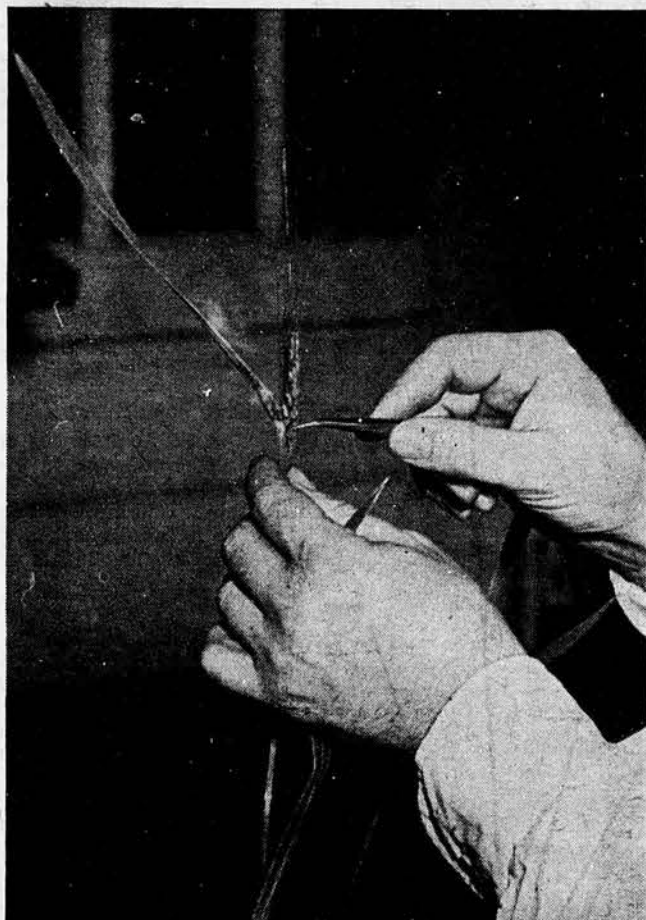


Kansas Farmer



PLANT BREEDERS are constantly striving to produce new wheat varieties with more resistance to disease and insects.



SOME WHEAT VARIETIES that yield well still are low in milling or baking qualities. Baking tests are made at Manhattan to see which varieties are best for processors.

Next Time Which Wheat Will You Plant?

Editor's Note: With so many varieties from which to choose—some new and little known—Kansas Farmer editors thought you would appreciate this summary of good and bad points of all varieties now being discussed in Kansas.

STRANGE new names are being heard these days when you get into discussion about wheat varieties in Kansas. For several years, of course, Wichita and Kiowa varieties have been gaining favor. Now we are beginning to hear such names as Ponca, BlueJacket, Iohardi, RedJacket, KanQueen, Stafford and KanKing.

Most important of these, at present, is the new Ponca winter wheat released jointly by Kansas State College and Oklahoma A & M for Eastern Kansas and Oklahoma.

Ponca has high resistance to both Hessian fly and leaf rust, 2 main problems of wheat growing in Eastern Kansas. Under normal conditions Ponca has yielded about the same as Pawnee, but where leaf rust and Hessian fly are present in damaging amounts, Ponca can be expected [Continued on Page 40]

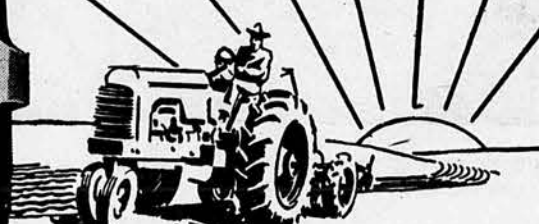


THIS COMPARATIVE TEST of Hessian fly damage on 3 Kansas varieties was run at Kansas State Experiment Station, Manhattan. Each small stake is by an infested plant. Row 551 (Pawnee) was 65 per cent infested; row 552 (Tenmarq) 95 per cent infested; row 553 (Ponca) only 11 per cent infested.

- Flood Control a Big Job.....Page 6
- A Daughter of the Land.....Page 8
- When Your Club Entertains.....Page 30

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NEWS



From Your State Capitol

Garbage Bill

On March 11, Governor Edward F. Arn signed into law House Bill 34, which requires cities to cook garbage before it is fed to hogs. This requirement does not apply to persons who feed their own animals only garbage obtained from his own household. The bill was aimed at halting spread of vesicular exanthema, dreaded hog disease.

Aid Vet Hospital Units

Senate Bill 103 was signed into law on February 28. It provides an additional \$75,000 for construction of veterinary hospital units at Kansas State College.

Tax Study Bill

House Bill 120, calling for creation of a citizens' commission to study improvements in tax assessments, was signed into law on March 4. The group of 22 members is to report findings to the governor and legislature within 2 years.

Invite Kansan

Frank Stickler, Burlington, was one of 34 men over the Nation invited to an industry-wide soybean and flax conference held in Washington, March 9. The group represented all segments of the 2 industries, from growers to processors and traders. Secretary of Agriculture Ezra Benson invited them to consider present situation with regard to these commodities and to advise about possible measures to stabilize prices and production.

Boost Wheat Yields

Value of nitrogen fertilizer to boost wheat yields in Western Kansas is shown in KSC tests. J. A. Hobbs, agronomist, recommends applying nitrogen "if moisture reserves in the soil early in March indicate the likelihood of the crop producing a high yield." On eroded soils, where response to fertilizer has been more pronounced, it may be profitable to apply nitrogen even in years when moisture reserves are not good.

Name New Instructor

Named instructor in Kansas State College agronomy department and superintendent of irrigation experiment field near Concordia is Warren W. Rasmussen. He will teach a new course, Management of Irrigated Soils.

KANSAS FARMER

Continuing Mail & Breeze

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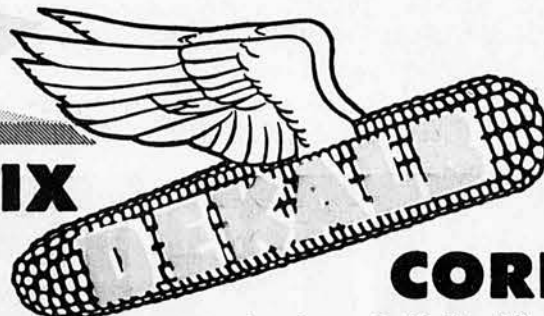


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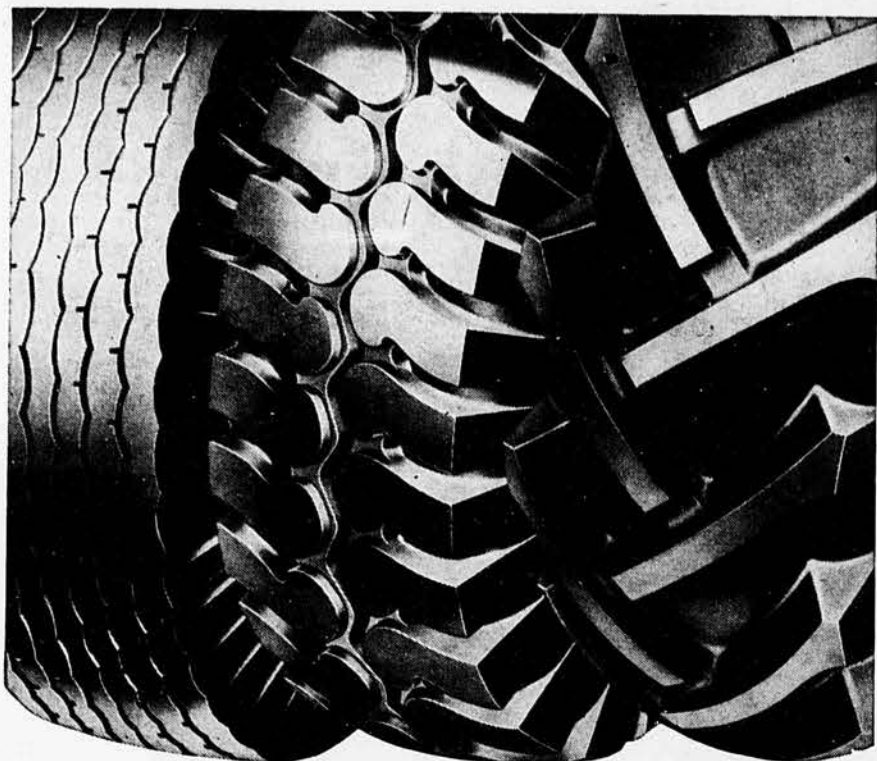
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Never Had Complete Milo Failure; It Has Outdone Wheat Every Year



SONS GREGORY AND EDWARD are shown with their dad, Vincent Hayden, Plains, in the 84-foot barracks building on the 1,000-acre farm, recently converted from hog to sheep production. Registered Collies, used to working with cattle and hogs, are now being trained to work sheep. Can you find third dog in picture?

TWELVE YEARS growing milo and Vincent Hayden, Plains, hasn't had a complete crop failure yet. His milo crop has outdone wheat every year in dollar return.

Mr. Hayden has no secret formula, but his careful job of planting may be one answer to his success.

He plows just ahead of planting, regardless of amount of trash on the land, then harrows and cultivates. His seed goes in between May 25 and June 25, "by cloud," or when it looks like rain. He prefers surface drilling with a Dempster in 28-inch rows. He also does some planting with a lister.

For his location, Mr. Hayden says he gets best yields planting $3\frac{1}{4}$ pounds per acre. He gets best yields and faster maturity with Martin milo and it is easier to harvest too, with plenty of space between the head and highest leaves, likes Westland for feeding.

With maize in one field 8 straight years and heaviest yields in more recent crop years, Mr. Hayden has found no value in summer-fallowing for maize. He starts the season cultivating with a unitiller with sweeps on it, and after that he says the sorghum plants coming up at the same time as weeds with an equal start later go on to grow above the weeds and shade them out.

Nearest he ever came to losing a crop was in a 1947 hailstorm. Hail damage in a sorghum crop is more serious than for cereal grains, he pointed out, because damage to leaves so directly limits development of heads.

Depending on subsoil moisture, Mr. Hayden will probably have 340 acres in milo this year. He told about his cousin's experience in Colorado, harvesting a 27-bushel crop one season when there wasn't enough rain to wash the furrows down. "They can do it because they don't have our hot nights," Mr. Hayden said. "If our milo heads out here in August, it gets burned up."

Haydens used to farrow 20 to 30 sows fall and spring, running the hogs on Sudan grass in summer, wintering on wheat pasture or supplement, grain-feeding on milo. These were all purebred Hampshires. Last year, Mr. Hayden went into the sheep business. His plan—35 ewes, starting with a few purebred Suffolks. One of the first arrivals was a buck lamb.

Easily converted from hogs to sheep was an 84-foot barracks building moved to the farm. Originally a CCC building and later a church dining hall, the concrete-floored and electrically-wired building has 9 pens on each side of a central alley.

GRANDMA By Charles Kuhn



"Farmall Farming gives us time to raise extra livestock, more cash crops"

say the Kaylors of Van Buren, Arkansas



"Three of us—I and my sons, Walter and Wayne farm 600 acres!" says Earnest Kaylor. "Three Farmall Ms and a Super C give us fast field speeds, quick turning

and effortless hydraulic control that make every minute count. We use the days of time we save each year, to feed more livestock, and to go after bigger yields by more intensive farming."



"We cultivate 30 acres of beans a day with our Super C," says Wayne Kaylor. "With Farmall Touch-Control to raise and lower cultivator gangs, we cover more ground because we hardly slow up at row ends. The forward-mounted

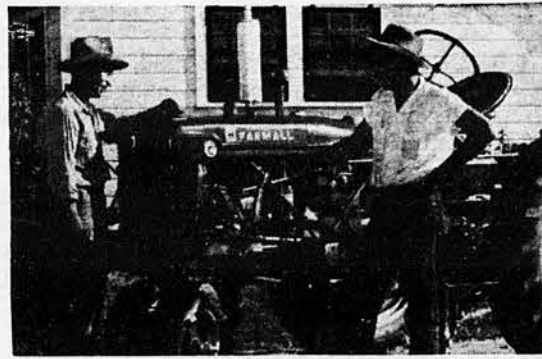
McCormick cultivator makes it easy to work close to tiny seedlings without covering them up or cutting them off. Yet, the Super C has ample clearance to lay by high beans without breaking stalks."



"Quick-change implements save field time for us," says Wayne Kaylor. "One-bolt gang connections enable us to quickly put on or take off cultivator shovels. We can switch from cultivating to mowing in half an hour."



"We can make up to 1,000 bales a day with our Farmall Super C and a power-take-off driven McCormick baler," says Walter. "We like Farmall dependability. Our Super C has worked over 600 hours without a penny for repairs."



"Our IH dealer gives 'round-the-clock service," says Walter, shown with Roy Carson of the Crouch Equipment Co. "This extra service can save us hundreds of dollars when we're harvesting perishable truck crops."

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IT IS DIFFICULT to see how this much water could be held within channel under the Flow-way plan of flood control. Even engineers disagree on what can and should be done about floods.

Flood Control Job is a Big One

By DICK MANN

Editor's Note: Here is the third of a series of stories in Kansas Farmer on the many complex problems of water management. This story deals with the confusion now existing over what will or won't be done on flood control in the Kansas (Kaw) river basin.

EVERYONE in Kansas is mad, confused or both, these days over the many conflicting statements, charges, countercharges and flood-control plans in regard to the Kansas river basin.

Is it possible to separate facts from propaganda? Did Governor Arn waste \$45,000 of your money hiring an engineering group to restudy the existing flood-control plan for big reservoirs like Tuttle Creek? Will his survey

commission's recommendations for a "flow-way" plan of flood control really work and is this new plan likely to be accepted? These are just a few of the big questions people would like to have answered.

First, let's try to simplify the thing to see what the basic problem is. If your child was seriously ill and your doctor told you the only way to save his life was to amputate both legs, what would you do? Would you say: "Sure, Doc, go ahead." Or would you say: "If it's necessary, of course, we'll do it. But first let's call in another doctor or two and see whether some other remedy can be found."

We all know floods have made the Missouri basin as a whole, and the Kansas basin in particular, a mighty sick customer. The only rem-

edy prescribed (until recently) was the joint program of Army Corps of Engineers and Reclamation Bureau for a series of big reservoirs. To farmers and communities directly in the area where such reservoirs were to be located this plan was like the doctor's decision to amputate the boy's legs. They protested the cure was worse than the disease and they hollered long and loud. They've hollered in other states, too. But Kansas has the first state government to say: "Wait a minute, let's call in some other doctors and hold a consultation on this."

Also, former President Harry Truman appointed a commission to do the same thing for the entire Missouri basin. Both the state and Missouri basin commissions came up with about the same answer: [Continued on Page 44]



ANY FLOOD-CONTROL PLAN should include protection of farm land as well as city property. This view shows how one large field in the Kaw basin was cut to pieces by the force of floodwater.



SILTATION IS PART of any flood and must be controlled along with water if the program is to be successful. Soil conservation and watershed treatment are needed. (Flood pictures by H. V. Lyle, Topeka Daily Capital.)

Kansas Farmer

News and Comment

Uncle Sam Your Boss

YOU THOUGHT you had been working for yourself better than 3 months in 1953, didn't you? Listen to this! In 1953, Americans won't start working for themselves until April 22. Better mark that on your calendar.

All wages, salaries, rents, farm income, interest and dividends received up to that date will be gobbled up by taxes. Levies by federal, state and local governments will total about 90 billion dollars, or 30 per cent of the national income, according to the U. S. Treasury and the Department of Commerce. This fact was dug out by the U. S. Chamber of Commerce. It apparently isn't easy to reduce government spending. But if you and thousands of other voters make it emphatic enough, cuts will be made.

When You Graduate

SOON NOW high school seniors will face one of the most important decisions in life. "Will I get into some business now or go on to college?" It may not be an easy decision.

Fortunately, you don't need to make it blindly. First of all, you have the unselfish guidance of your parents. There isn't anyone in the world more eager than they for your future welfare. Also, you have your teachers, other friends who have attended college, successful farmers and business men and women whom you know. In the course of your interviews you will find some very successful folks who didn't even get to finish high school. There are some very wonderful self-educated people, you know.

Whatever your choice, think the problem thru for yourself. "Too many high school students," reports one research authority, "choose a vocation on impulse or are lured by the glamour of a profession without first considering carefully their own abilities and shortcomings and setting realistic goals. This is as true for those who begin working after graduation as well as for those who plan to attend college." This man is Victor Christopherson, professor of home life at Oklahoma A & M College.

He suggests you make a careful study of different occupations in which you are interested. Activities and duties required of a person in any field and his professional obligations should be thoroughly investigated. Also, you should ask yourself what the disadvantages of the job are. You want to look into opportunities for advancement. Will you like the type of people in the field?

It is hoped many young farm people will stay with the land, either now or after college. No business or job is more important or essential. People must have food first of all. And certainly agriculture demands intelligence second to no other industry. Answering the daily questions of crop and livestock production is as challeng-

ing and inspiring as anyone would meet in any other industry. It is true you will find a lot of perspiration in farming, too. But no other job is free from peculiar demands and problems.

Main point is to thoroughly investigate all opportunities that are of keen interest to you. Then measure your qualifications against what they have to offer.

Family Farm Grew Up

SOMETHING has happened to the family-size farm. We don't mean it has disappeared. It hasn't. Instead it simply has grown up. Take a look at how the Bureau of Agricultural Economics, USDA, compares the situation today with that of 40 years ago.

