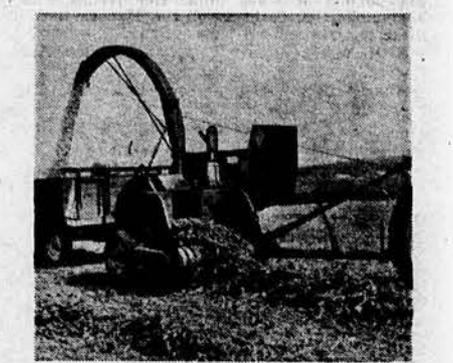
Owatonna Windrower is a new, self-propelled windrower of Owatonna Mfg. Co., Owatonna, Minn. Especially

adapted for the 1-tractor farm. Frees conventional 2-plow grain-farm tractor for windrowing, does job more economically. Made in 10-, 12- and 14-foot models and is powered by a 13 1/2 h.p., Model TF, Wisconsin engine, with speeds varying from 2 to 8 1/2 mph.

Butler Mfg. Co., Kansas City, announces a new 36-foot wide, rigid-frame, fire-safe building. Available in 20-foot units of length of 12-foot sidewalls. Has large 20-foot door.

Harry Ferguson, Inc., Detroit, Mich., has a new "High-Speed" mower featuring Ferguson "Dyna-Balance Drive," to produce smooth, quiet operation.

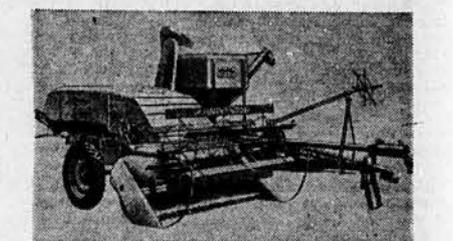
McCormick 20-C Field Harvester, shown below equipped with a hay pickup attachment, chops hay from



windrow at rate of 25 tons per hour. Pickup unit is quickly interchangeable with row-crop attachment. Can be equipped with either engine or PTO drive. International Harvester Co., Chicago.

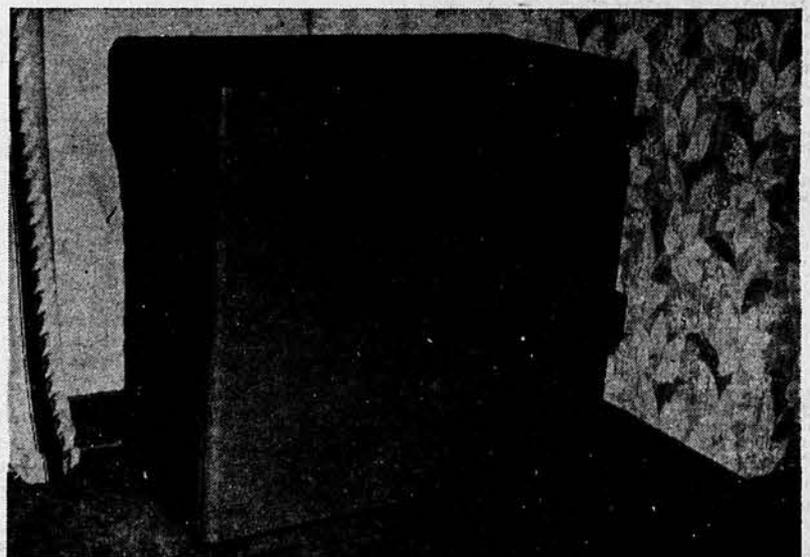
Rust Oleum Extra-Long Nap Lamb's Wool Roller is specially developed for recoating wire fences. Gives complete coating job. Does job easily. Rust Oleum Corp., 2799 Oakton St., Evanston, Ill.

Minneapolis-Moline announces new 88 Harvester—88-inch cutting swath; offset header trough; retractable finger



conveyor auger; 48-inch wide straw rack; 20-inch wide cleaning shoe with sloped grain pan; 17-inch diameter cylinder with 6 rasp bars; outside wheel adjustable 16 inches to avoid running one wheel on row for row crop harvesting; 20-bushel grain tank with quick unloading auger-type conveyor.

COOL COMFORT IN FARM HOME



HOME AIR CONDITIONER beats the heat on Joe A. Fox farm, near St. John. Two-ton unit sits in living room and cools whole house effectively, according to Fox. An auxiliary unit goes into operation when load on machine gets too great. Original cost of unit was \$1,200 plus installation charge. Unit also controls humidity, and family says it would sooner part with any piece of furniture in house.



In the Field

MIKE WILSON
TOPEKA, KANSAS
Livestock Editor

The Seventh Annual ALL-AMERICAN CORRIEDALE SHOW AND SALE was held at Columbia on July 27 and 28. The average on 39 rams was \$116. Seventy-one ewes averaged \$59. Top ram, the champion, sold for \$500. Reserve champion ram \$380. Champion ewe \$295. Reserve champion ewe \$165.

CRAMER'S BROWN TRINKET, an Ayrshire cow in the herd of Donald and Esther Alford, of Lawrence, produced the highly creditable monthly total of 63 pounds of butterfat during a recent month. This record placed her in first place among all high butterfat producers in the yearling class during the month. Trinket totalled 1,311 pounds of 4.8% milk. Her record was made under the direction of the Kansas State College and the official supervision of E. Ralph Bonewitz.