Altho farms on the average are getting larger, most of them are still family-operated, BAE reports. Our farms may average larger in acreage, but in terms of man-hours needed they remain for the most part family farms. Labor-saving machinery and modern farm "know-how" help make the family farm different from what it was a few years ago.

Forty years ago, for example, it took 35 man-hours to produce an acre of corn yielding 26 bushels; in recent years it took only 17 man-hours per acre, and the yield was 38 bushels. To produce 100 bushels of corn 40 years ago, it took 135 man-hours; in recent years only 45 man-hours were required.

Briefly, the number of farms with 500 or more acres has increased 40 per cent in the last 30 years, and farms in this category now comprise 18 per cent of the Nation's farms. Farms from 100 to 179 acres have decreased substantially—400,000 fewer than in 1920—but they still make up one fifth of the Nation's farms. Number of farms with 180 to 499 acres has remained about the same. The country has a million fewer farms today than 30 years ago. During that period average size of farms increased from 148 acres to 215 acres.

Here is an interesting comment giving one reason farmers have grown up in productive ability right along with increase in size of family-size farms. "Probably no other industry has done so complete a job of 'retooling' in the last 25 years as has the farming industry. In that time, practically every bit of productive equipment has been obsoleted and replaced, not only once but in many cases 2 or 3 times. This retooling is not finished, and probably never will be, for newer and more proficient types of tilling, harvesting and pest-control machinery are constantly being invented." That statement was made by C. E. Sweet, Capper Publications executive, in a speech before the agricultural council of the Chicago Association of Commerce and Industry.

More change in the future? Listen to Dr. Waldo Kliever, research director for Minneapolis-Honeywell Regulator Company: "Agriculture is rapidly progressing into a new automatic age. . . I would predict use of automatic controls to relieve the farm labor problem, and do a better job on the farm at reduced costs, will show as much expansion in the next few years as mechanization of agriculture has in the past."

Great days are ahead for agriculture.

Good Customers

WITH OIL WELLS in Kansas, we are interested in the fact folks in the United States are using more gasoline than at any other time in history. Coinciding with the record number of motor vehicles on the Nation's highways—about 53 million in 1952, some 2 per cent



"Six ages of woman—safety pins, hairpins, fraternity pins, diamond pins, clothespins and rolling pins."

"Once an engineer went mad because he looked for a place to put the cornerstone in a roundhouse."

"Men have only 2 faults—what they say and what they do."

"Dad, I know this spanking is going to hurt you more than it is me, so don't hurt yourself too much!"

"Something deep along the book line—Twenty Miles Under the Sea."

"Officer: 'Can you describe your assailant?'"

"Victim: 'I just did. That's why he hit me.'"

"How can I prove to my daughter her boy friend is worthless?"

"Let her marry him."

higher than the previous year—automotive gasoline consumption in 1952 was more than 40 billion gallons, 7 per cent ahead of 1951.

Here is another interesting point. It took about 200,000 service stations to supply American drivers. Station operators shared an income of nearly 10 billion dollars from the public. These folks are customers of the farmer, because they must eat. Add to them all the folks needed to build motorcars and filling stations. Another example of how important business is to agriculture.

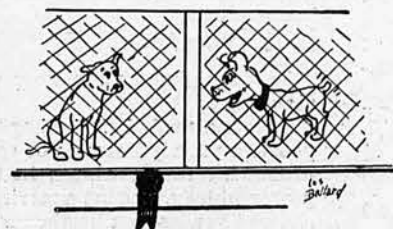
Turning the tables: Total oil energy used in farming in a year is about 750 million horsepower. That is more than is used by all other American industries. So agriculture is equally important to industry.

Recommended Crops

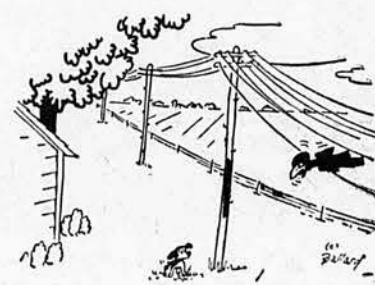
IN THIS ISSUE of *Kansas Farmer* you will find a feature article—page 1—about the many varieties of wheat now available in Kansas. Perhaps you will get from reading it, some suggestions that will save you time, labor and money.

You also might wish to have a handy chart that at a glance will tell you other recommended crop varieties for every section of the state. What alfalfa, barley, sweet clover, oats, sorghums, grasses are recommended for your area? Kansas State Board of Agriculture and Kansas State College have worked up a "Know What You Sow" chart that may be had for the asking. If you are interested in obtaining one, just drop a post card to *Kansas Farmer*, Topeka, and it will be mailed to you promptly.

Teach yourself by studying results of work of state agricultural experts. It pays!



"Hah. That isn't a blue ribbon. It's just an old price tag!"



"Come on up here and say that again."

UNA HIJA DE LA TIERRA . . . A Daughter of the Land

By RUTH McMILLION

LOIS DEGNAN, daughter of an Ashland, Clark county, farmer-stockman, asked that her high school graduation gift be the privilege of studying at Saltillo, Mexico. Lois had private Spanish lessons the summer of her 6th grade, later took 2 years of Spanish in 1 during high school.

Her parents, Mr. and Mrs. Fred Degnan, were dubious. *Que Cosa!* (the idea); but they agreed.

Tuition for the 7-weeks course was \$225 and \$250 spending money. Mr. and Mrs. Degnan took Lois to Saltillo.

As they drove amid the mud-splashed, white-washed homes which formed a wall along the city streets there were misgivings. When they stopped at her resident address with its cracked exterior, even Lois put her hands to her face and cried, *No eso!* (not that). But it was the address which the school had recommended so they entered—and were amazed.

The spacious 10-room house was lovely; the patio *muy bonito* (very beautiful), with garden and fountain.

Her hostesses consisted of 3 maiden ladies with "silver-mine" connections and Lois' stay proved delightful.

Lois is an outstanding student, versatile and *bonita*. In *La Escuela Inter-Americano de Verano* (The Inter-American Summer School) she studied vocabulary, phonetics and grammar. Also each afternoon she had 3 hours of practical conversation with a private tutor on tour of the city. It was a stimulating experience.

Last winter Lois attended the Colorado Women College, at Denver, and is there again, yet her future is undecided.

Earned Place on Honor Roll

On the college Honors Convocation this year Lois is on the Dean's Honor Roll with one of the 2 highest grade averages in the school. She is listed with the Alpha Mu Gamma, international foreign language honor fraternity, and the Phi Theta Kappa, national junior college honor fraternity.

Lois has been offered a scholarship to Perry-Mansfield School of Theater, Dance and Arts which she attended the summer she was 16. Too, there is a possibility she might go to Oxford, England, on a scholarship. Lois likes library science study, too.

If their values are as clear and meaningful to her as her perspective of rural life, Lois will truly be able to analyze and grasp the fullness of her opportunities.

As a class assignment last year Lois penned her feelings for the land. It is an autobiography, warm and honest, written with such depth it might well serve as a pattern for other rural lives.

This story, graded A plus and kept by her instructor as a pattern for future students, leaves one amazed that a girl



Lois Degnan

should know so well the blessings of her environment, while many pioneers of our land fail to do so. This is Lois' story about:

The Influence of the Land in My Life

Our land has always had much to do with our family, more than an ordinary means of making a living. The love of the land has shaped our personalities in more than one way.

It's farming and ranching land in Kansas. Hardest thing for me to realize and admit is there's no beauty in that land until you know it—its physical attraction is nil. One half the farm is devoted to wheat land, the other half is pasture. There are almost no trees. The house is bluntly placed in the middle of the sparse division surrounded by a sense of nothingness which must be hard to get used to. I wouldn't know. I grew up with it, and what's more, I grew up with the farming and ranching attitudes that come from the land.

The wheat land is the flatter, perhaps duller, of the two, for it is marked by only a few draws. But it has a meaning to me such as few places have; the deep, earthy aroma of newly-plowed ground gets to my heart as almost nothing else can; the joy that is gotten from a carpet of green in the bleakness of winter, this the winter-wheat gives me; the familiar waving field of green turning into gold creates a sense of well-being that is comforting even tho funds are getting low and the wind and heat are driving emotions to a very low pitch. It is the focus of all interest as harvest draws near. The neighbors visit to compare our crop

with their own, and we watch with anxious hearts the clouds in the northwest. Then harvest has come, and all is excitement and hard work. The comforting cycle is then started again—centering on the wheat land.

Hills and Beautiful Views

The pasture land is different. It requires very little work, but almost as much worry, for it has to have rain. The pasture has more hills, and some of them have beautiful views. One of these can be seen from the taller of twin mesas. The country spread out below takes my breath away. The grass always has a green-yellow-brown shade that is fascinating. The draws in the pasture are more interesting than those in the fields, for they're more pronounced with places to jump the horses. It's from horseback that I always see the pasture, and some of my proudest moments have come when Dad asked me to help with the cattle. The cattle lend a personality to the pasture. They are the reason for its existence, and the attention it gets. Thus the pasture land is different, but is just as justified in our lives.

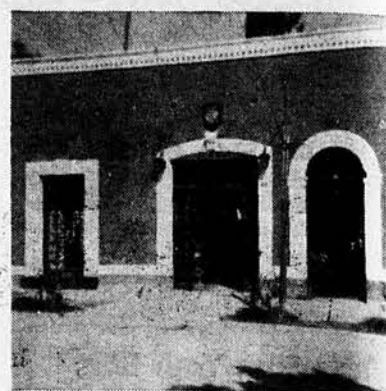
These are the components of the land, but we never divide them in such a way. Our attitude is always toward the land as a whole; fields are no more important than the pasture, and our feelings are toward both as a whole.

"Always Have the Land"

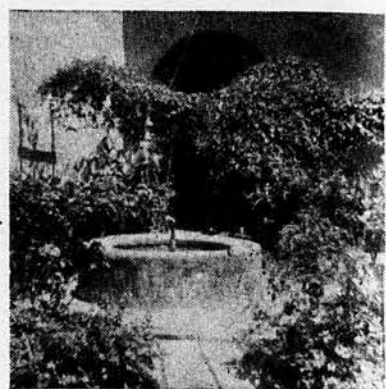
Mother especially is proud of our holdings. She, as is proper for a woman, does the worrying. She it is who brings up the dwindling bank account and the fact that we are spending way beyond our means. And when she manages to convince us that we're headed for the poorhouse, she cheers us and herself with, "But we still and always have the Land." And we've developed the attitude that we shall always have the land. Thus we are given security. She has had as much to say in the building of the place as any, and she is almost prouder of it than any. Almost.

But Dad has been the one to ally himself with that land. He and the land have grown together. They've absorbed each other's personalities until I can think of them together. They have the same benevolence, the same generosity, that is so prominent in both. They have the same liking for people for our land isn't your cold, reserved type, but is gracious and hospitable and welcomes people, makes them feel at home. Dad has the same quality. And I feel that always both of them will be there to take care of me, they are so combined in my mind.

Richard, my "little" brother, has much the same feelings, I suppose. I don't think he ever thinks about the



"NOT THAT," Lois said, but it was the right address where she was to live.



PATIO to the spacious 10-room house where Lois lived.

land, as such. He takes it for granted, not because he doesn't care, but because it's his whole existence. It's so much a part of him the two separated are hard to imagine. Richard rides, trains horses, so the pasture gets more of his attention than the fields. He's the one who works with the cattle, under Dad's supervising eye. He uses every part of the place for a practical purpose. That plowed ground is an excellent place to calm down a "rambunctious" horse. The draws in the pasture are good for practicing jumping, and the whole place answers his needs for each phase of horse training, which is his life. So I know his feelings must be the same.

As for me, someday I hope to help take charge of that place, make it grow, produce, and change. I believe that in such a life God is glorified, man is strengthened, and the things of the world fulfill their purposes.

The love of the land is in me, in Mother, in Dad, in Richard. It has shaped us into what we are. By studying our land you can study us, and by knowing it you can know us. And I'm proud of it.

How Will You Have Your Chicken? Eighty per cent of us eat it fried, next in order— broiled, roasted, stewed

ALMOST HALF the Nation's families have chicken to eat once a week or oftener, according to a survey conducted by American Weekly, a national magazine. Results of a survey of 889 families from coast to coast were reported last month at the Poultry Industries Fact Finding Conference at Kansas City:

1. Three families out of 1,000 don't serve chicken at all, 45.4 per cent serve chicken once a week or oftener, 46.2 per cent serve it once or twice a month.

2. When chicken is served hot, 80.4 per cent serve it fried, 59.1 broiled or roasted, and 35.2 per cent of the families serve it stewed.

3. When chicken is served cold 47.5 per cent serve it in sandwiches, 40.7 per cent cold fried, 36.9 per cent in salads and 23.9 per cent cold sliced.

4. Frozen chicken accounted for 26.9 per cent of purchases, 83.5 per cent were chilled.

5. About 51.8 per cent buy chicken whole but have it cut up, 43 per cent buy chicken whole, 26.7 per cent buy parts only.

6. Most important factors affecting purchase of chicken include flavor, 67.7 per cent, and tenderness, 62.2 per cent; less important factors include butcher's recommendations and chicken always being available.

7. Some 48.8 per cent buy chicken in a grocery or food store, 27.1 per cent in a meat market, 20.8 per cent from a farm or farm market, 17.4 per cent in a poultry store.

Is It True?

Is it true horses can sleep while standing?

This natural feat in horses is possible mainly because of special muscular mechanisms in their powerful legs. Recent experiments showed horses rest better on their feet than on their sides. Sometimes they can go for months without lying down. Elephants can sleep well while standing, too.



"My brother, Richard Degnan. He rides, train horses, so the pasture gets more of his attention than the fields. He is the one who works with the cattle."

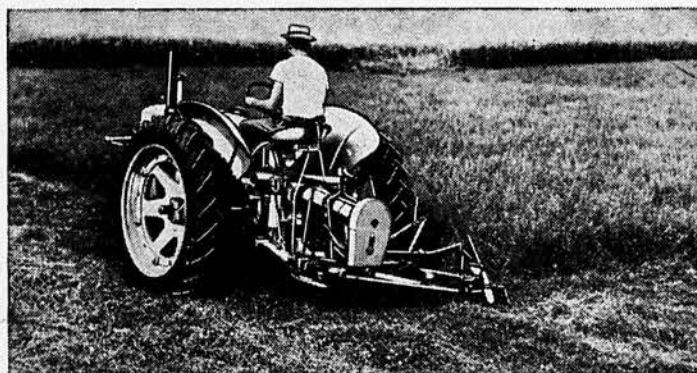
New Fast Helps in Haying...

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CASE LOW-WHEEL SIDE RAKE
CASE AUTOMATIC BALER

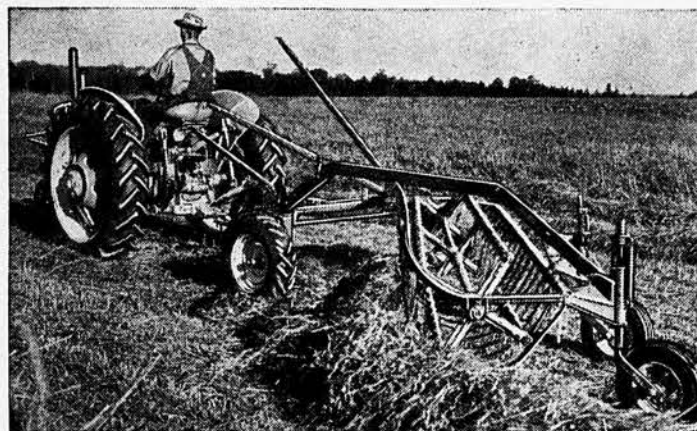
Shorten Every Step from Field to Barn

Cut your hay at the peak of its valuable protein content—rake before leaves begin to shatter—bale before sun and showers steal precious feed value—have a better chance to finish the job ahead of the weather. That's how these Case hay machines can help you beat haying hazards.

With the Case Automatic Balers, the help you save can be kept busy hauling away that steady stream of firm, uniform, square-cornered bales—so easy to handle, feed, or sell. You'll see why owners say it "Makes the nicest bale I've ever seen."



Just a few minutes needed for one man to mount Eagle Hitch Mower on Eagle Hitch of 3-plow "DC," 2-plow "SC," or low-cost 2-plow "VA" Series Case Tractor. See the new semi-mounted "TA-7," too.

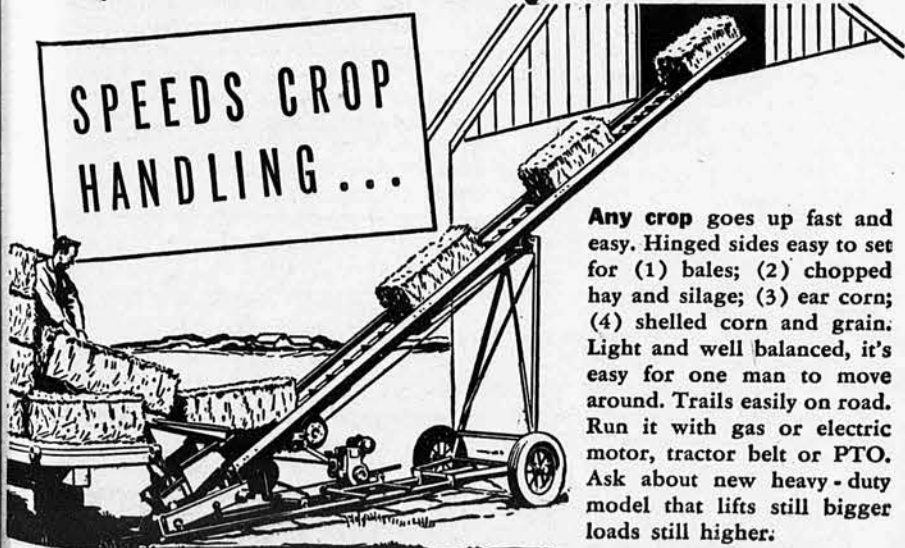


New Low-Wheel Case Rake works fast to beat the weather, yet gently to save the leaves. Builds fluffy, fast-curing windrows. Saves you money by using old auto or implement tires.



CASE Four-Way Elevator

SPEEDS CROP HANDLING...



Any crop goes up fast and easy. Hinged sides easy to set for (1) bales; (2) chopped hay and silage; (3) ear corn; (4) shelled corn and grain. Light and well balanced, it's easy for one man to move around. Trails easily on road. Run it with gas or electric motor, tractor belt or PTO. Ask about new heavy-duty model that lifts still bigger loads still higher.

See your Case dealer now! Get all the details on how and why the new Case Automatic Balers does such splendid work in many varieties and conditions of hay. See its simple construction—contrast its relatively few simple parts with more complicated mechanisms. See how easy it is to adjust and run—how easy to own. And mail the coupon for free booklets!

"HOW TO MAKE HIGH-PROTEIN HAY"

This educational booklet shows the easy way to put up the best hay you've ever made. Mark here or write in margin any machines that interest you. J. I. Case Co., Dept. D-47, Racine, Wis.

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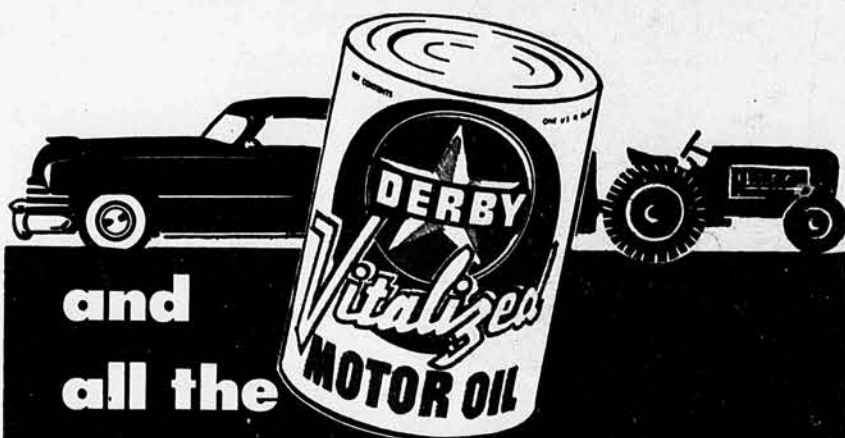
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KEYSTONE Hybrids
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No. 9 in a series on interesting
facts about Kansas crops . . .

THE STORY OF CLOVER

By **GORDON WEST**

CLOVERS are one of the oldest and most practical crops. In 800 A.D. they were called "clafre" in the old Saxon tongue. The Dutch called clover, Klaver; the Danes, Klover, and the Germans, Klee.

The clovers and their kin make up hundreds of species—there are more than 300 species of clover, alone. According to the USDA Yearbook of Agriculture for 1943-47, there are more than 14 species of clovers and sweet clovers of great importance to U. S. agriculture.

There are dozens of uses for this popular and profitable crop: hay, pasture, soiling, silage, green manuring, cover crops, soil improvement. Probably one of the most unusual uses of clovers is growing 4-leaf clovers as a business!

Growing "lucky" 4-leaf clovers in the Canal Zone as a hobby turned into a profitable enterprise for one man. One year he grew 3 million of them—for good luck charms, greeting cards and place cards.

A shamrock (3-leaf clover) is the national flower of Ireland. Some say the true shamrock is the wood sorrel. The word shamrock is an Irish one, seamrog, meaning "little clover."

Earliest history of red clover was in Spain, in the 15th century. For more than 300 years this popular clover has been grown in England. A native of Europe and Northern Asia, red clover gradually was carried to country after country until today it is a "world-wide"



crop. Kenland red clover is growing in popularity—28 states now recommend the variety and annual certified seed needs have been estimated at 15 million pounds (to be reached by 1954 or 1955).

According to Kansas State College specialists, sweet clover is the best supplemental pasture and soil-improvement crop that can be grown in Kansas. Many other states too, have found the practical values of the crop: it's good as a hay crop, for utilization for seed production, as well as being a nitrogen-fixing crop.

Red clover seed was brought to the United States in 1747, from Europe and Asia. Crimson clover, native of Europe, first was planted here in 1818. Ladino, the popular white clover, is from Southwestern Europe. Alsike was brought here in 1839, a native of Northern Europe. It is thought seed of the white clover was carried to many new sections of the country by the Union armies during the Civil War.

Names of species of clovers are interesting and varied—black medic, Japanese, Buffalo, Carolina, alsike, dollard, Dixie, hubam, rabbit foot, and straw-berry—to list only a few.

Tests with Nitrogen for Corn and Wheat Summarized by KSC Agronomist

WHEN IS BEST time to add nitrogen fertilizer to Kansas corn and wheat crops, and what is the best application method to use?

Dr. F. W. Smith, Kansas State College agronomist, recently came up with these answers in summarizing research results by various Kansas soils specialists over a 5-year period:

(1) Regardless of time of year fertilizer is added, you'll get about as many bushels of corn; or whether application method includes broadcasting ahead of planting, deep-placement at planting time or side-dressing with ammonium nitrate. Corn yields averaged 91.9 bushels per acre at 4 experiment fields when fertilizer was broadcast ahead of planting. Yields were same from deep-placed fertilizer at planting; average was 91.6 bushels when half the nitrogen was broadcast at planting time and remainder added as side-dressing. Treatment included nitrogen alone or in combination with superphosphate and potash.

(2) Increases in wheat yields are virtually the same whether anhydrous ammonia or ammoniating solutions were injected into the soil; or whether dry nitrogen fertilizer is added by conventional methods.

(3) More bushels of wheat per acre can be obtained by drilling in fertilizer at seeding time or placing it on plow-sole, than by broadcasting fertilizer on

stubble applied ahead of planting time.

(4) In most instances, time of application of nitrogen for wheat is not an important factor so far as yields are concerned. Yields were 36.1 bushels per acre, or 12.2 bushels higher than on unfertilized soil, when 50 pounds of nitrogen were added at seeding. Yields were 36.9 bushels when application was split—25 pounds added December 20 and 25 pounds at seeding. When using mixed fertilizer, it may be profitable to supplement fall nitrogen applications with winter or spring top dressings. Time of application usually can be governed by ground conditions rather than actual calendar date. Such applications can be made as late as April 1, if necessary.

(5) Nitrogen sprayed on wheat foliage is less effective in boosting yields than are applications of fertilizer made directly to soil.

(6) Spraying wheat foliage with nitrogen has had more effect in increasing protein content than in boosting yields per acre, especially when made in late April or May.—Middle West Soil Improvement Committee, Chicago, Ill.

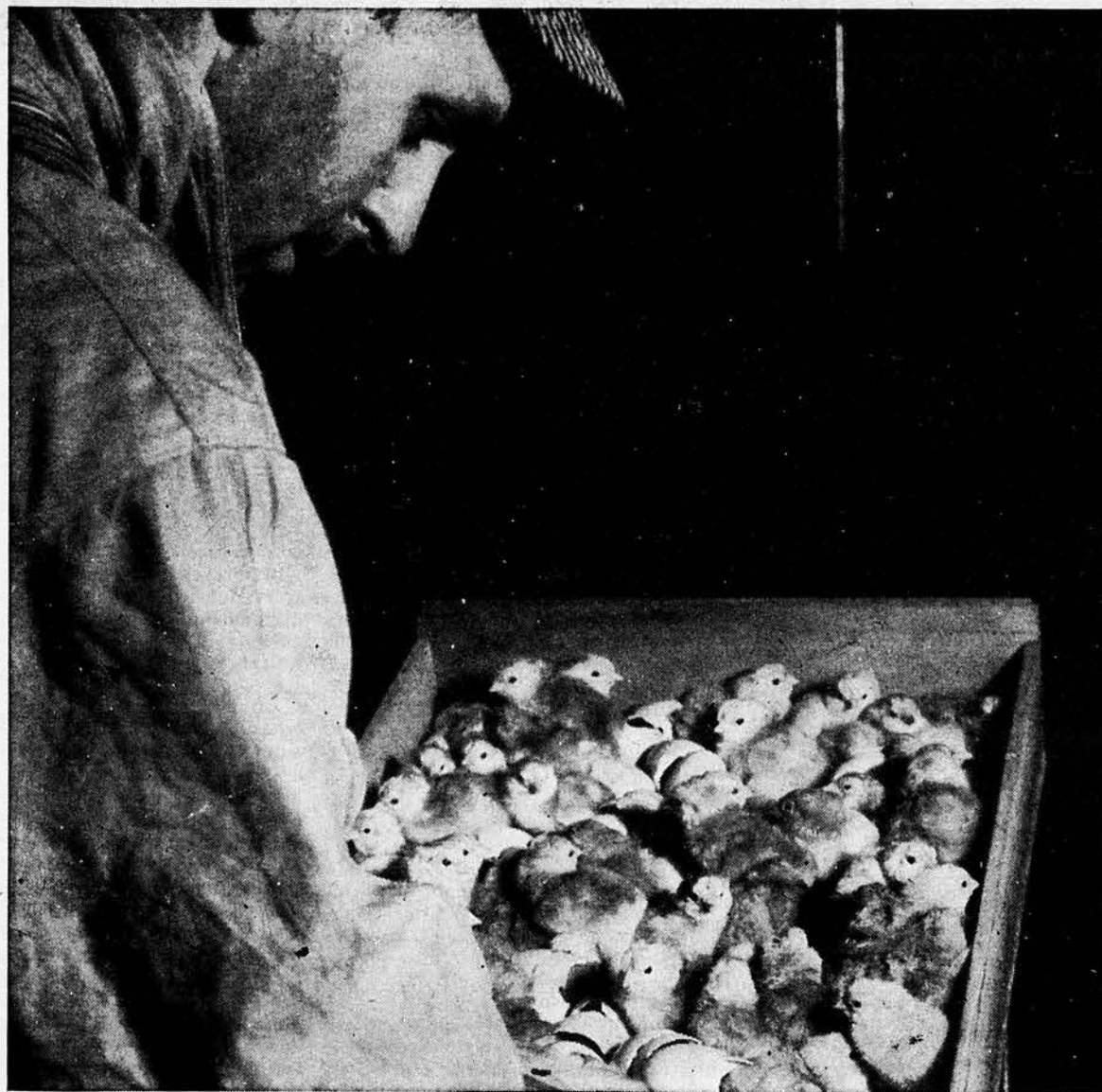
Celebrates 25 Years

Strong 4-H Club in Riley county in March celebrated its 25th anniversary of organization with a special event at Strong schoolhouse, near Manhattan.

KNOW WHAT YOU SOW

A limited supply of "Know What You Sow" charts for 1953 are now available for free distribution by the State Board of Agriculture. The charts list latest recommended crop varieties for all major Kansas crops in all regions of the state.

They were prepared in co-operation with Kansas State College, are designed to encourage planting adapted varieties. They may be obtained by writing Kansas Farmer, Topeka, Kan.



How many of your chicks will live? It may well depend on you—and the help you give them to grow strong and fight off the enemies that lurk in every brooderhouse. Coccidiosis alone is said to kill one out of every 10 baby chicks started. Read below about the latest developments in the constant fight to help more chicks live.

Can We Save More Chicks?

*New Life-Saving *Livium may be answer. It combines high power Antibiotic and Vitamin B-12 with new Anti-Coccidiosis Wonder Drug.*

Save just one more chick than last year—and it could mean an extra 200 eggs for you. Save 10 more chicks and it may be 2000 extra eggs.

That is certainly a good goal to aim for this spring, by the look of poultry and egg prospects. And here's news of a feed improvement that may help you.

For the past three years, a major factor in our fight to save more chicks has been Livium, an antibiotic and vitamin packed feed improvement. Livium has probably helped save the lives of countless chicks since its addition to Nutrena Chick Starter.

But now Livium has been improved to help save even more chicks.

A new, proven anti-Coccidiosis drug has been added to give Livium new life-saving power. That's why we call it new Life-Saving Livium.

This new development is so important, we honestly believe the new Life-Saving Livium can help Nutrena Chick Starter save more chicks than ever before.

In the first place, new Life-Saving Livium helps give baby chicks a fast start in life. It supplies vital nutrition and

growth power they need for building strong bodies free from many common ailments caused by faulty nutrition. Result: chicks should grow fast, healthy.

And, from the very first day your chicks go on Nutrena Chick Starter, they get protection from those heavy, costly outbreaks of Coccidiosis. Plus that, new Life-Saving Livium actually allows birds to build natural immunity to this chick killer.

In addition, the nutritional ingredients in Nutrena Chick Starter can now be more effective. With Coccidiosis in check, the antibiotic, Vitamin B-12 and other nutrients, get a better chance to get thru the digestive system and into the blood stream. And chicks should get more nourishment from each bite of feed.

Never before have we been able to offer a chick starter with so many benefits. Yet, Nutrena Chick Starter, stepped-up with New Life-Saving Livium still costs no more than other well known feeds.

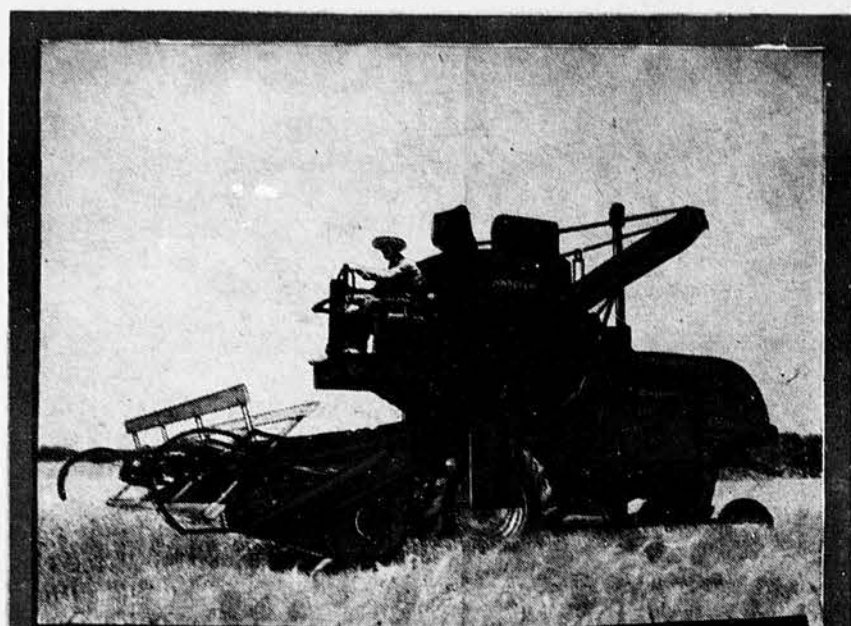
When chicks go to range, around the 8th week, they can still get this help to prevent Coccidiosis outbreaks. Nutrena Grower also contains Life-Saving Livium.

So plan now to start your flock out with this new life-saving, body-building help. If you've already started your 1953 chicks, it's still not too late to switch to Nutrena Chick Starter, with Life-Saving Livium.

*Livium is a trade mark product of Nutrena Mills, Inc., Minneapolis, Minn.



Put this new Life-Saving Livium to work in your poultry house this year. You may be amazed at the results you get. Call or see your nearby Nutrena dealer now for Nutrena Chick Starter. (Advertisement)



You Go Through Harvest
WITH THE
Greatest of Ease



The field is one you've harvested many times before. But this time everything's different. The day seems shorter. The air is fresher. The field seems smoother. The crop threshes easier. *This time you're at the wheel of a different combine—the John Deere No. 55—the famous leader of the self-propelleds.*

Unusual ease of operation and control from the high, roomy operator's platform makes time fly in the field.

Because you're high above the dust and dirt, the air is fresher and cleaner.

Mounting the engine and grain tank on top of the No. 55 gives you equalized weight on the wheels for best traction and stability, easier steering and more uniform cutting—makes every field seem smooth and level.

Hydraulic selective ground speed control which permits "on the nose" matching of your travel speed to the

crop condition, *plus* tremendous capacity in feeding, threshing, separating, and cleaning units, insures smooth going in the heaviest crop—the toughest threshing.

Yes, every round, every day, every year, the hungry hum of the No. 55 will be sweet music to your ears—sweet music because it saves more grain or seed from every acre. Sweet music because it harvests more acres every day. Sweet music because harvest costs are lower. Sweet music because with the No. 55, *you go through harvest with the greatest of ease!*

See your John Deere dealer and place your order now for a John Deere No. 55—the leader of the self-propelleds.

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Thomas Jefferson, Farmer at Heart

He contributed many things to the welfare of agriculture and the American way of life

By JAMES S. BRAZELTON

THOMAS JEFFERSON, third president of the United States, always gave his occupation as farmer. While Secretary of State in 1793, he wrote to an unidentified correspondent, "When I first entered on the stage of public life (now 24 years ago) I came to a resolution never to wear any other character than that of a farmer." He dressed the part even as president, for in the book, "The Rose of Old St. Louis," he is mistaken for a farmer and is described as wearing plain, almost rough clothes, but riding a magnificent horse. This is true to fact, for he was fond of horses and handsome equipages and his favorite pastime was horseback riding.