A registered Guernsey cow, Boehle's Queen's Mary, owned by W. O. Boehle, Lawrence, produced 9,088 pounds of milk and 493 pounds of butterfat, according to the official Herd Improvement Registry record released by The American Guernsey Cattle Club. "Mary" was a junior 4-year-old, was milked 610 times while on test. "Mary" is the daughter of the famous Guernsey sire, Quail Roost King Beau's Maxim, that has 29 sons and daughters in the performance register of the club.

MISSOURI SOUTHDOWN SHEEP BREEDERS held their sale at Hamilton, July 24. Carl O. Roda, secretary, Trenton, reports 42 head were sold for an average of \$36.64. Doak Brothers, Hallsville, consigned the high-selling ram, at \$80, to Faye McClure, Newton, Kan. Doak Brothers had the high-selling ewe, purchased by Waters Brothers, Norborne, for \$77.50. Continued dry weather curtailed prices. Condition of stock sold was good. Bill Emery, University of Nebraska, was judge. State Department of Agriculture furnished ribbons and premium money.

For several years the **KANSAS SUNFLOWER HEREFORD FUTURITY SALE** at Hutchinson has been one of the best association sales in America. Last year the Sunflower State Hereford breeders recorded almost 40,000 head of purebred Herefords to make it the second largest producing state of purebred Hereford cattle. The Kansas Sunflower Futurity nominations are due by August 15; mail to the Kansas Hereford Association, State Fairgrounds, Hutchinson, for their November 9 and 10 sale this year.

Annual picnic and field day of the **KANSAS MILKING SHORTHORN SOCIETY** will be held at Retnuh Farms, Geneseo, Saturday, August 22. Retnuh farms are located 3 1/2 miles east and 2 miles south of Geneseo or 7 1/2 miles north of the southeast corner of Mitchell on Highway 50N, between Lyons and Little River. Activities will start at 10:30 A. M. and at noon there will be a basket dinner. Bring a well filled basket and enjoy a day of fellowship.

Joe and Dorothy Hunter extend a special invitation to visit them on this day. As a special attraction Joe has decided to offer a few head at auction that day. See his ad in *Kansas Farmer*.

RAYMOND U. BRETHOUR, Clay Center, recently purchased the old Fowler & Tod Ranch, Maple Hill, from Phil Glunt. This ranch gained fame in Hereford circles in the days of W. J. Tod, who died in 1928. Mr. Tod, one of the outstanding livestock personages of the area, worked closely with George Fowler, son of the founder of the Fowler Packing Co., Kansas City, Mo., in the operations of this ranch and the Crosselle Ranch, in Northern New Mexico. This partnership was dissolved in 1911 and Mr. Tod took the Maple Hill Ranch and Mr. Fowler the New Mexico holdings. In 1927, Mr. Tod also purchased Crosselle. Herefords from these two ranches often were winners at leading national livestock shows. The Brethours expect to move to their 1,500-acre ranch early next spring. They will move some of their cattle from their Green, and Cedar Vale, ranges to their Maple Hill ranch. In the past, Raymond Brethour has operated with his brother, Leslie, as Brethour Bros.

The **EDWARD R. DREHLE MILKING SHORTHORN DISPERSAL SALE**, held at the farm near Great Bend, July 27, was well attended and cattle sold for good prices. Local demand was very good, as all cattle stayed in the state and all were bought by breeders and farmers west of Great Bend. Harold T. Clynne, Arnold, bought both top male and female. He purchased the good herd sire, Retnuh Imperial Model, for \$450 and an outstanding 2-year-old heifer that had just freshened and her heifer calf for \$545. He was the heaviest buyer, purchasing 4 lots totaling \$1,480. Andrew Wondra, Holington, purchased 4 lots for \$1,220, making him 2nd heaviest buyer. Three lots or more were purchased by the following buyers: James Hrabe, Jr., Plainville; Albert Burghart, Spearville and Virgil Wegener, Norton. Guest consignors to this sale realized good prices for their entries. They averaged \$232 on their consignments. Average of total sale was \$273. Joe Hunter read pedigrees. Gus Heidebrecht was auctioneer, assisted by Dale Lechlitter, Walter Otte and W. E. Dixon, national fieldman.

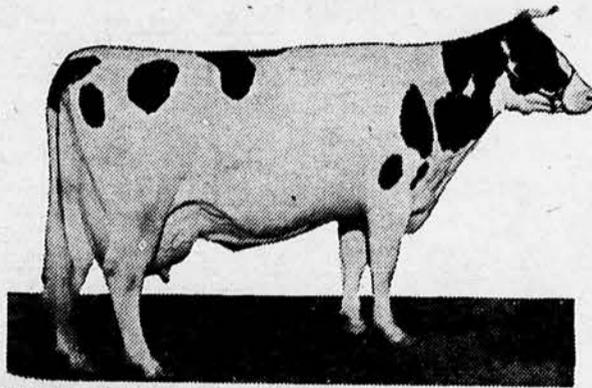
THE BLUE MEADOWS, Fredonia, and J. E. HUGENOT, Moline, sale, held at the Blue Meadows farm near Fredonia July 22, was very well attended, but bidding at times was conservative. Considering general conditions and age of animals offered, the average of \$172.00 on 43 lots was quite satisfactory. Thirty-four females averaged \$186; 9 bulls averaged \$105.50. Five of these were only 8 and 9 months old. Ten of the 43 were just a year old or less at time of sale. Roy Starbuck, Thayer, bought both top male and female at \$200 and \$275 respectively. Willis R. Sears, Chelsea, Okla., bought 3 head and the balance were bought by Kansas buyers. Local demand was very good. A number of the buyers invested in their first Milking Shorthorns, and the sale in general should make friends of the breed. Gus Heidebrecht was auctioneer, ably assisted by Dale Lechlitter and Don Marples. Bill Dixon, national fieldman, read pedigrees.

Public Sales of Livestock

- Aberdeen-Angus Cattle**
September 21—WRS Angus Ranch, Hutchinson.
September 24—National Aberdeen-Angus Sale, Hutchinson.
October 7—Kansas Aberdeen-Angus Association Feeder Calf Sale, Salina.
- Hereford Cattle**
August 19—Salina Hereford Sale, Gene Sundgren, Sale Manager, Salina.
August 24—Delmar Roberts Dispersion, Gove, Kan. Sale at Quinter.
August 31—Steeple Ranch, Belton, Mo.
September 1—Steeple Ranch, Belton, Mo.
September 5—Staight Creek Hereford Farm Dispersion & Farm Sale, Whiting, Kansas. Vic Roth, Box 702, Hays, Kansas, Sale Manager.
September 7—Lee M. Smith, Claremore, Okla. Complete Hereford dispersal.
September 8—Circle K Ranch and F. L. Robinson, Beatrice, Nebr.
September 8—Albert Morgan, Alta Vista, Kan.
September 23—Salina Hereford Sale, Gene Sundgren, Sale Manager, Salina.
September 26—Frank J. George & Sons, Lebo, Kan.
September 28—4E Ranch, Topeka, Kan.
October 1—Broken Winecup Ranch, Marion, Kan.
October 5—Beeks & Cleland, Baldwin, Kan.
October 7—Brown Bros. & Streeter Funk, Fall River, Kan.
October 10—BK Ranch, Burr Oak.
October 13—NCK Hereford Association, Belleville, Kan. Geo. C. Wreath, Sale Manager, Belleville, Kan.
October 16—Deiford Ranch, El Dorado.
October 17—CK Ranch, Brookville.
October 21—Salina Hereford Sale, Gene Sundgren, Sale Manager, Salina.
October 24—Haven Hereford Association, Haven, Kan.
October 29—Kansas Flint Hills Association, Cottonwood Falls, Kan.
November 2—Lincoln County Hereford Breeders, Wellington.
November 4—Lincoln County Hereford Association, Sylvan Grove, Kan.
November 8—Cowley County Hereford Breeders' Association, Arkansas City, Kan.
November 9-10—Sunflower Futurity, Hutchinson.
November 11—W. H. Tonn & Son, Haven, Kan.
November 18—Bellyacres Ranch, Paxico.
November 23—Solomon Valley Hereford Association Sale, Osborne, Kan.
December 4—South Central Hereford Association, Newton, Kan.
December 16—Salina Hereford Sale, Gene Sundgren, Sale Manager, Salina.
- Polled Hereford Cattle**
September 4—Mar-Don Farm Reg. Polled Hereford Complete Dispersion Sale, Don S. Myer, Columbia, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.
September 14—Vic Roth Polled Hereford Dispersion, Hays.
September 17—Joint herd sale at Fairbury, Nebraska. Ed Valek & Son, Donald R. Goodger, and E. G. Nesmith & Son.
September 25—Ridge Road Cabin Registered Polled Hereford Complete Dispersion Sale. (Ray McNally & Paul Gildwell), Milan, Mo. Don J. Bowman, Sale Manager, Hamilton, Mo.
September 28—4E Ranch, Topeka, Kan.
October 3—Midwest Polled Hereford Association, Deshler, Nebr.
October 12—Herry Hedrick & Sons Registered Polled Hereford Production Sale, Anutt, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.
October 26—Walbert Ravenstein, Adams, Kan.
October 31—Leo Ebel & Son, Wamego, Kan. and W. R. Zimmerman & Son, Alta Vista, Kan. Sale at Alma, Kan.
November 2—Frank Matheson, Natoma, Kan., and Jake Reich & Son, Paradise, Kan. Sale at Natoma.
November 7—O'Bryan Ranch, Registered Calf Sale, Hiattville.
November 17—O'Bryan Ranch Polled Herefords, Hiattville.
November 20—Central Kansas Polled Hereford Association, Herington, Kan. O. J. Shields, Sales Manager, Lost Springs, Kan.
November 21—Jesse Riffel & Sons, Enterprise.
November 30—Kansas Polled Hereford Association, Vic Roth, Sale Manager, Hays.
- Holstein Cattle**
September 2—Rogers Ranch Dispersal—A. F. Leonhard, Sedan.
September 28—Nebraska Holstein Breeders Association, Seward, Nebr. T. Hobart McVey, Sales Manager, Nickerson, Kan.
October 21—Kansas Holstein Breeders Association, Herington, Kan. Roy Chamberlain, Chairman sales committee, Olpe, Kan.
October 23—Missouri State Breeders' Association, Lee's Summit, Mo. T. A. Burgeson, Sales Manager, Grandview, Mo.
October 26—North Central Kansas Holstein Breeders Association, Washington.
November 4—Central Kansas Holstein Breeders, Hutchinson, Kan. T. Hobart McVey, Sales Manager, Nickerson, Kan.
- Brown Swiss Cattle**
August 24—Rocky Mountain Brown Swiss Sale, Greeley, Colo.
- Ayrshire Cattle**
August 24—Turk-Ayr Farm Registered Ayrshire Sale, Wellington, Kan. Clarence D. Beat, owner.
- Guernsey Cattle**
October 23—Kansas Guernsey Breeders 11 Annual Sale, Hutchinson, Kan. C. J. Graber, Secretary, Route 1, Newton, Kan.
- Jersey Cattle**
October 12—Byler and Weir Registered Jersey Sale, Hutchinson, Kan. Sale Manager, John Weir, Geuda Springs, Kan.
- Red Poll Cattle**
November 11 & 12—Annual meeting and National Sale, Topeka, Kan. F. A. Sloan, Secretary, 3275 Holdrege St., Lincoln, Nebr.
- Shorthorn Cattle**
August 5—R. H. Lawson, Maple Hill, registered Shorthorn sale.
September 26—Tomson Brothers, Registered and Commercial Sale, Wakarusa, Kan.
October 9—Mid-Kansas Show and Sale, Salina, Kan.
October 14—Feeder Calf Sale, Salina.
October 19—Shorthorn and Polled Shorthorn Sale, Cambridge, Nebr. Thos. Andrews, Sale Manager, Cambridge, Nebr.
November 13—Kansas Polled Shorthorn Sale, Hutchinson.
November 14—Kansas Shorthorn Sale, Hutchinson.
- Milking Shorthorn Cattle**
September 4—Gordon-Janssen Dispersion, Bush-ton, C. O. Heidebrecht, Sale Manager, Inman.
October 6—Howard R. Lucas, Macksville, Kan. Sale at fair grounds, Hutchinson, Kan. C. O. Heidebrecht, Sales Manager, Inman, Kan.
October 30—Kansas Breeders' Sale, Hutchinson, C. O. Heidebrecht, Secretary.
November 12—McPherson County Breeders' Sale, Hutchinson, C. O. Heidebrecht, Secretary, Inman.
- Sheep**
August 7—Nebraska Registered Sheep Breeders, Lincoln, Nebr. M. A. Alexander, Secretary, Lincoln, Nebr.
- Hampshire Sheep**
August 8—Northwest Missouri Breeders Association, South St. Joseph, Mo. F. B. Houghton, secretary, Maryville, Mo.
- Poland China Hogs**
September 8—Albert Morgan, Alta Vista, Kan.
September 24—Glenn F. Wiswell & Son, Spring-hill, Kan.
- Yorkshire Hogs**
August 4—Kansas State Yorkshire Breeders Association, Abilene, Kan. (night sale)
- Duroc Hogs**
October 15—Willis Huston, Americus, Kan.