Unlike our first president, Thomas Jefferson was not an outstanding farmer. Even comparing him to the average Virginia farmer of those days, the author of the Declaration of Independence was not a practical success. He was willing to confess his failure by yielding control of his estates to his grandson. One cannot be expected to excel at everything, and farming was only one of the many widely different fields of his activity. He wrote 3 books and compiled his own edition of the Bible. He was a musician, architect, landscape gardener and inventor. In mathematics he was a marvel. He could read 6 languages.

Wanted to Live on Land

Thomas Jefferson was passionately fond of country life and was continually talking about retiring from politics so he could enjoy the tranquillity of the farm. He never tired of discussing advantages enjoyed by those who lived close to the soil. It was his idea this should be kept an agricultural country. For that reason, he opposed introduction of manufacturing establishments and immigration of artisans. He once wrote to John Jay, "I consider the class of artificers as panderers of vice and instruments by which liberties of a country are generally overthrown."

He abhorred cities, and considered them dangerous to public welfare. He expressed belief that, "Cultivators of the earth make the best citizens. They are the most vigorous, most virtuous and most independent. They are tied to their country and wedded to its liberty and interests by the most lasting

bonds." These attributes are as true of present-day farmers as they were of tillers of the soil in Jefferson's time.

A widow's son at 14, Jefferson inherited from his father 1,900 acres and became head of a family of 8 children. He turned to law to support the large family of his mother and was admitted to the bar in 1767. By 1774, he had increased his estates to 5,000 acres. Several fine farms came to him with his wife, which increased his holdings to nearly 11,000 acres. In 1774 he became owner, by land-patent, of the Natural Bridge in Rockbridge county, the tract comprising about 150 acres. He acquired this out of a sheer art collector's spirit, for he was in love with the place, considering it "the most sublime of nature's works."

"Noblest House in Virginia"

He bought the little mountain at whose foot he was born, built at its summit, from plans of his own drawing and materials of his own making, the noblest house in all Virginia—Monticello. From the cupola of the mansion one can look into half a dozen counties, and the view extends about 47 miles to the Blue Ridge mountains. In full view of Monticello, at the base of Ragged Mountains on the west, sits the University of Virginia, founded and planned by architect Thomas Jefferson. The home of President Monroe, known as Ashlawn, lies about 8 miles down the valley; Madison's home, a few miles north, was called Montpelier.

Preparatory to his return to France in the summer of 1825, General Lafayette came to Monticello to say "Good-bye" to his distinguished friend—Jefferson. A dinner was given to him by the professors and students of the university, at which Madison and Monroe were present but Jefferson was too feeble to attend. It is not often so distinguished a company has gathered at a farmhouse as the 3 ex-presidents and their guest. It was not an uncommon sight for the citizens of Charlottesville to see the 3 ex-presidents together. They often met and talked with one another on the street or in the square, and people would always gather around them and listen to their conversation and follow them wherever they would go.

(Continued on Page 13)



Jefferson loved his garden and the fields, the orchards and his asparagus beds. In his garden grew named hyacinths and tulips out of labeled bulbs that came from Europe. When he was minister to France (1779-81) he is said to have examined every useful tree and plant in that part of Europe and studied its cultivation. Monticello became a great experiment station to which he sent seeds, roots, nuts and plants to be tried there.

He had great hopes for culture of the olive. In his enthusiasm he wrote, "The olive tree is assuredly the richest gift of heaven." He sent over 2 shipments of about 500 olive plants to the Agricultural Society of South Carolina. The culture was begun with enthusiasm but whether from want of skill, perseverance, the unsuitableness of the climate or excessive richness of the soil, the trees did not flourish.

He Got the Rice

Rice was another of Jefferson's agricultural hobbies. Seeing that Italian rice was of better quality than other kinds sold in Paris, he desired to send some home. The government was well aware this rice was different and for that reason prohibited its exportation on pain of death. Reporting to his superior officer in the Department of Foreign Affairs, who was then the profound and austere John Jay, he wrote, "I have taken measures, however, which I think will not fail for obtaining a quantity of it."

This he smuggled across the frontier into free Genoa in his bulging pockets. The contraband rice reached the president of the Agricultural Society of South Carolina, who distributed it

Thank You

I have read *Kansas Farmer* for a great many years and like it.—
W. J. Huscher, Meriden, R. 2.

among the planters, a dozen or more grains to each. These were carefully sown and watched and were the origin of our present staple, the best rice in the world.

In 1810, when the country was pursuing a policy of commercial isolation, it was a mark of high patriotism not to use imported goods. About this time, Merino sheep were introduced with a view to improving the wool of domestic textiles. Demand for them opened a harvest for the alert profiteer who was able to get more than \$1,000 a head for these sheep.

Soon Had Large Flock

This pleased Jefferson not a bit. So he imported some purebred Merinos and advertised in the Charlottesville paper any farmers who wished to improve their stock could send him 2 ewes and he would keep them until the lambs were old enough to wean, then give the owners choice of lambs and they were to leave the other lamb and both the ewes. In a few years Jefferson had an immense flock.

He did the same way with hogs. He imported some long-bodied, short-legged swine called Calcutta hogs. He did some newspaper advertising. Farmers brought him 3 sows and when they came for them they took 2 home and left one. In this way Jefferson soon got a large number of hogs and the stock was spread over the whole country.

(Continued on Page 14)

Stop Rust!

Stop that rusting of your farm equipment, with Rust-Oleum. Read a new 6-page color folder on how to spray or brush new rust-preventive coatings. It's "Stop Rust," published by Rust-Oleum Corp., Evanston, Ill. For your free copy, write Farm Service Editor, *Kansas Farmer*, Topeka, Kan.

**Your Farm Deserves the
BEST Hybrid Seed Corn**

...plant CORNHUSKER HYBRIDS FOR GREATER CORN PROFITS!



For Example, See The Record of CORNHUSKER 148

... in the 81 CORNHUSKER research tests (1942-1952 inclusive) where it has been compared with the most popular competitive hybrids for each of the various areas.

Here's the margin by which CORNHUSKER 148 out-yielded the average of the competitive hybrids:

Northeastern Nebraska.....	(15 tests)	4.91 bu.
East-Central Nebraska.....	(19 tests)	4.77 bu.
Central Nebr., Irrigated.....	(11 tests)	6.53 bu.
So.-Central Nebr., Irrig.....	(9 tests)	8.71 bu.
Plains Area of Nebraska.....	(13 tests)	4.54 bu.
S. E. Nebr. and N. E. Kans.....	(13 tests)	3.70 bu.
Southwest Iowa.....	(1 test)	.39 bu.

That's an average EXTRA yield of nearly 5 bushels! ... about 36 bushels from the 7½ acres normally planted with each bushel of seed corn! 36 bushels at current market price is right at \$50 additional return from each bushel of 148!

Your CORNHUSKER dealer has good supplies on hand. See him today!

CORNHUSKER HYBRID CO., Fremont, Nebr.

148 IS ONLY ONE OF
CORNHUSKER'S MANY
SPLENDID HYBRIDS. ASK
YOUR CORNHUSKER DEALER
ABOUT OUR OTHER NUMBERS
THAT MAY BE EVEN BETTER
ADAPTED FOR YOUR CON-
DITIONS.

CAREFULLY LOCATED... HAND-
PLANTED AND THINNED FOR
UNIFORM STANDS... RE-
PLICATED... ACCURATE!

ALONG WITH INCREASED
YIELD YOU GET STRONG
STALKS, DROUGHT RESISTANCE,
ATTRACTIVE HEAVY-WEIGHING
EARS THAT SHELL OUT MUCH
MORE THAN MEASURE... AND
EXCEPTIONALLY CLEAN,
EASY PICKING.

SUPPOSE "CHEAP" SEED
CORN WAS GIVEN YOU
FREE. YOU COULDN'T
AFFORD TO PLANT IT!

Thomas Jefferson, Farmer at Heart

(Continued from Page 13)

Go Fly a Kite!

It's a lot of fun to fly a kite made by your own hands. And you can make a kite from material around the house, and a few extra pennies. Want some hints and some new ideas so you'll have an original, interesting kite form on a strong and properly-built framework? Write to Uncle Cordy, *Kansas Farmer*, Topeka, Kan., for the leaflet, "Up to the Clouds With a Kite!" Enclose 3c to cover cost of mailing.

try. He didn't care about making money from his imported stock. His great object was to get it widely scattered.

He had a threshing machine imported from Scotland, where it was newly invented. It was the first thresher ever seen in Virginia. It answered its purpose so well all planters in the neighborhood sent for machines or had them made at home. "This machine is conveyed from one farm to another in a wagon, and threshes from 120 to 150 bushels a day," Jefferson reports. And refers also to a "machine for sowing seed in rows," invented in the neighborhood.

I have purposely deferred mention of the purchase of the empire of Louisiana until the last for this is the crowning achievement of Jefferson's career. It was without question the greatest

benefit he conferred upon his country, and contributed more to his honor than any other incident or public act with which he was connected. The purchase from France in 1803 of this vast area for \$15,000,000 doubled the territory of the United States and is the greatest peaceful annexation the world ever saw. Out of this territory, which extended from the Mississippi river to the Rocky mountains, the most important states of the Nation, agriculturally speaking, have been carved.

Jefferson was very different from the 2 presidents who had preceded him. He affected none of the pomp and grandeur of Washington and Adams, who believed the President should hold himself aloof from the people. Instead of elaborate costumes, Jefferson wore only the simple clothes of the man on the street. Disdaining great coaches, he either walked or rode horseback to the capitol.

In the "Rose of Old St. Louis," the Washington as Jefferson knew it is described as a forlorn village, "with stretches of mud road having neither houses nor fields to outline it, and then for a block or more bare and ugly houses, hideous in their newness, not having even the grace of age to soften their ill proportions."

Jefferson died at Monticello on July 4, 1826, aged 83. John Adams, with whom he differed politically, died on the same day. Both deaths were 50 years to a day after the signing of the Declaration of Independence, which, we must not forget, was penned by Thomas Jefferson.

Have Not Reached Peak in Cattle Montgomery Tells Livestock Men

HOPE THAT the wide variation in ad valorem taxes on cattle in Kansas can be remedied was expressed at the annual meeting of the Kansas Livestock Association, at Wichita, March 12, 13 and 14.

O. W. Lynam, Burdette, head of the association's tax committee, reported that "in some counties cattle have been assessed up to 100 per cent of value, while the state average was 25 per cent."

"We should keep assessment on the county level," said Mr. Lynam. By working with county assessors, clerks and commissioners, the problem can be solved, he believes. As result of conferences held with county officials this past year considerable adjustment is expected to take place in assessments this year.

"Priced Off the Market"

In his annual report, President Charles E. Waugh, Sharon Springs, told convention delegates: "The cattle industry has been maneuvered into a position of being priced off the market. Adjustment has long been overdue but we didn't think it would be so drastic. We need to develop beef animals with

more lean meat and less tallow weight."

George Montgomery, head of the economics department, Kansas State College, said, based on past cattle cycles, we have not yet reached the peak in cattle numbers. "Cattle numbers have increased 22 per cent since 1949, exclusive of cows for milk. Increased slaughter is due for the next year or so as liquidation occurs. Favorable signs for the cattle industry include increasing population, high disposable incomes, high employment, and better eating habits of people."

Beef Sales Are Up

Aled T. Davies, director livestock department, American Meat Institute, said: "Beef sales are up 30 per cent over a year ago. Supports on basic commodities, however, are leading toward controls that may be complete."

Earl Kielhorn, Cambridge, was advanced to presidency of the association. J. W. Birney, Bucklin, was named vice-president, and A. G. Pickett, Topeka, was retained as secretary-treasurer. New directors are R. H. Joyce, Ulysses, 5th district; Richard Robbins, Pratt, 5th district, and Lee A. Perkins, Richmond, 2nd district.

I WONDER HOW THAT STARTED . . .

"Red Tape"

As far back as 1658 in England it was the custom to tie official documents in tape of a pinkish red color. An Englishman—Sidney Smith, wit and writer—did much to popularize the term in its satirical sense. Term began to be popular, meaning a delay of decision by giving unnecessary attention to details. People began to poke fun at everlasting tying and untying of red tape around government packages and papers. Hence, too much "red tape" involved!



Highlights of the resolutions were as follows:

Asked Kansas Experiment Station to step up experiments on brush and weed eradication of pastures.

Asked for high tariffs on foreign food products.

Urged U. S. Department of Agriculture be allowed to increase soil conservation and watershed treatment programs.

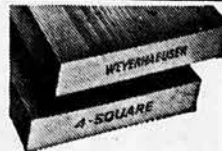
Protested paroling of convicted cattle thieves who do not serve any part of their sentence.

Urged legislative action to free state

of vesicular exanthema disease of hogs.

Urged an increased contribution from 25 cents to 50 cents a car to the National Livestock and Meat Board for advertising meat and meat products.

The convention also went on record as approving the national livestock industry's committee report to Secretary of Agriculture Ezra T. Benson. This report recommended the Government give serious consideration to buying beef for the South Korean Army, and suggested the Government carefully check the beef purchase program for all armed forces.



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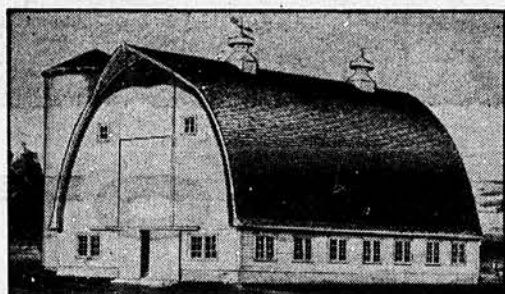
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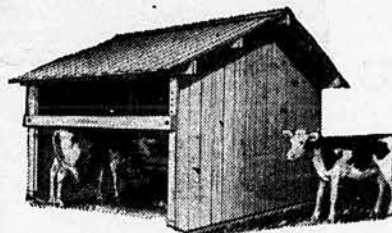
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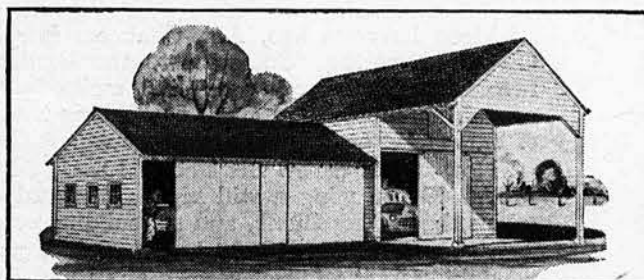


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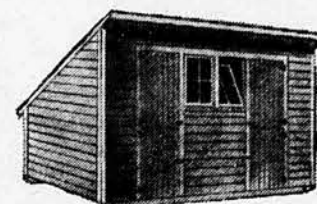
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Features for the Harvest You Have Always Wanted

- New SIX-FOOT header.
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Marketing Viewpoint

LEONARD W. SCHRUBEN, Feed Grain

What is the 2-price system for wheat?—J. K.

Publicity has recently been given to a rather old idea. In the agricultural depression of the 1920's, several ideas were proposed for dealing with surplus agricultural products. The 2-price system was one.

The 2-price system could operate in one of several ways. As the plan generally is applied to wheat, one part of the wheat crop is sold at one price and another part is sold at a lower price. The quality of the wheat may be the same for both prices. The higher price would be received by farmers for that proportion of the total wheat crop used for consumption as food in the United States. The lower price could apply to wheat sold for export, or wheat used as livestock feed, or both.

The basis for a 2-price system for wheat rests on 3 ideas. One is consumers will not reduce greatly the amount of bread and other products made from wheat used even if prices are maintained at high levels. In other words there are no close substitutes. The second idea is that foreign buyers will not pay more for our wheat than they have to pay elsewhere, and livestock feeders will not feed wheat if it is more economical for them to feed something else. The third idea is that wheat prices in the U. S. should be supported above feed grain prices and above world wheat prices (at least under present circumstances).

Actually the U. S. has been operating under a form of 2-price system almost continually since 1931. We have been paying an export subsidy out of the Treasury which means the U. S. is selling wheat to foreign buyers cheaper than in the U. S. market. How long will taxpayers continue to finance this operation? The current proposals, as I understand them, would provide that wheat farmers bear more of the weight of the 2-price system.

Wins Scholarship

A \$100 scholarship for being 4-H member with best turkey project in 1952 goes to Marilyn Otte, Great Bend. The Kansas Turkey Federation made the award possible for the 16-year-old Barton county girl. She was state turkey project award winner and purchased 163 birds a year ago. At the county fair she exhibited championship pen of Broad Breasted Bronze birds and reserve champion pen of White Hollander turkeys. She has been county champion in turkey, home economics, poultry, baking, project achievement and home improvement.

Invite Kansans

Two Kansans were invited to attend the industry-wide corn conference held in Washington, D. C., March 4, by Secretary of Agriculture Benson. They are Herbert Clutter, Holcomb, and George Reinhart, Parsons. Thirty-eight men representing every segment of the corn industry, attended the meeting to consider the present corn situation and possible measures to stabilize prices and production.

Keep Some Bees

Tips on beekeeping are found in a new booklet of the A. I. Root Company, Council Bluffs, Ia., "Keeping Bees in Your Own Backyard for Pleasure and Profit." Cash in on a fascinating business or hobby. For a copy of the booklet, write Farm Service Editor, Kansas Farmer, Topeka, Kan. No charge.