**ROGERS RANCH
HOLSTEIN DISPERSAL**

70 Head of Females. (66 Grades, 4 Registered) 2 Herd Bulls



Sale held under cover at ranch 1 mile north of **SEDAN, KANSAS** on Highway 99 and 4 miles northwest on all-weather road.

WEDNESDAY, SEPTEMBER 2nd - 12:30 P. M.

- 35 COWS—13 head under 4 years of age. Records to 509 lbs. B. F. and 16,278 lbs. M. First calf heifers producing up to 50 lbs. milk daily. Other cows producing up to 65 lbs. milk daily.
3 HEAVY SPRINGER HEIFERS.
10 SHORT 2-YEAR-OLD HEIFERS—Selling open—right to breed for 1954 fall production.
22 HEIFERS—Baby calves to 14 months.

If You Wish Cows in Production or to Freshen Soon We Have Them. 16 head to be fresh from September 1 to December 31 — 12 head were fresh from June 1 to September 1.

A GOOD PRODUCING HERD—This herd has been on test in the Bluestem DHIA for the past 2 years. Last year 33 cows averaged 369 lbs. B. F. and 10,233 lbs. milk.

ALL FEMALES BRED TO THESE Sires THAT SELL

Reflector Flebe, calved January 1, 1948, a grandson of Montvic Bag Apple Chleifton. The dam of Segis Reflector Flebe gave 563 lbs. B. F. and 15,989 lbs. milk in 278 days as a 3-year-old, 2 X milking. Most of the young females sired by him. Niehart Alcartra Burke, calved February 10, 1950. His sire is a son of Meierkord Triune Billy Inka.

This is a Good Working Herd Under Ordinary Kansas Dairy Farm Conditions

HEALTH

All cattle 5 years and under are officially caulked vaccinated.
All cattle 2 years old and over are Bang's tested within 30 days of sale.
All cattle 1b. tested within 30 days of sale.
Three cows are officially adult vaccinated.

For sale catalog A. F. LEONHARD, Rt. 2, Sedan, Kansas

TERMS CASH — LUNCH ON GROUND NOT RESPONSIBLE FOR ACCIDENTS

H. L. CAMPBELL — Owners — A. F. LEONHARD

Auctioneer: Bert Powell, Topeka, Kan. E. A. Dawdy, Salina, Kan., in box Clerk—First National Bank, Coffeyville, Kan. Mike Wilson with Kansas Farmer

REGISTERED AYRSHIRE SALE

Wellington, Kansas

August 24th—12:00 Noon

The sale will be held in the 4-H Building, Wellington, Kansas

Sale cattle consists of

20 young cows. 4 bulls. 9 yearlings and some heifer calves
All cattle dehorned. Catalogs sent on request.

TURK-AYR DAIRY FARM,

Route 2, Wellington, Kansas Clarence D. Beat, owner

AUCTS: CHAS. COLE & WALTER HAND

**ROCKY MOUNTAIN
BROWN SWISS SALE**

Mon., August 24, 1953

At Greeley, Colo.

35—Selected

Brown Swiss Heifers

from 6 to 27 months old.

5—Registered

Brown Swiss Bulls

from 500 lb. or better Dams.

For catalog write

F. L. SUSSEX

Rt. 2, Ft. Morgan Colo.

Norm Maguasson Pedig.—C. E. Reed, Auct.

WISCONSIN DAIRY CATTLE

Choice Holstein, Guernsey and Brown Swiss Calves, Yearlings and Springing Heifers. Delivered to your farm C.O.D.
Dennis R. Grosse, York, Nebr., Bx. 48, Ph. 1419

**REGISTERED HOLSTEINS
HIGHER VIEW DAIRY FARM**

125 head Clyde Hills & Crescent Beauty Admirals; serviceable-age bulls for sale or lease; you can raise and use a baby bull and receive 1/2 interest in him; an occasional 4-H and FFA heifer for sale; sometimes have good young cows for sale; have cows up to 600 lbs. fat, 1/2 time milking; visit our Hite-Way Milking Parlor.
J. D. & E. E. FELLERS, Hays, Kansas
4 miles north of Hays, Highway 183

INCREASE YOUR BASE

120 Registered Ayrshires

best bloodlines. Imported and domestic. All ages. Drafted, must sell.

WALLACE JOHNSON

TOWANDA, KANSAS

Excellent Guernsey Bulls

Serviceable age at Farmer Prices.

P. EVERETT SPERRY

Phone 1563-J Lawrence, Kansas



Straight Creek Farms
Hereford Dispersion & Farm Sale
WHITING, KANSAS
September 5, 1953

Sale at the farm 3 1/2 miles east of Whiting on Highway 9
 Selling farm equipment at 10:00 A. M.
 Purebred Cattle Sale at 1:00 P. M.

155 HEAD. 15 bulls, 100 females and 40 calves

Herd sire CK Crusty 79, son of CK Crusier D 34th, 3 year old bred by CK Ranch. Herd sire Fidelity Tone 9, bred by Wayne Billings, of Jetmore, Kansas. Herd sire 34 Super Larry D 4th, son of Super Larry D 34th. Herd sire Onward Lad 3rd, son of Onward Lad 5th, bred by Wayne Billings. Herd sire Regal Lad, a son of Prince Dundy 5th, 3 year old, 11 coming yearling bulls sired by CK Crusty 79th, J O Duke Pride 14th, 30 cows with calves by side sired by CK Crusty 79th and CK Royal Duke 3rd, 41 open and bred heifers sired by Tone Lad M 32d, J O Duke Pride 14th and CK Royal Duke 3rd.

SIRE	DAUGHTERS	DAUGHTERS	DAUGHTERS
Tone Lad M. 324th 3829-402	Miss Paladin Dum. 3th Patterson Land Co.	Paladin Dum. L. R. E. Lucas	Paladin Dumino Catharine Dumino Wynn Hartland Etta Dumino
FIDELITY'S TONE 9 7104356 (Selling)	Painter's Dumino A. 204th	Painter's Dumino A. 204th	Painter's Dumino A. 204th
DAM	Domino Maid 1st	Domino Maid 1st	Domino Maid 1st
P. H. R. Jay Lady 16th 3194-772	Real Dumino R. 17th	Real Dumino R. 17th	Real Dumino R. 17th
	Princess Dumino C. 343th	Princess Dumino C. 343th	Princess Dumino C. 343th

This bull is a half brother to the 2 bulls that Foster Farms, Rexford, Kan., have recently added to their herd.

29 top Hereford Grade Cows, all 3 years old with third calves by side, calves sired by our herd bulls and rebred. These cows are very outstanding. 9 Holstein milk cows, 4 to 7 years of age. 3 yearling Holstein heifers.

3 full sets of farm machinery. 1950 Model M International tractor. 1951 C IHC tractor and 1939 F 30 IHC. 1952 2-ton Chevrolet truck LWE. Plows, cultivators, etc., also squeeze chubs, cattle guards and full line of purchased equipment. 4,200 feet of pipe in assorted sizes from 1/2 inch to 2 inch.

For information and sale catalogs write to
VIC ROTH, Sale Manager, Box 702, Hays, Kansas

Auctioneers: Freddie Chamber and Mike Wilson. Mike Wilson for Kansas Farmer.

MORGAN PRODUCTION SALE

ALTA VISTA, KAN.
SEPTEMBER 8, 1953
1:00 P. M.