COMING EVENTS

April 4—Bourbon county 4-H Club spring festival, Memorial hall in Ft. Scott, 9 A. M.
 April 4—Regional 4-H Club day, Atwood.
 April 6—Osage county dairy tour, afternoon.
 April 6—Hodgeman county machinery adjustment school, Jetmore.
 April 6—Dickinson county dairy housing tour.
 April 6-11—Manager-Inseminators Conference, Manhattan.
 April 8—Labette county livestock tour.
 April 8—Ottawa county dairy tour, 10 A. M. Places to be announced.
 April 8—Scott county Extension agents publicity school, Lakin.
 April 8—Linn county dairy tour with Ralph Bonewitz of KSC, Mound City.
 April 9—Dickinson county livestock feedlot meeting.
 April 9—Russell county dairy tour with Arthur Jacobs, Jr., and Leo T. Wendling of KSC.
 April 9—Cherokee county spring beef tour with Ray Hoss and Wendell Moyer of KSC.
 April 10—Ellsworth county balanced farming meeting, Ellsworth.
 April 10—Crawford county carcass demonstration meeting.
 April 10—Kiowa County Farm Management Association summary meeting with J. H. Coolidge and John Smerchek of KSC.
 April 11—Doniphan county better beef day, Horton, 9 A. M. to 3 P. M.
 April 11—Comanche county judging school, Coldwater, 8:30 A. M.
 April 13—Russell county winter meeting on livestock production and diseases with V. E. McAdams and Melvin Osburn of KSC, Russell.
 April 13—Norton county Farm Management Association summary meeting, Norton courthouse, 7:30 A. M.
 April 13—Jackson county soil conservation tour with R. C. Lind of KSC, Holton, 2 P. M.
 April 13—Sheridan county spring outlook meeting, Hoxie, 7:30 P. M.
 April 13—Shawnee county dairy day.
 April 13-14—Ottawa county home management leaders training, Extension room, 10 A. M.
 April 13-15—4-H Club leaders conference, State Fair Grounds, Hutchinson.
 April 14—Grant county land judging school with R. C. Lind of KSC, Ulysses 4-H building, 10 A. M.
 April 14—Wabaunsee county spring dairy day.
 April 15—Phillips county livestock school, court room, 1 P. M.
 April 15—Osage county beef and hog grading school, Osage City livestock yards, 10 A. M.
 April 16—Pottawatomie county dairy tour.
 April 18—Cherokee county regional 4-H Club day at Chanute.
 April 18—Regional 4-H Club day at Wichita.
 April 18—Labette county district 4-H Club day. Time and place unknown.
 April 18—Finney county district livestock and home economics judging school, Garden City fair grounds, 9 A. M.
 April 20—Linn county Farm Management Association summary meeting with J. H. Coolidge and Marvin B. Clark of KSC.
 April 21—Osage county meeting on buying, care and repair of household appliances.
 April 21—Scott county program planning meeting, Colby.
 April 21—Jackson county meeting on household electrical equipment with Harold E. Stover and Mrs. Ethel W. Self of KSC, Holton, 2 P. M.
 April 21—Cowley county land judging school.
 April 22—Linn county special interests meeting on care and repair of electrical appliances with Harold Ramsour of KSC, Mound City.
 April 22—Smith county Northwest district planning conference, Smith Center community hall, 10 A. M. to 3 P. M.
 April 22—Doniphan county care and repair of home appliances, Troy, 10 A. M. to 3 P. M.
 April 22—Clay county demonstration on structure, windbreaks and landscaping.
 April 22—Kearny county Farm Management Association spring summary meeting, Lakin.
 April 23—Lamb and wool school, Wichita.
 April 23—Cherokee county farm visits with M. A. Seaton of KSC.
 April 23—Butler county Farm Management Association summary meeting.
 April 23—Hamilton county spring outlook meeting, Syracuse.
 April 24—Fort Hays Roundup and Feeders Day, Hays.
 April 24—Rawlins county landscape and farmstead layout demonstration meeting.
 April 24—Grant county 4-H leader training school with Raymond Fort of KSC, Ulysses 4-H building, 10 A. M.
 April 25—Fort Hays judging school contests, Hays.
 April 27—Elk county Livestock Association educational night meeting on taxes, Howard Fair building, 8 P. M.
 April 27—Elk county National Home Demonstration Week celebration, Iola.
 April 27-28—State FFA 25th annual meeting, Manhattan.
 April 27-28—State high school judging contests, Manhattan.
 April 28—Norton county terrace maintenance and tillage demonstration.
 April 28—Jewell county contour farming demonstration, 10 A. M.
 April 28—Osage county Farm Management Association summary meeting, Lyndon.

Honor Dr. Bushnell

Kansas State College small animal research building has been named Bushnell Hall, in honor of late Dr. L. D. Bushnell. He headed the bacteriology department 35 years before retiring in 1947. He authored many bulletins and articles on poultry diseases and bacteriology. He died December 24, 1950.

THE CHAMP'S CHOICE AT INDIANAPOLIS!



THE SUPER
DETERGENT OIL

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THE OIL THAT
DRASTICALLY CUTS
ENGINE WEAR

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THE OIL THAT
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Hard-driving Troy Ruttman, 1952 winner of the Indianapolis 500 Mile Classic, averaged 128.922 m.p.h. to smash all records for this famous big car race. He chose world-famous Mobiloil for prize-winning protection:

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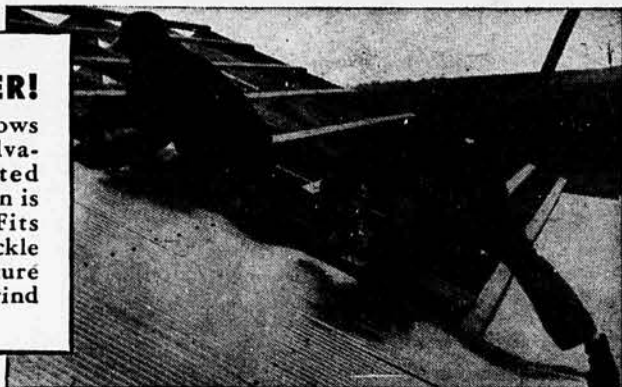
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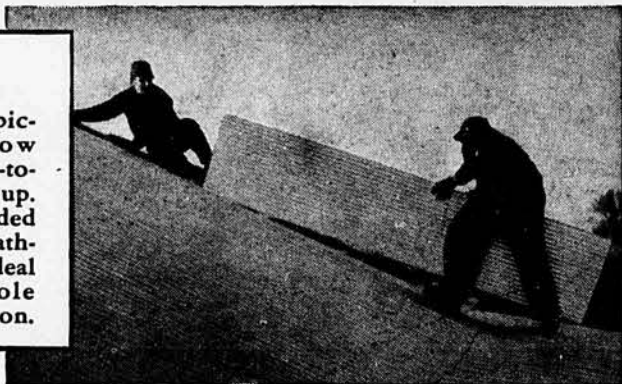
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New booklet shows how tough, galvanized corrugated steel Strongbarn is 56% stronger! Fits tight, won't buckle or bend, puncture or tear under wind and snow loads.



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Gives Plans and Directions, Shows You
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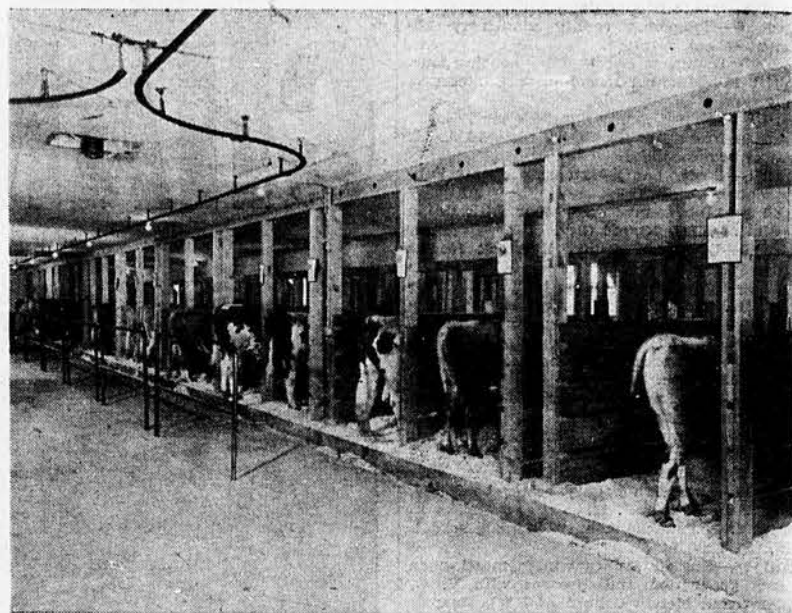
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BULLS OF KANSAS Artificial Breeding Service Unit, Manhattan, are housed in clean, sanitary stalls, and are weighed monthly to determine feeding changes needed.

REAL PROGRESS has been made by the Kansas Artificial Breeding Service Unit during its first 2 years of operation.

The unit's second annual report shows more than 5,000 farmers in 61 county organizations now are using the service in their herds. Nearly all county units have had a satisfying growth in membership and in number of cows enrolled. Conception rates have improved and farmers are better informed on how each can co-operate to improve service. County organizations are in good financial condition.

During the past year many improvements and refinements have been made in service, according to Professor F. W. Atkeson, head, department of dairy husbandry, Kansas State College.

Gives Local Units Credit

"A new uniform simplified bookkeeping system has been initiated in the county units," Professor Atkeson says. "Thru use of the International Business Machines, the monthly reports are in the hands of Kansas dairymen 20 days after the end of each month. Our Kansas Artificial Breeding Unit was the first in the United States to develop a uniform county bookkeeping system and the first to use IBM cards for field breeding records," explains Professor Atkeson. He gives directors of local county units credit for starting the uniform bookkeeping system.

"Kansas also was one of the first organizations to adopt plastic semen vials and plastic breeding tubes," says Professor Atkeson. "This was done to save labor in washing, and to reduce

return materials. This was not done, however, until extensive research in the field proved the practice sound."

During the 2-year period another man was added to the field service and greatly improved field assistance has resulted. Many bulls have been replaced until the bull battery now is the best ever. Improvements in the physical plant include a scale which makes it possible to keep monthly weights of each bull as a guide in feeding. New exercise lines have been added so that all bulls can be exercised naturally or mechanically each day.

Technical aid and assistance to the manager-technicians is the basic service consideration of the state unit. Along with establishing and maintaining a high conception rate, working with county agents, board of directors and members in promoting the program and intensifying membership in the counties is essential.

Each month every farmer co-operator gets a copy of "Bull Tales," a monthly report on conception rates, information about sires in service, shipping schedules, feature articles and reports from the field. According to Professor Atkeson, "Kansas makes the most complete report to co-operators of any state in the Nation."

An achievement of which the Unit can well be proud is its record during the devastating flood that hit Manhattan during 1951. During the flood not a single shipment of semen was missed and only one shipment was delayed. Airplane delivery to key points thru co-operation of key county units was used to solve that problem.

Tomatoes Claim First Interest When Garden Talk Gets Started

By WILLIAM G. AMSTEIN, Kansas State College

TOMATOES provide a number of questions and a good bit of discussion. Every time the subject of gardens arises, tomato-growing problems take first interest. Depending where you live in Kansas—that is east, central or west—brings out different questions and ordinarily will require some variation in the answer.

The variety question is still not fully answered. Kansas State College is sending out a series of tomato varieties to be tested at the several branch experiment stations and in other locations over the state this year. Few varieties do well in all sections of Kansas. Sioux might be an exception. Many gardeners use at least 2 varieties that are quite a bit different. One is selected to set early tomatoes, the other for later-season production.

In many Central and Western Kansas locations a crop insurance variety is needed. Sioux, Firesteel, Red Cloud, Porter, Bounty, or other similar early ones will usually set. Valiant, Stokesdale, John Baer (including Bonny Best and Chalk's Jewel) are useful where growing conditions average a little better. Main crop varieties are Rutgers, Marglobe and others of this type. However, they do not yield as well as early or as certainly as do the earlier varieties. However, where and when they do well they are the finest of all.

During recent years, hybrid varieties of vegetables have come into increasing importance. Some hybrid tomatoes do extra well. But in Kansas our results at best have been quite variable. As a rule the number of days to maturity is

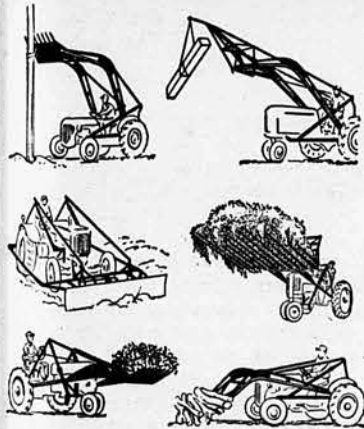
(Continued on Page 19)

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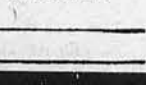
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of first importance in selecting hybrid tomatoes. The long-season varieties have best quality fruit but may not set fruit until too late in the season. The early-season type will set much better and earlier in most locations. Our 1951 results did not help much in a year like 1952. What 1953 will require may be still different. Plant some hybrid tomatoes but do not forget entirely the ones you have used with success before.

Some garden locations require use of a wilt-resistant variety. Rutgers, Pan America, Marglobe, Break-O-Day, and Fortune usually have enough wilt resistance.

Many gardeners get in a big rush and plant tomatoes too early. Early yield is important, but poor growing weather plus frost hazard is not likely always to add up to early tomatoes.

Good-quality, disease-free, healthy, stocky, well-rooted plants are desirable. Spindling, rank, overgrown, poorly-rooted, light-colored tomato plants are a poor choice.

Hormone Spray Will Help

Temperature is of greater importance in setting tomato blooms than is commonly recognized. If night temperatures drop below 60 degrees when the early flowers are opening the fruit set will be very poor. Likewise, high temperatures, over 95 degrees, will hurt chances for a set. However, use of a plant hormone spray on the early blooms when they first open will help promote the set. Materials such as Sure-Set, No-Seed, Stop-Drop and others have given good results in improving the early set.

Rutgers is very subject to poor set when temperatures are low. Often this results in the first 2 sets of bloom or hands failing to set.

Over-vegetative vine growth (too much nitrogen too early) at blossom time, high winds and lack of wind-break protection and thrips injuring tomato flowers are other causes of poor tomato set and yield.

Harvest a Week Early

Use of a starter solution will improve the early start of tomato plants after they are set out in the garden. Likewise, it will often make harvest of ripe fruit a week earlier as well as increase the yield as much as 2 or 3 tons per acre. Starter solutions are available under many trade names. They can be provided by adding 3 tablespoons of a 10-20-0, 5-10-5 or some similar fertilizer in 1 gallon of water. Use this mixture at the rate of 1/2 to 1 pint around each newly-set plant. Keep the mixture carefully stirred. Later on this treatment can be repeated at intervals of 2 or 3 weeks using a solution 2 or 3 times as strong. This can be poured on the soil a few inches from the main stem.

Some provision to stake or mulch tomatoes usually will pay good returns. This will help cut down on fruit loss from soil injury. Fruits kept off the ground are less subject to decay and are much easier to pick. Ordinarily heavy-yielding varieties such as Sioux should not be pruned if sunscald damage is to be avoided.

Prize-winning Cakes

How would you like to bake a perfect cake, one well-balanced in shape with layers of uniform thickness and slightly rounded on top; fine, even-grained, tender and moist yet firm at the same time? Then you will want this little leaflet, "Making Glamorous Cakes," published by the Pillsbury Mills, Inc. It gives simple instructions on some fundamental cake techniques of stirring and pouring a cake, and some tricks of frosting a cake.

Many pictures help to make it even easier for you to learn the basic skills which will result in truly glamorous cakes. Send your request to Home Service Editor, Kansas Farmer, Topeka, Kan. Enclose 3c for postage.



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The faster you can make hay the better. And you'll have better hay when you use a NEW IDEA Rake and Tedder to make fluffy, uniform windrows that dry evenly, quickly, to preserve vitamin-rich leaves.

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1952 Experience Proves Again: Fat, Lightweight Cattle Bring Most Profit



THESE BIG SAPPY CALVES at the ranch of C. H. Coddling & Sons, Foraker, Okla., show the profitable effects of creep-feeding.

As in previous years, surveys indicate that handy-weight 700- to 800-lb. slaughter cattle produce the best return for the time and feed cost required to produce them. A Kansas State College study has shown that one of the most profitable systems is to creep-feed the calves and fatten them to this weight. Calves fed this way give you all these advantages:

MORE POUNDS TO SELL. Creep-fed calves usually weigh 100 to 150 lbs. more at weaning than non-creep-fed calves. Experiment Stations have proved it as well as hundreds of cattle-men.

HIGHER PRICES PER CWT. In 1952, creep-fed calves brought \$2 to \$4 more per cwt. than non-creep-fed calves. Studies at Kansas State College from 1922 to 1941 showed that creep-fed calves, fattened after weaning and marketed at about 800 lbs., returned \$18.80 more net profit per head than stocker and feeder calves. During years of declining cattle prices, the difference was even greater.

THREE-WAY CALVES. (1) Creep-feeding gives you calves that are fat enough to kill at weaning; (2) fat enough that with 90 days in the feed lot you can have 800-lb. choice killing cattle; (3) husky enough to be wintered and grassed to produce big heavy yearlings. Three competitive buyers!

COWS IN BETTER CONDITION. Experiment Station tests show that cows nursing creep-fed calves are 35 to 40 lbs. heavier at weaning. When pastures are poor, the difference is greater and cows are stronger for starting the winter.

Management Key to Success

WHICH CALVES SHOULD BE CREEP-FED. Fall calves or early spring calves are most profitable when creep-fed. Cows nursing fall calves must be well fed to milk heavily.



LET YOUR GOOCH'S BEST DEALER help you with your cattle-feeding problems. Call him today.