Sale will be held at the farm 4 miles north-west of Alta Vista or 25 miles south of Manhattan, Kansas on Highway 13. Lunch will be served on grounds.

Registered Hereford Cattle—Registered Poland China Hogs

The cattle offering includes 10 registered heifer calves, this includes our entire registered heifer calf crop, 10 commercial heifers, 10 top steer calves. The offering features the get of King Helmsman 30 by WHR Helmsman 8, he by the Register of Merit sire Proud Princeps 9. Calves from our herd have done well for 4-H Club members; Judy Olsen's steer at last year's Wichita Fat Stock Show was a purple winner that sold at \$75 hundred-weight. The hog offering includes 15 spring boars—15 spring gilts. The offering will feature the get of Chiefton (Anderson strain) bred by Clark Dyer of Missouri. Our hogs have placed high at several of the fairs including the Wichita Barrow Show. This is one of the best offerings we have ever had for sale.

This will be an opportunity for 4-H club members to get next year's project. Cattle and hogs have done well for members that have fed them.

For sale information contact
ALBERT MORGAN, Alta Vista, Kansas (Owner)
 Mike Wilson, auctioneer

HOGS

REG. SPOTTED POLAND CHEVAS
 Spring hogs and gilts that top the market in 5 months. Top breeding, new bloodlines.
 J. V. CUNDEFF & SONS
 (4 1/2 MI. N.) TALMAGE, KANSAS

• AUCTIONEERS •

BERT POWELL

SECTIONEER
 LIVESTOCK AND REAL ESTATE
 1029 Fifth Avenue
 Topeka, Kan.

HAROLD TONN

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

Little Ads Bring Big Results

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

September 5
Will Be Our Next Issue

Ads for the Classified and Livestock Section must be mailed not later than Tuesday, August 25, so they will be in our hands by

Wednesday, August 26
 If your ad is late, send it in Special Delivery to 8th & Jackson Street
 Kansas Farmer, Topeka, Kan.

Produce too Much

Dear Editor: Reading article in your paper of May 2 by Cliff Stratton, telling how the two-price system for farm products would work. . . This two-way system is too complicated. In my belief there is only one solution for the farmer to follow and that is to keep supply and demand in balance. . . We have built up excessive surpluses so great, law (of supply and demand) cannot function. The only thing we farmers must do is cut every farm commodity by 15 per cent. It will wipe out all excessive surpluses which are destroying our markets. Anyone with common sense should look at hoga. That should be an incentive not to overproduce. . . There are instances where the cattle feeder has lost \$50 to \$100 per head on his cattle, and it doesn't look to me like there is any prosperous future for some time for the cattle business.

We have surpluses in everything produced on the farm—corn, wheat, oats, potatoes, poultry, milk, cheese, butter and cotton.

You don't see the industrialist building up excessive surpluses. Whenever his supply overtakes demand he cuts back until demand catches up.—A. M. Dick, McLouth, Kan.

Make Feed Loans

Emergency loans to farmers and cattlemen to buy feed and pay operating expenses have been outlined by the USDA, as authorized by U. S. Congress in new disaster credit legislation.

Credit will be extended only to established producers and feeders of cattle, sheep and goats who have a reasonable chance of working out of their drouth difficulties, but can't obtain funds they need from private or co-operative credit sources. See your local FHA office for details.

Kansans Welcome German IFYE

Kansas farm families are welcoming an IFYE delegate from Germany, Joseph Stallmeister, who is spending 7 weeks here. He is from a 105-acre farm on which oats, barley, clover, fodder beets and sugar beets are main crops. Dairying is major livestock enterprise, with herd of 16 cows. He has college training in agriculture, is a leader in youth clubs in Germany.

TREND OF THE MARKETS

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

	Week Ago	Month Ago	Year Ago
Fed Steers	\$26.00	\$30.00	\$33.75
Hogs	24.00	27.25	23.00
Lambs	23.25	26.25	29.50
Hens, 4 to 5 lbs.	.24	.24	.20
Eggs, Standards	.47	.45 1/2	.43
Butterfat, No. 1	.54	.54	.67
Wheat, No. 2, Hard	2.28 1/4	2.32	2.38
Corn, No. 2, Yellow	1.63 1/2	1.62 1/2	1.87
Oats, No. 2, White	.88 1/4	.86	.96
Barley, No. 2	1.23	1.26	1.45
Alfalfa, No. 1	32.00	—	36.00
Prairie, No. 1	25.50	—	30.00

Dual-Purpose CATTLE

Gordon L. Jansson
Milking Shorthorn Dispersal
Friday, September 4, 1953
 1:00 P. M.
 Sale at the farm 3 1/2 W on 4, 1 1/2 N of
Bushton, Kansas

16 Cows—11 Heifers—3 Bulls

Nine cows have qualified for the R.M. Sale includes some very good heifers for 4-11 prospects. The outstanding herd sire, Kenton President, is a special attraction. Due to the labor situation this herd has to be dispersed. Make plans to attend.

For catalog write
C. O. HEIDEBRECHT, Sales Mgr.,
 INMAN, KANSAS

SPECIAL

We have decided to offer
10 Heifers and 5 Bull calves
 at auction the day of the
Kansas Milking Shorthorn Picnic at our farm,
Saturday, August 22
 Come and make your choice.
RETNUH FARMS
 JOE HUNTER, Owner, Geneseo, Kansas

For Sale: Two Polled Milking
SHORTHORN BULLS
 Roans, 9 and 11 months of age.
Max Craig, Osage City, Kansas

Livestock Advertising Rates
 Effective February 1, 1951

1/4 Column inch (5 lines) . . . \$3.50 per issue
 1 Column inch \$9.80 per issue

The ad coating \$3.50 is the smallest accepted. The smallest public sale ad accepted is 1 column by 2 inches, coating \$19.60.

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
 8th & Jackson
 Kansas Farmer - - - Topeka, Kansas

Beef CATTLE

FREE CATTLE BOOK

50 pages of profitable suggestions and interesting pictures on selecting, breeding, fitting and showing Angus . . . absolutely free to you. Ask for "Cattle Raising at its Best." Put your name and address on a card and send now to

AMERICAN ANGUS ASSOCIATION
 CHICAGO 9, ILLINOIS

Sunflower Farms ANGUS

Herd Sires:
 Ever Prince Revolution 2nd
 Homeplace Eileenmere 304th.
 Ever Prince of Sunflower.

Cattle of both sexes for sale at all times. We have bred and sold some of the top winners and selling cattle at the larger shows and sales throughout the country. When in need of good breeding stock pay us a visit.

Sunflower Farms, Everest, Kansas
 Jim, Keith and Bob Swartz, Owners

COMPLETE DISPERSION OF THE MARYCREST FARMS HERD OF ABERDEEN-ANGUS CATTLE

This sale is brought on by the illness of the owner.
 Sale starts at 12 Noon on

Monday, August 31
 at farm just west of
Maloy, Iowa

100 HEAD OF RICHLY BRED ANGUS SELL:
HOMEPLACE EILEENMERE 26TH SELLS

He is one of the "top" sons of Eileenmere 487th. His get have averaged \$3,000 at public auction over a 4-year period. 12 of his choice sons and 15 daughters sell as separate lots, 40 cows carry his service and there will be 30 calves at side of dam by him.

Daughters of Great Bulls Sell—4 daughters of Eileenmere 487th, 6 of them tops of six different Penney & James sales; 15 daughters of the 26th; 1 by Eileenmere 85th; 1 by Eileenmere 999th; 1 by Eileenmere 566th; 1 by Prince Eric of Sunbeam and other great sires are represented. Prominent Families Represented include 2 Blackcap Bessies; 4 Maid of Bumpers; 1 Chimera; 1 Jilt; 1 Georgina; 5 Juanas and representative of other preferred families.

For sale catalog write to J. B. McCORKLE, Sales Manager, Smithville, Mo.
MARYCREST FARMS, Maloy, Ia.; JOHN D. & MARY C. WARIN, Owners
 Auctioneers—Johnston, Sims and Hazel

PRODUCTION SALE OF JOHNSON HEREFORDS

SALINA, KANSAS

Sept. 9, 1953



The sale will start at 12:00 noon at the Beverly Sales Pavilion at the east edge of Salina on US Highway 40.

SELLING 80 LOTS

Including 26 bulls ranging in ages from junior calves to junior yearlings, three of them were bred by Wyoming Hereford Ranch.

The reserve champion at the 1952 Sunflower Futurity, J Proud Princess 10 by S Bold Aggressor 2. Einar Johnson is shown at the halter.

THE BULL OFFERING IS Sired BY:

S Bold Aggressor 2, WHR Designer 25, WHR Helmsman 51, WHR Ideal Duke 1, WHR Idealist 5. 54 females, 18 cows, ten of which have calves at side. Cows are sired by: WHR Flashy Cavaller, W Mt. Proud Prince, Baca Elation 39, WHR True Onward 10, WHR Princeps 21. 7 bred heifers by WHR Proud Aggressor and S Bold Aggressor 2. 29 open heifers by WHR Idealist 5, WHR Designer 25 and S Bold Aggressor 2. WHR Designer 25 and S Bold Aggressor 2, two of our herd sires, have the influence of a great sire, WHR Proud Princeps 9, their grandsire. He was a champion himself, a Register of Merit Sire, and the sire of 5 Register of Merit sons.

For catalog and reservation please write
ELMER JOHNSON, Smolan, Kansas

Gene Watson auctioneer Mike Wilson for Kansas Farmer

Production Sale

of the
T. L. WELSH
HEREFORD RANCH
Abilene, Kansas
August 26, 1953

Sale at the ranch located just east of Abilene on US Highway 40.



85 OF OUR BEST ARE YOURS

There is "No-Risk" when you buy Welsh Herefords..

20 BULLS SELL. Senior calves to senior yearlings, by EG Proud Mixer 156th, WHR Royal Duke 65th and W. Dandy Triumph. 20 COWS—15 with calves at side, mostly bull calves by our WHR Proud Mixer 21st bulls, our Bell's Resolute HG Mixer Gwen and Larry Domino 37th herd sires. 25 BRED HEIFERS — mostly by WHR Royal Duke 65th and W. Dandy Triumph, they are bred to TR Royal Zato 20th, W. Crusty 8th, EG Proud Mixer 156th, EG Proud Mixer 49th, and W & LF Super Pride. 20 OPEN HEIFERS—they are daughters of EG Proud Mixer 156th, WHR Royal Duke 65th and W. Dandy Triumph. The dams of the sale cattle are mostly WHR and CK Ranch bloodlines.