WHEN TO CREEP-FEED. (1) Creep-feed all calves from the time they are born, for best marketable finish at earliest possible time. (2) Creep-feed to maintain gains when grass turns dry and tough—to produce uniformity, eliminate shrink at weaning, and get them started easier in the feed lot. (3) Creep-feed to give added uniform growth and development to purebred bulls and heifers.

HOW MUCH TO CREEP-FEED. Self feed. Calves will adjust their intake, usually dependent on grass conditions.

WHERE TO LOCATE FEEDERS. Locate feeders near water, shade, or other "loafing places." Salt the cows near the feeders.

WHY FEEDERS SHOULD BE CHECKED. Never allow the feeder to become empty! Gains are dependent on feed intake. Keep feed fresh!

WHICH FEED TO USE. Nutritional scientists know what calves need for fast, economical gains. Gooch uses that information, makes sure that calves get what they're supposed to eat and that they keep on eating (automatic balance with milk and grass—they stay on feed). In addition to blended proteins, carbohydrates, Vitamins A & D, regular minerals and trace minerals, Gooch's Best Creep "Goochies" is the only creep feed that contains GBA-50 (Gooch's Bacteria Activator—stimulates rumen roughage-digesting bacteria) and Gooch-developed "Sweet-meal," a special high sugar dehydrated sorghum cane to give extra palatability. With Creep Goochies and good management, your calves should make average daily gains of 2½ lbs.—weigh 600 lbs. or more at weaning.

MANAGEMENT AFTER WEANING.

If the fat creep-fed calves are not sold as fat slaughter calves, they can be full-fed or wintered. In order to produce the profitable 700- to 800-lb. slaughter cattle so much in demand, a 500- to 600-lb. creep-fed calf requires only about 90 to 100 days of full feeding. For the producer with little or no grain, Gooch's Best "Oprema" (complete grain and supplement ration) does the job efficiently and fast. Gooch's Best 22% Cattle Fattener or 32% Feed-Lot Supplement balances the home-raised grain and roughage.

LOW COST CREEP FEEDER. You can have a portable 30-calf creep delivered to your ranch for only \$79.19—from Gooch. 2 men can erect it in less than 1½ hours. Creep order must be accompanied by an order for a minimum of 5 tons of Gooch's BEST Creep "Goochies." Limit of 3 creeps per order. Write for details now!

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Thoughts TO LIVE BY

"Short Cuts"

JUDAS WAS a sophisticated man from the city. His business acumen and winsome personality won him the office of treasurer of the early Christian fellowship.

What caused his downfall? Some students have placed the blame upon his impatience for power. When Jesus did not establish the Kingdom according to the time table in Judas' mind, Judas decided to force the issue. By betraying Him, Judas thought Jesus would be in a position where he would be forced to act.

What a wonderful thing it would be if the Kingdom of God were established! How good it would be if Christ would take His great power and reign! Then what was wrong with Judas' action? He took a short cut.

Most of the mistakes in life can be ascribed to short cuts. Prejudice is a short cut to superiority. Stealing is a short cut to security. Immorality is a short cut to love. In every case, the objective is worthy. Unfortunately, erroneous means never bring us to the right end. Criminals often justify their conduct on the basis of their good intentions. But short cuts negate the best inten-

tions. God's way is the right way.

In "Pilgrim's Progress," Christian discovered that the path in Bypath Meadow led, not to the Celestial City, but to a pit and a dungeon in Doubting Castle. Short cuts always betray the people who take them. The road we take is more important than the goal we choose.

Jesus said, "I am the way." Too often he has been taken for the goal. Christianity has been considered an idealistic objective rather than a realistic way of life. The road to sainthood is prescribed. If we choose the right way, we don't need to worry about the destination.

Lent is a period of self-examination and self-discipline when we think again about the 40 days our Master spent in the wilderness wrestling with temptation. Jesus resolutely rejected short cuts to physical satisfaction, fame, and power. He chose a hard way, but it took him to his desired destination.

It was out of that period of self-discipline in the wilderness Jesus emerged "in the power of the Spirit." Lent can be a similar blessing to every man even in our generation.

—Larry Schwarz

Lamb Feeding Tests at Garden City Show Feed Costs for Gains

LAMB FED on what appeared to be poor sorghum stubble made excellent gains at much cheaper costs than those fed in the feed lot, during experimental lamb-fattening tests this year at the Garden City Branch Experiment Station.

Lambs fed on the stubble got alfalfa hay at a rate of .64 pound a day, plus salt. Pasture period was for 92 days, after which lambs were finished out in the feed lot on same standard ration given lambs in the feed lot the full period.

Lambs that started out on stubble gained 44.6 pounds on the average for entire feeding period. Cost per hundredweight of gain was \$11.34 and final cost per hundredweight for the lambs was \$18.24. For comparable lambs in the feed lot the entire period, feed cost was \$18.70 a hundredweight and final cost was \$21.21.

In a comparison of whole milo, ground milo and steam-rolled milo in lamb-fattening rations, slightly larger and cheaper gains were made by lambs on steam-rolled milo. The difference, however, was not significant.

A comparison of various roughages showed alfalfa fed either as the sole roughage or as a part of it in lamb-fattening rations speeded up gains but also increased costs. Silage also increased gains when replacing a large portion of the stover, but at current prices, gains were more expensive in the silage-fed group.

Addition of a protein supplement to a ration including one-half alfalfa and

one-half sorghum stover increased rate of gains slightly, but also increased costs of gain slightly.

One lot of lambs receiving Aurofac 2A plus a standard ration of milo grain, Axtell stover, protein, limestone and salt gained slightly more at a little less cost than a lot given the standard ration alone. The difference was not significant.

Lambs given a standard ration but deprived of salt made the poorest gains and at greatest cost of any lots in the tests.

Lambs getting one or 2 hormone implants either with or without vaccination against enterotoxemia made larger gains mainly due to increased feed consumption, which made costs of gain about the same. This result differs from those reported by other experiment stations, which state hormones appear to induce better feed utilization. Most experiment stations also report that hormones increase growthiness which, in turn, produces poorer carcasses.

As last year, lambs vaccinated for overeating gained a little more than those unvaccinated.

Whiteface fine wool lambs from New Mexico were used in this year's tests. They were quite uniform in type and quality and after a short preliminary period in dry lot, they were started on the tests weighing about 67 pounds.

Standard ration used in the tests was ground sorghum stover, milo grain, soybean pellets, ground limestone and salt.

EVERY 40 SECONDS—A FARM DOWN THE RIVER!

Every 40 seconds one can watch 80 acres of land go down the Mississippi river! That means every 40 seconds "somebody's" farm is going down the river. We have the duty of keeping the great heritage of soil for our children. We can't let flood or rain or carelessness destroy soil because it takes Mother Nature 100 years to put back an inch of topsoil destroyed!

They say there are about 36 inches of topsoil that separate the human race from total oblivion.



Paul Weaver, Princeton, Mo., representing the Mercer Co. Lions Club, placed third in the KCMO contest with a yield of 150.1 bushels per acre. Mr. Weaver was also Reserve Champion of the 1952 P. A. G. Yield Contest. His Genuine Pfister yellow corn was the highest yielding yellow corn among all official winners of the KCMO Contest!

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

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



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Kansas State Champion, Washington Co., Otto Neumann, Hanover, Kans., Yield, 131.78 bushels of Genuine Pfister Hybrids per acre.



North Central Kansas Reserve Champion, George F. Mueller, Washington Co., Yield, 129.3 bushels of Genuine Pfister Hybrids per acre.



Eastern Kansas Champion, K. D. Kerston, Bethel, Kans., Wyandotte Co., Yield, 110.2 bushels of Genuine Pfister Hybrids per acre.



Eastern Kansas Reserve Champion, Roy Kittredge, Robinson, Kans., Brown Co., Yield, 103.44 bushels of Genuine Pfister Hybrids per acre.



Southern Kansas Champion, Richard L. Googins, Humboldt, Kans., Allen Co., Yield, 86.7 bushels of Genuine Pfister Hybrids per acre.

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No. 9 in series of articles
on how to grow house plants

How Fall Bulbs Can Be Grown in Pots

By FRANK PAYNE

I LIKE TO WALK along a city street and look into store windows. "Window shopping" suits me fine. So I never pass a florist's window without looking for spring flowers in winter. What a thrill to see large pots of tulips, hyacinths or narcissus posing in show windows with the air of beauty queens!

You can grow these beautiful pots of flowers in your home with the aid of a basement or outdoor cave or cellar. But you must start the job early in fall months. You can pot any of these flowers early in October, or as soon as bulbs are offered for sale at your seed store. Be sure to buy the largest-size bulbs as they force easiest.

Tulips: Some varieties of tulips force more rapidly into bloom than others. But never try to rush any variety. No amateur should attempt a flowering date before February 1, and then, only with early-flowering varieties. Best imported Holland-grown bulbs are the ones to buy; they seem to have more pep and vitality. Top growth is not so important, it is root growth you want first. Top growth comes on automatically almost with no thought or care, if you allow plants to get well-established roots first.

Pot bulbs in 6-inch pots, 3 or 4 bulbs to the pot. Bulbs should be planted in pot with tops of bulbs just even with the soil. The soil should be dampened, then put in outdoor cave or cellar where it is cool and dark. If no cellar, pots can be buried in the ground. Do not be afraid of them freezing.

Keep in the Dark

Leave in cave or cellar 10 to 12 weeks. Then bring into house and water, but still keep in dark, cool place. As tops appear you can bring plants into the light, but do not place in full sunlight. Keep soil moist but not soggy wet. Later you can bring into full sunshine but turn pots every other day to keep them growing upright in pot. Your blooms soon open and you are well paid if you just didn't crowd them too soon.

The entire pot of earth and bulbs can be set outdoors when thru blooming and in 2 or 3 years will have gotten their strength back enough to bloom nicely for outdoor flowers.

Narcissus: You probably call them Jonquils or Daffodils, but Narcissus is the correct name. If you like yellow flowers, you will love these. They are forced almost the same as tulips, except soil should be on the acid side. You can use peat moss in soil to take care of their acid needs. Use plenty of well-rotted manure in bottom mixed with earth so roots can feed on it when they need plant food. Don't bring them into the house until February 1. You can then expect blooms 4 to 5 weeks later.

Hyacinths: For pot culture buy only the largest size bulbs. They are easy to force and respond to a rich soil. Pot a single bulb in 3- or 4-inch pots. They should not be brought into house until flower buds are showing nicely, and even then must be kept in a dark, cool place for at least 2 more weeks. Then set in direct sunlight with about 70-degree temperature and that will bring along the blooms rapidly. What a houseful of sweet perfume you will have! The white ones are sweetest in scent, but all have very fragrant odor and are very colorful.

Insect Control: I don't like bugs and

insects, especially bugs that bother house plants.

You may wonder how bugs get into your home and on your house plants. They usually come in on the plants or may come in on a new plant just received from a greenhouse, a slip from your neighbor's plant, or you may have brought them into your home when you dug up a plant in the flowerbed and potted it.

The bugs may have been so tiny, or even just eggs on the underside of leaves, you didn't see them, but they were there. They hatched out and now you just have gobs of them and they were killing your pet plants even before you noticed them. Following are the kinds most troublesome and frequently found doing most damage to house plants:

Mealy bugs, scale insects, aphids or plant lice, worms, red spiders—many of these can be controlled by spraying plants with cold water under pressure. Be sure to hold plant upside down to get water pressure on underside of leaves as many pests hide out there. For scale insects, also mealy bugs, spray plants first with cold water. Then a thick lather of soap and water can be sprayed on the plant. Let this lather stay on plants 15 to 20 minutes, then wash off with lukewarm water. Pick off with a needle any scale or bugs that may still remain. When watering with soapy water, do not get it in pot on the soil. Hold plants sideways to keep soapy water out of pot. Now remember I said "soapy water" made with soap. Do not use the new-type chemical detergents.

Aphids or plant lice are sucking insects that appear in clusters. Nicotine sulfate from your seed or drug store, sold under name of Black Leaf 40 and used according to directions, will fix them. It also helps control mealy bugs.

Worms in soil do considerable damage to plants. Can be controlled by a saturated solution of lime water poured onto soil in pot. One time usually gets rid of worms. But on bugs, sometimes one must spray several times to get rid of a newly-hatched crop that were in egg stage and hatched out after you sprayed them.

Postscript: Well, this is the end of this series on house plants. I hope I have been of some help to you. Please remember millions of house plants are being grown nicely this very minute. Some folks are just doing fine with certain ones, but may have had failures with others. Do not blame the plants. They will always do their part if you will do yours.

It's all a matter of learning how. If you have bad luck, try, try again. Then success comes and you are well repaid.

Editor's Note: If you have enjoyed this series of articles by Frank Payne, please drop the editor a note. It will please Mr. Payne. Also, tell us what you would like to read about flowers in future issues of Kansas Farmer.—R. H. G.

Merge Offices of FHA, SCS, PMA

County offices of the Soil Conservation Service, Production and Marketing Administration and Farmers Home Administration are being merged. By March 1, 75 of the 105 counties of the states reported this change.

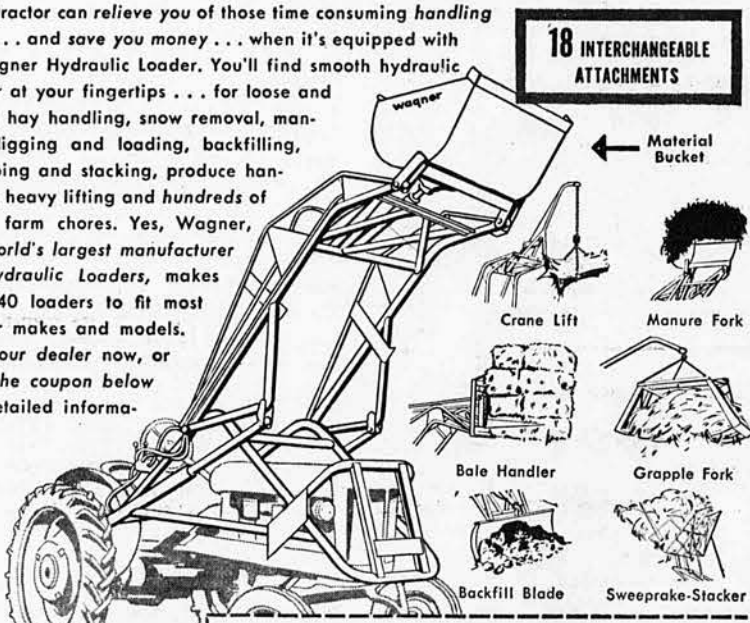
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HOW'S YOUR FARM I. Q.?

1. Texas boasts world's largest ranch. Where is second largest?
2. Where did Rambouillet sheep originate?
3. How did Poland-China swine get their name?
4. Where did Chester-White swine originate?
5. Where did Buff Orpington poultry originate?

(Answers will be found on page 28.)

As a short cut to herd improvement and to the more profitable production of market animals

The "Gain-Test" is proving out

Bull calves that can make fast, low-cost gains can pass that ability on to their calves! Boars that weigh heavier at weaning time sire faster-gaining pigs. Fast-gaining ram lambs can get you a better lamb crop! These findings from repeated "gain-tests" conducted by the U.S.D.A. and state agricultural colleges are establishing a new, short-cut method to herd improvement.

Here's what gain-tests with bulls show: 1) Bull calves that make good gains produce calves that do well on the range and in the feed lot. 2) Poor doers produce slow gainers. 3) The ability of the bull to gain—good or poor—is passed on to a very high percentage of his calves. And a director of this nationwide research states: "We have summarized results from experiments in 39 states. We estimate that calves from a good, gain-tested bull are worth an average of \$45 more per head to the breeding herd. Suppose a bull produces 40 such calves a year. He would be worth an extra \$1,800."

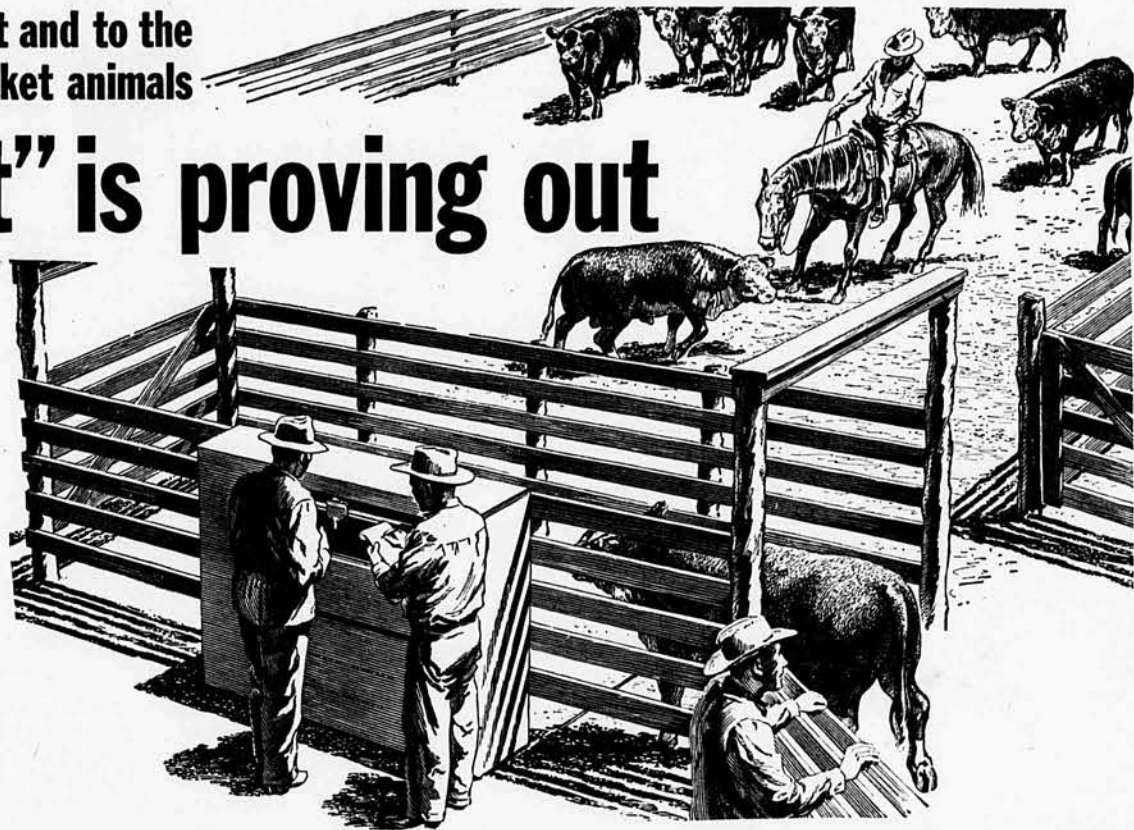
Gain-tests are conducted on a practical basis. Owners of pure-bred and commercial herds cooperate with state experiment stations. Bull calves are individually fed the same ration. Records of gains and feed costs are kept. There is little variation between breeds in gaining ability. But there is marked difference within breeds . . . and from the same herd. Some bulls gain up to 3½ lbs. per day, others less than 2 lbs. Similar tests are made with calves sired by these bulls. Their ability to gain follows closely the record of their sires.

Experienced stockmen with an "expert eye" can and do select, on type and conformation, profitable animals for breeding and feeding purposes. But "gain-test" records can be a valuable help . . . Recently an expert "eye-selected" 20 feeder steers. They were put in a feeding test with similar steers from gain-tested bulls. The eye-picked steers gained 2.15 lbs. a day, at a cost of \$20.30 per cwt. The "gain-tested" steers gained 2.35 lbs.; at \$18.67 cost—more weight at \$1.63 less per cwt.

Complete information on how you can "gain-test" sires, and results of what others have done, are available. Just write to your State Agricultural College, Animal Husbandry Department.

"Business and farm leadership depend in the long run on our continuing ability to convince the average citizen that what is good for business and agriculture is good for him."

John S. Coleman, President
Burroughs Adding Machine Company



Same Goal for Both

When it comes right down to cases, you livestock producers and we meat packers both have the same goal—namely to make a decent living by supplying the American people with good meat. In doing that, you and we operate like the various departments of any large business organization.

You are the Production Department. With your work, land and equipment and "know-how" you provide the raw material, that is, the meat animals.

After that, our job begins as the Manufacturing Department. We "process" your livestock into saleable products—meat, in hundreds of cuts, grades and kinds. And then we distribute that meat to 300,000 retail stores all over America. In our part of the job, as a wholesaler, we also act as the Sales, Merchandising and Shipping Departments.

The point I am making is that your job and our job is essential. We couldn't get along without you. Without the services of a nationwide meat packer it would be almost impossible for you to bridge the 1,000-mile gap between your livestock on the hoof and meat on the table. But we are equipped to manufacture, sell and distribute economically on a nationwide basis. To do our job last year Swift paid out 23 1/10¢ of each average sales dollar for manufacturing, merchandising, selling and distribution. Farmers and ranchers received 76 1/10¢ for "raw materials." What was left as earnings for performing our services was 8/10 of one cent.

Tom Glaze
Agricultural Research Department



Harvesting Prairie Hay for Greatest Value

by Lawrence B. Embry
South Dakota State College, College Station

It makes a lot of difference when prairie hay is cut. Early-cut hay (that cut about early-dough stage and before small grain harvest) has a lot more value than late-cut hay (that cut when the grass plants were mature and weathered). Medium-cut hay (seeds ripe) was found to have a value between the two extremes.

Protein analysis over a four-year period showed the early-cut hay contained an average of 7.43%; medium-cut hay, 6.11%; and late-cut hay, 4.94%. Digestibility of the protein also decreased with maturity.

In winter feeding trials with calves, the three cuttings of hay were fed with soybean meal pellets in amounts to give about 10% total protein in the ration. The amount of soybean meal pellets per calf daily to give this amount of protein was: early, 1.1 pounds; medium, 1.6 pounds; and late, 2.0 pounds.

While approximately equal gains were obtained, there was a large difference in the amount of soybean meal pellets required. The amount of supplement required per ton of the various hays, based on feed requirement per unit of gain, was: early, 177 pounds; medium, 253 pounds; and late, 313 pounds. With soybean meal at 5 cents per pound, the early-cut hay was worth \$3.80 more per ton than the medium, and \$6.80 more than the late.

With late-cut hay, a greater amount of protein supplement should be fed to get greatest value from the roughage.

FACTS, TOO, MUST BE TRACKED



To track down Reynard the Fox takes skill and experience. He knows the facts about the country in which he operates; he has to, to "stay in business" very long.

In your business and ours, facts must be tracked down. You need facts on which to base your decisions on where and when to market your livestock. You get the facts from radio and newspaper market reports, and from other reliable sources. You weigh the facts and then use your best judgment. Like you, we try to track down similar facts concerning the supply of livestock for slaughter at the markets each day—and the wholesale prices being paid for meat and by-products. It is then up to us, too, to also use our best judgment in bidding on your livestock in competition with 18,000 meat packers and other commercial slaughterers. In the end, it is a fact the prices producers receive for their livestock is governed by what the meat packers can get for the meat and by-products.

Swift & Company

UNION STOCK YARDS, CHICAGO 9, ILLINOIS
Nutrition is our business—and yours

OUR CITY COUSIN



City Cousin, here's the rule: Always keep milk clean and cool—or you'll be worse than an April Fool!

Martha Logan's Recipe for FRUITED PORK CHOPS

Yield: 4 servings

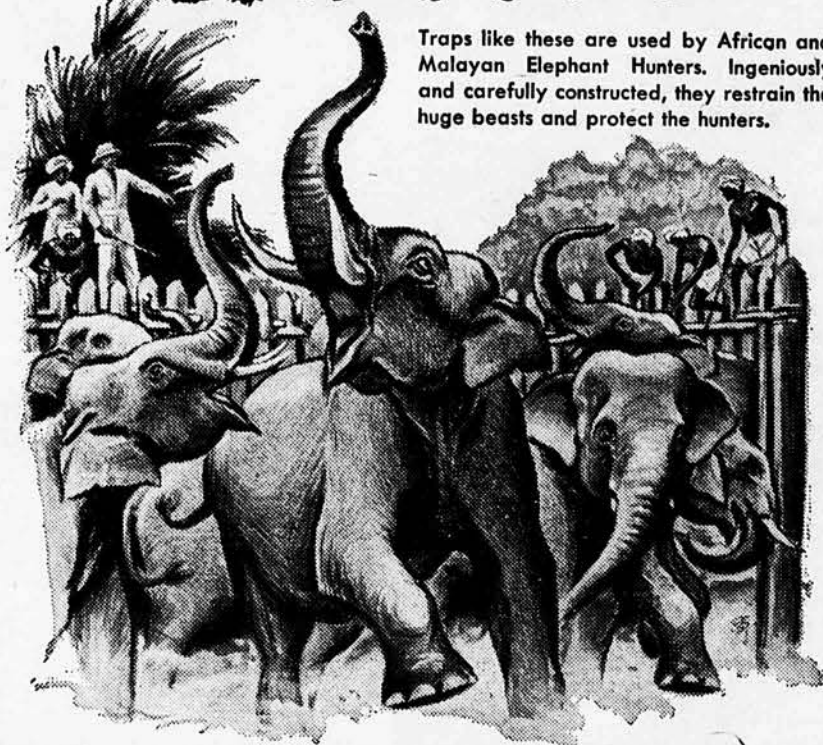
4 pork chops, ½ inch thick	*¼ teaspoon curry powder
1 cup dried prunes	2 tablespoons sugar
1 cup dried apricots	1 teaspoon salt
1 cup orange juice	

Brown chops on both sides in a heavy skillet. Add prunes and apricots. Combine juice, curry powder, sugar and salt. Pour over chops. Cover. Cook over low heat for about 45 minutes.

These may be baked in a moderate oven (350°). Keep enough juice or water on the chops to prevent burning, but when finished there should be just enough sauce to coat the fruit.

*Optional

TRAPPED



Traps like these are used by African and Malayan Elephant Hunters. Ingeniously and carefully constructed, they restrain the huge beasts and protect the hunters.

AC Aluvac Is The Best Trap For Engine Oil Dirt

An elephant trap has something in common with AC's Aluvac Filter Element—both are doing a big job!

- ALUVAC keeps oil clean . . . removes particles as small as 1/100,000 of an inch.
- ALUVAC has greater filtering area . . . it's ten times greater than ordinary elements.
- ALUVAC has no harmful chemicals . . . won't remove detergents in heavy-duty oils.
- ALUVAC is durable . . . resists the action of harmful acids, gasoline or water.

Protect your car, truck or tractor engine—enjoy smoother, more economical performance by getting a new AC Aluvac Filter Element the next time you change oil—money can't buy better protection for your engine.



Protecting More New Car Engines Than Any Other Brand

AC SPARK PLUG DIVISION  GENERAL MOTORS CORPORATION

UNITED STATES SAVINGS BONDS
are still **THE BEST BUY**

GET ALL THE YIELD From Legume Fields

INOCULATE WITH Guaranteed NITRAGIN

Clovers, alfalfa and soybeans which have been inoculated with NITRAGIN get off to a faster start . . . they have more vigor to fight weeds, drought and winterkill . . . they help you get all the yield from every legume field. Use NITRAGIN for best results.

THE NITRAGIN CO., Inc. 3111 W. Custer Ave., Milwaukee 9, Wis.



Dwight Hull SAYS . . .

DAIRY FARMERS have a real challenge before them. One that must be met now if we are to maintain a satisfactory market for our product. Actually it also is a challenge for processors, manufacturers and others who make up this great dairy industry. It is one of the Nation's greatest industries which amounts to something like 20 billion dollars a year. Welfare of any industry this size has a great deal of effect on our entire national economy, therefore is of vital interest as a national problem.

It is a national problem and we should be grateful our national leaders, including Secretary of Agriculture Ezra Benson, are not only striving to solve it but are setting the pace for the rest of us to follow. Soon after the Secretary took office, he asked 13 men, representing various phases of the dairy industry, to meet with him as a committee to help formulate a sound dairy program. Since this committee met, the Secretary has discussed the program with leaders of general farm organizations and congressional leaders. He considered the matter of sufficient importance to submit a tentative program to President Eisenhower and his cabinet.

Got 90 Per Cent Parity

People of the dairy industry asked and got assurance milk and butterfat, sold by farmers would be supported at 90 per cent of parity for another year, beginning April 1. The dairy industry agreed to start immediately formulating plans to reduce government support purchases to a minimum. The challenge is squarely up to the dairy industry to demonstrate its ability to step up sales of its products to bring about a better balance between supply and consumer demand.

To use Secretary Benson's words, "Dairy farmers and dairy industry leadership have a major challenge. We believe they will put the dairy business on a more solid basis with a minimum dependence on price support. They have asked for time, we have agreed. Now, we will all pitch in to get the job done."

Here I would like to quote from a speech delivered by the assistant secretary of agriculture, Richard D. Aplin, on March 5, 1953, at Cincinnati, Ohio: "Everyone in the dairy industry can join wholeheartedly in the campaign to increase consumption of milk and dairy products. You don't have to be a member of a committee or a conference in order to do it. You can start off by drinking more milk yourself."

"There are about 2 million farms in this country from which milk is sold. How much difference do you think it would make if each person living on these farms drank one additional glass of milk each day?"

"Let's do a little arithmetic. It is estimated about 10 million people live on milk-producing farms. An extra

glass of milk for this many people each day would take off the market 5 million pounds of milk a day, 150 million pounds a month, and 1.8 billion pounds a year. That much extra milk consumed on dairy farms last year would have kept off the market enough milk to produce about 85 million pounds of butter. Remember, total purchases of butter by the Government so far in this marketing year, which are worrying us so much, amount to 91 million pounds. Thus, we can see an extra glass of milk a day, to people on milk-producing farms alone, would put us well on the road toward balancing supplies on the market with current demand.

"Of course, main effort will have to be made in increasing sales of milk and dairy products to the people in this country (about 150 million) who do not live on dairy farms. These folks must be told the story of milk much better and more effectively than we have ever told it to them. Dairy farmers must support, more strongly than they have in the past, programs which promise to help sell milk and all dairy products. The problem of finding ways and means to balance supplies with commercial sales rests on the industry. If an approximate balance cannot be reached at current price levels, then the support price level in future years will have to be reviewed in the light of that fact."

Important Part to Play

It is my opinion if the challenge is to be met, dairy farmers must realize they have the important part to play. One little voice added to many will be loud enough to demand that the consuming public hear and hear often the story of the most nutritious and economical food in the human diet.

As one example of how sales of dairy products can be increased by a sales program, let me cite one example: The Wisconsin Department of Agriculture in co-operation with the A & P Store conducted a 2-weeks sale campaign to sell Wisconsin cheese in Detroit. Sales jumped from 12,000 pounds to 53,000 pounds, or an increase of 20 tons of cheese in 2 weeks.

It seems to me we can be masters of our own destiny. Let's accept the challenge!

Like Colt Project

Kansas 4-H members are showing great interest in a new project—light horses, sponsored by Kansas Saddle Horse Association. In 1952, about 500 applications for mares were received, first time the project was offered.

The association supplies bred registered mares to club members to develop 4-H colt projects. Colts belong to the member, and there is a plan where the 4-H'er may become owner of the mare, too. The Kansas State 4-H Office has full details of this new project.

HOW STRONG IS YOUR HEART?

By CHARLES H. LERRIGO, M. D.

It is a wonderful thing for human beings that the heart is a good stout muscle. It is composed almost entirely of muscular tissue and, unless attacked by disease or abused by the owner, it goes thru life as a goodly heritage to insure old age. Perhaps you think of your heart as a big organ. As a matter of fact, you might well compare it with the size of your fist. And altho one hears so much of heart disease, the heart itself is so strong in its resistance, and the disease to which it yields whether called myocarditis, endocarditis or just plain heart disease, is seldom beyond repair.

Perhaps you will be interested in my special letter, "Hints About the Heart." The information it gives you may keep you out of danger. This will be sent to any subscriber sending a request with an envelope addressed to himself and bearing a 3-cent stamp, to Dr. C. H. Lerrigo, Kansas Farmer, Topeka, Kansas. No copies can be sent unless the stamped envelope is received.

FIRST to give you POWER STEERING!

Now with **POWERflow Steering** and **POWERflow Drive**

NEW



Self-Propelled

POWERflow **HARVESTOR**

Here's the Harvester built to give you lowest cost harvesting per bushel, per acre, per dollar invested...with less work

Now, big-capacity harvesting is an easier job than ever before—with the MM Self-Propelled **POWERflow** HARVESTOR equipped with new **POWERflow** Power Steering. MM Power Steering means less work, easier steering, better performance. And, the new Self-Propelled Harvester gives you Many More new advantages... adds **POWERflow** Steering to the long list of Minneapolis-Moline harvesting "firsts."

It was MM that built the first big-capacity, light-weight combine weighing nearly a ton less than previous combines of its size... and it's MM that leads the field with Power Steering on the pace-setting, self-propelled **POWERflow** Harvester. Add **POWERflow** Steering to such outstanding **POWERflow** advantages as the **VARIABLE-SPEED HYDRAULIC DRIVE** that permits control of ground speed from 0 to maximum mph without changing speeds of sickle, pickup or cylinder... **FULL-WIDTH** cylinder with 8 rasp bars and 4-section oscillating straw racks for really *big* capacity... 45-bushel grain tank and Power Auger unloader that empties bin in about a minute, on the go or standing.

Here's how MM Hydraulics reduce your work...cut your harvesting costs

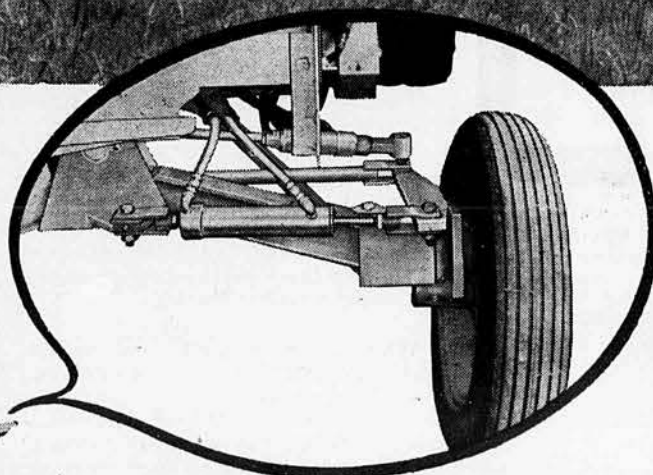
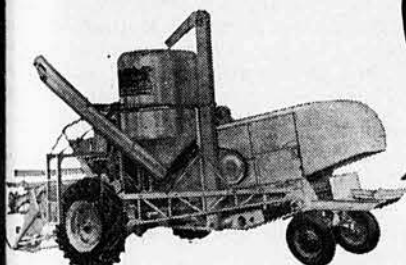
Model S Harvestors come to you with exclusive **POWERflow** drive... the hydraulic drive system that lets you stop without declutching... change ground speed without changing speed of cutting, threshing, or separating mechanisms. Hydraulic **UNI-MATIC** power regulates cutting height from 0 to 41 inches... with finger-tip control from the operator's seat. Now, MM is first to take the next forward step with **POWER STEERING**!