For catalogs and hotel reservations contact **GEORGE W. THOMPSON, Mgr.**

T. L. WELSH HEREFORD RANCH, Abilene, Kansas

Gene Watson and Jewett Fulkerson, auctioneers

MISSOURI'S LARGEST

HEREFORD SALE

A COMPLETE DISPERSION

AT THE STEEPLE X RANCH

Belton, Missouri

26 miles south of Kansas City, Mo., on Hwy 71

552 LOTS — 800 HEAD SELL

August 31 — September 1

The offering will include 12 herd sires, 40 two-year-old and yearling bulls, good herd-stre prospects, and 500 females. The female offering features 80 yearling heifers, 50 two-year-old bred heifers and 380 cows, 250 of which have calves at side and others sell bred to the herd sires.

The herd sires used thru the years strengthened the herd, for these sires, thru Prince Domino, Larry Domino 50th and Double Dandy Domino, were likewise strong in Anxiety 4th blood on which this herd was founded. And today, our herd sires represent the very best breeding from a succession of great herds.

In the sale catalog, you can read the names of these famous Hereford families. We believe you'll agree that this breeding makes for good, strong, sound Hereford cattle—the practical, money-making kind.

For sale catalog write at once to

STEEPLE X RANCH

VIC ROTH POLLED HEREFORD DISPERSION

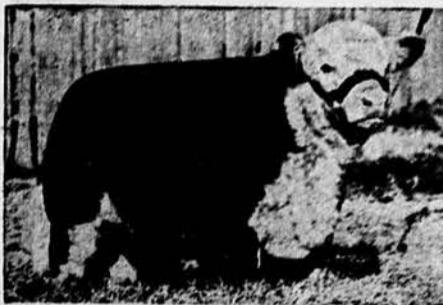
September 14, 1953

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

Selling at Ranch

8 miles west on U. S. 40 and 2 miles north of

HAYS, KANSAS



R.P.D. JUPITER, a son of Real Plato 8th. One of the herd bulls that sell.

SELLING 106 LOTS

126 HEAD — 21 Bulls — 85 Females

SELLING 3 HERD BULLS—4E Ambassador, son of Captain Plato 5th. R.P.D. Jupiter, son of Real Plato 8th. Plato Domino Mixer, grandson of Real Plato Domino 26th. 3 TWO-YEAR-OLD BULLS sired by M. C. Royal Return and Captain Plato 8th. 15 YEARLING BULLS sired by Captain Domino 7th, Real Plato Domino Jr., and Captain Plato 8th. 43 BROOD COWS with calves by side. Cows of Victor Domino, WHR Royal Tredway 9th, Aster Domino and Real Plato Domino bloodlines. Calves sired by Real Plato Domino 63d and Real Plato 14th and Mesa Domino Real. Cows rebred to 4E Ambassador and R.P.D. Jupiter. 27 BRED HEIFERS of Real Plato Domino and Super Tredway bloodlines and bred to Plato Domino Mixer. 15 OPEN HEIFERS sired by Real Plato Domino Jr. and Captain Domino 7th.

For catalogs write

VIC ROTH, Owner, Box 702, Hays, Kansas

Freddie Chandler, Auctioneer

Mike Wilson for Kansas Farmer

The Livestock & Classified Departments

In this issue of the Kansas Farmer merit your attention. You will find a world of useful information as well as bargains you can't afford to pass up!



**HEREFORD
DISPERSION SALE**
Quinter, Kansas
August 24, 1953

Sale will be held at the Quinter Sale Barn

110 HEAD SELL

Selling 60 females and 1 bull HG CRUSTY 327th. 50 cows with calves at side by Bell's Resolute 14th and exposed to HG Crusty 327th. 10 cows exposed to HG Crusty 327th.

All of the cows are two-, three- and eight-year-olds, most of them are three-year-olds. Bell's Resolute 14th is a son of Bianchi's Resolute 33th, used by us and owned by Tom Werth, Park, Kansas.

Write for catalog to

DELMAR ROBERTS, Owner, Quinter, Kansas

Gene Watson auctioneer

Before Purchasing Hybrid Seed

**REMEMBER
THIS
ABOUT**

PIONEER

**More Farmers Are Growing MORE PIONEER
... in the Garst & Thomas Area ...
Than Ever Before In History**

Yes, in fact, from one end of the cornbelt to the other — More Farmers Are Growing More PIONEER This Year—than ever before in history.

Like farmers clear across the country — Kansas Farmers have learned that they can count on year-in and year-out **DEPENDABILITY** of PIONEER. They have learned that PIONEER is **Definitely Superior** in Performance and Yield—that it is the **MOST PROFITABLE HYBRID** they can plant.

Next year would be the ideal time for you to join the ever-widening swing to PIONEER. Next year would be the ideal time to start enjoying the many extra advantages that PIONEER can give you.

See Your PIONEER Salesman Today!

Let him tell you the complete PIONEER story. Let him help you select the PIONEER Variety—or Varieties—best adapted to your farm.

GARST and THOMAS HYBRID CORN CO.
Coon Rapids, Iowa

For the Bushel-Plant the Hybrid-