This is how MM Power Steering works

When you see the S Harvester at your MM dealer's, examine the double-acting **POWERflow** Steering mechanism. Mounted on rear drive wheels, **POWERflow** Steering takes its power from the ample hydraulic pump. Steering wheel activates double-acting hydraulic jacks. System has a special reserve valve for extra-safe operation under all conditions.



MM...FIRST with the BIG CAPACITY, LIGHT-WEIGHT COMBINE... and still out in front!



What MM Powerflow Steering does for you...

You have to get into the operator's seat to *believe* that you could handle this big-capacity, self-propelled Harvester with such steering ease. No more wrestling out of ruts, just turn the wheel. No more dead-tired days. **POWERflow** Steering makes your work far easier... enables you to do more. And, **POWERflow** Steering gives quicker steering response, too... really takes the work out of running this MM Harvester.

SEE YOUR MM DEALER. HE, ALONE, CAN SHOW YOU THE SELF-PROPELLED 'S' HARVESTOR WITH POWERflow STEERING and THESE BIG ADVANTAGES!

NEW

NEW

NEW

PLUS

NEW

NEW

NEW

PLUS

NEW

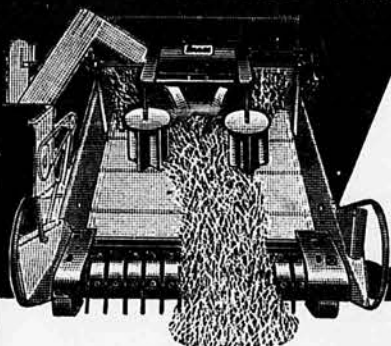
NEW

PLUS

MINNEAPOLIS-MOLINE

MINNEAPOLIS 1, MINNESOTA

FOR SUCCESSFUL WINDROW HARVESTING



USE THE
Innes
WINDROW
PICK-UP

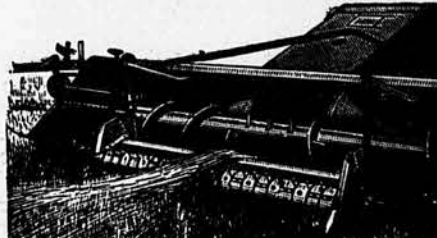
No other pick-up gets results like an Innes!

Its strong, revolving fingers lift the windrow carefully from underneath, like a huge pitchfork. They gently deposit the entire windrow, intact and unshelled, on the combine canvas. Then, on the downstroke, these patented piston fingers automatically strip themselves of entanglements. They draw completely back within the rotor, so that weeds and vines can neither wrap and stop the mechanism, nor get inside to clog the drive.

The Innes Pick-Up is so easy to handle that one man can attach it in a few minutes, without even removing the sickle guards. Stiff and spring finger models fit most combines.

This is the pick-up that gets in the most of your crop with the least time and labor! It can pay for itself the first three hours you use it! FEEDER distributes windrows equally along entire length of wide cylinder combine. Travel $\frac{1}{3}$ faster, save up to 50% more grain and seed.

Floating Pick-up ADJUSTS TO UNEVEN GROUND

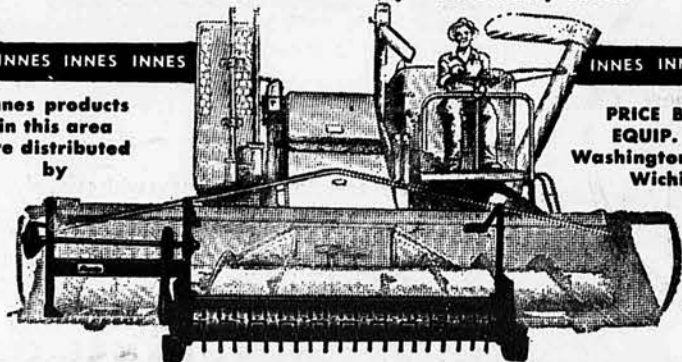


Automatically follows the contour of your field. "Floats out" hills and slopes so that you hardly need to adjust your platform at all. For self-propelled combines: custom fittings in stiff and spring finger models for Deere 55 & 65; Case M-2, K-2, S-P; Gleaner S-P; McC-D. 125 & 127; M-H 21A, 26, 27, 70, 80, 90; M-M S-P; Oliver 33; Cockshutt S-P.

The above products handle all windrowed crops with equal ease. Precision built of finest materials.

For further information see your dealer or write
Innes COMPANY, Bettendorf, Iowa

Innes products
in this area
are distributed
by



PRICE BROS.
EQUIP. CO.
Washington & Orme
Wichita

NEW M & W Live-POW'R P.T.O. FOR FARMALLS



**Eliminates need
for auxiliary
engines...**

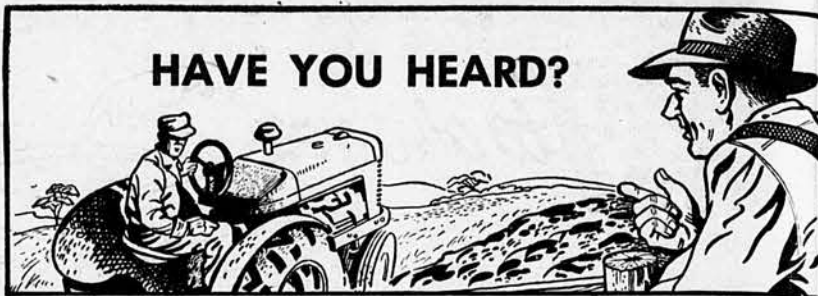
Now you can make your Farmall H or Super H, Farmall M or Super M do the work that auxiliary engines have done in the past. New M&W Live-POW'R keeps your P.T.O. driven equipment at constant operating speed regardless of tractor travel. It stops slugging-up of forage harvesters, combines, cornpickers, mowers, hay choppers and balers. The new unit provides a convenient hand clutch, plus a live hydraulic pump, plus a life belt pulley. M&W Live-POW'R is designed to handle twice the power your Farmall can produce. It's the only continuous power-take-off with this 2 to 1 safety factor. Four full-floating clutch plates give you smooth operation... no jerking at starts or slipping under load.

M&W Live-POW'R is compact... extends only one inch beyond original equipment. There's no interference with mounted equipment. For complete information write Dept. G 3.



M & W GEAR CO.
ANCHOR, ILLINOIS

HAVE YOU HEARD?

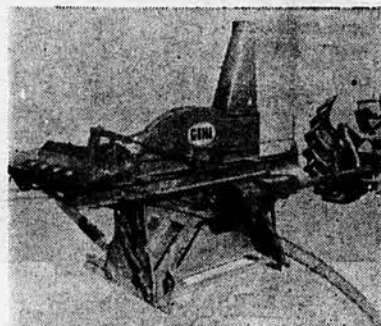


Notes on New Products and Folks Who Make Them

THREE NEW CORN planters—check-row, drill and hill-drop—have been added to Dearborn farm equipment line. Planters are designed for all kinds of row crops, have full lift-type implements designed to attach to Ford tractor. Hitch has been redesigned to obtain even planting in both rows and maintain even depth thru action of hydraulic mechanism.

Dearborn fold-over disc harrow is 2 in 1—tandem disc harrow or as a bush and bog harrow. Front gangs have 8 notched discs, 20 inches in diameter and spaced 9 inches apart. There are ten 18-inch discs on rear gangs, spaced at 7 $\frac{1}{4}$ inches.

Gehl Brothers Mfg. Co., West Bend, Wis., announce a new PTO drive for forage blower. It saves lining up belts, eliminates power loss and increases efficiency, says the company. PTO drive saves a tractor since tractor used to



bring wagon in from field can be used on the blower. Can be hooked up in a minute by use of a snap-on hitch. Drive shaft is 6 feet long and can be extended to 7 $\frac{1}{2}$ feet. Is covered by a safety shield supported by roller bearings.

Weedejector is an all-metal weeder which gets rid of weeds, roots and all. Place weeder directly over center of weed with jaws slightly opened. Press down on both handles, spread handles, grip weed firmly, pull up and out comes weed. No stooping. No soiling of hands. Length, 30 inches. Selective Shoppers, Dept. M-2, P. O. Box 2986, St. Louis 17, Mo.

Peebles' Pig Fare is a new sow's milk formula, especially for emergency feeding of baby pigs. Western Condensing Co., Appleton, Wis., nutritionists say its use will enable saving of orphan pigs and others formerly lost when sow's normal milk supply failed or was reduced. Heavier weaning weights are realized, too.

John Deere "40" Series farm tractors are new, replace Models "M" and "MT." Model "40" Standard and "40" Tricycle-



Type are general-purpose tractors. There's advanced-type 3-point hitch for new line of Deere Quik-Tatch implements. Both are equipped with load-and-depth control, which works thru the Touch-o-matic hydraulic system to provide more flexible operation of in-

tegral implements. There's improved daily work capacity and better performance in uneven ground conditions.

Aladdin Sharpener puts professional edge on scissors, hedge shears, pruning shears. Non-corrosive. No moving parts. Maryland Mail Order, Box 605 West Hyattsville, Md.

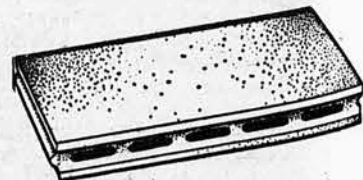
Greasemaster is a lubrication unit for farm machines—you can do "service station" lubrication in the field! Save time, money, and labor. Many like it for combine lubrication. Greasemaster is battery-operated—operates equally well on either a 6- or 12-volt battery. G & T Industries, Inc., 1428 Barwise Wichita, Kan.

Two and 4-row fertilizer attachment for tractor-mounted cultivators have been added to Ottawa Farm Chief line. Models are single drop per row distributors for fertilizer application along one side of the row. Two hoppers of 80-pound capacity each (for 2-row) and 160-pound capacity each (for 4-row) are low mounted for easy filling and to provide unobstructed vision from tractor seat. Ottawa Warner Corp., 2600 Walnut, Kansas City, Mo. They have attachments for rear-mount cultivators, too.

Folium is a new water-soluble fertilizer of Monsanto Chemical Co., St. Louis. It minimizes risk of leaf or grass burn. Is of 20-20-20 composition. Aids in absorption of nutrients by plant leaves. Good for garden, flowers, shrubs, trees.

Care-E-All is a complete, compact travel kit of items for Mother in taking care of baby, away from home or at home. It's useful, practical, attractive. There are 11 items. Livingston Co., 150 Amity Road, New Haven, Conn.

New Air-cell stave silo which is lined with a plastic coating instead of old type plaster coating is announced by Dodson Mfg. Co., Wichita, Kan. New



stave is one third thicker than old stave and is 3 $\frac{1}{2}$ times stronger. Plastic coating is acid-resistant and provides a more air-tight silo.

Tri-Pan is a new-type cooking utensil for home, camping trip, warming foods, vacationers. Uses only 1 burner, has 3 sections. Saves fuel, cooking space, pot washing. Made of finest cast aluminum. Emco Sales Corp., Riverside Station, Box 25, Dayton 5, O.

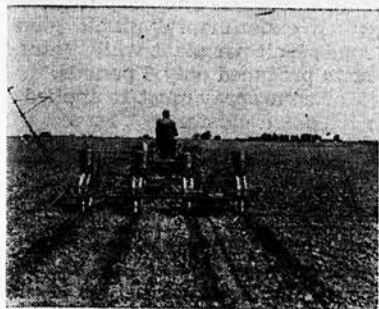
Magic Chef home heaters offer modern treatment, comfort, various sizes to fit all home areas, color combinations. There's choice of gas or oil heaters. There's the economical 30,000 BTU model up to giant 70,000-unit which can heat from 4 to 6 rooms comfortably. Magic Chef, Inc., 1641 S. Kingshighway Blvd., St. Louis 10, Mo.

Buckeye Tube-type Infrared Brooder has Merco heat-ray tube which produces infrared heat only, no light. Tube is backed by a reflector designed to distribute uniform, even heat over a wide area without concentrated "hot spots." Operation is automatic. Re-

(Continued on Page 27)

quires no voltage control system, switches or dials. Buckeye Incubator Co., Springfield, O.

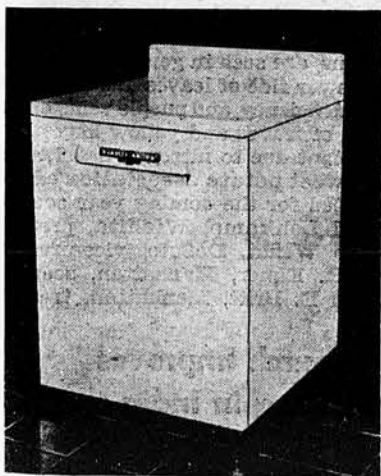
Two new 4-row planters (check row or drill) for use behind Case or other makes of tractors are available. Having ample flexibility for working over un-



even ground, this 4-row equipment assures accurate, uniform planting of large acreages of corn and other row crops, with a minimum of time, power, labor. Variable edge drop planting mechanism, large capacity seed boxes, variable row spacing. J. I. Case Co., Racine, Wis.

McCormick Farmall Super H tractor has 14 per cent extra power at drawbar and up to 26 per cent faster field speeds. Pulls a 3-bottom, regular moldboard plow in most soils or a 4-row cultivator. Double-disc brakes and hydraulic control of mounted and trailing equipment are among 21 major improvements.

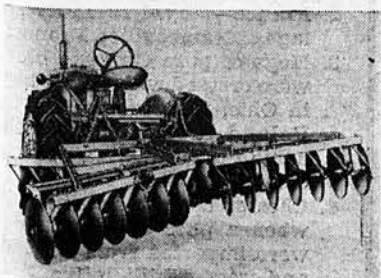
Imperial Table-Top is a cabinet-type gas water heater that fits into kitchen and workroom assemblies. Has all-porcelain top, 24 inches wide and 25 inches deep—makes convenient work



space. Both top and front panel "click" on and off to give access to controls. Heater is especially adaptable to basementless homes and modernizing projects. Handley-Brown Heater Co., Jackson, Mich.

Vit-A-Way, Inc., Ft. Worth, Tex., announces granting of a U. S. Patent on their special process used in making Mineral-Vitamin Livestock Fortifier. Result is a palatable, digestible, easily-assimilated quality product. Fortifier is a hi-potency vitamin-mineral product.

Allis-Chalmers "Greased for Life" Disc Harrow is now available in recently-announced disc harrow with Bal-Pak gang bearings. These bearings seal grease in for life, are protected by a closed compartment completely filled with heavy long-fiber grease forced in under pressure at fac-



tory. Disk harrow for CA and DW tractors is controlled with hydraulic lifting and lowering. Flexible angle-steel frame allows gangs to move up or down independently on uneven ground.



Makes Albers CHICK STARTER Your Best Buy This Spring!

● Albers feeders are assured of rapid growth, high livability, and economical feed conversion, because the quality of Albers Chick Starter is scientifically protected.

Five modern laboratories, staffed by skilled technicians, test both ingredients and formulated feeds. The sun, soil, and green-grass factors, as well as Vitamin B-12 and the anti-

biotic feed supplements, receive special attention.

The analyses of these laboratories assure you that each bag of Albers Chick Starter is tops in quality—fully capable of producing results equal to those achieved at the Albers Research Station.

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

**FREE
BOOKLET!**

ALBERS RESEARCH STATION
proving ground for all Albers Quality-Controlled Feeds

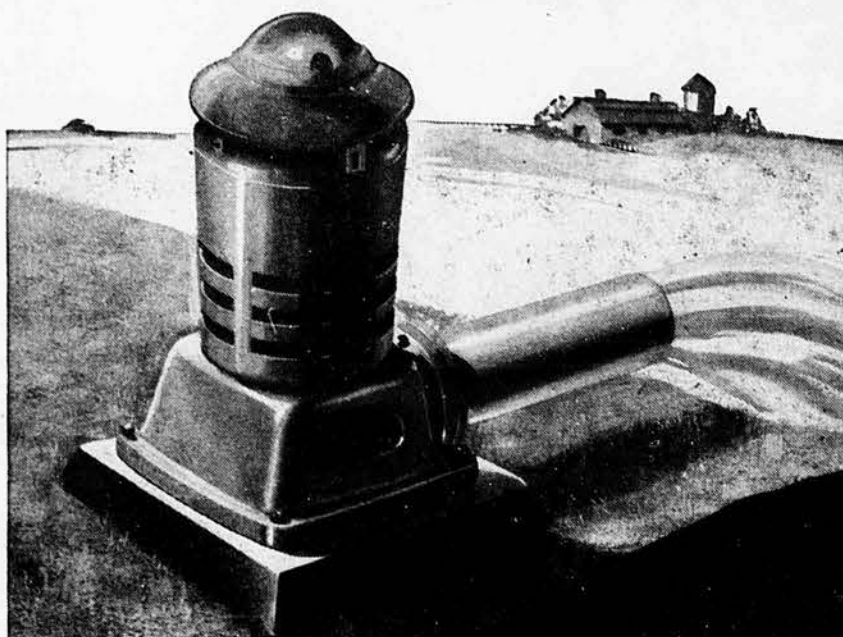


Coming up!

"Oceans of water"...

with FAIRBANKS-MORSE

the POMONA LINE



You can depend on "oceans of water" . . . from any depth . . . with Fairbanks-Morse Deep Well Turbine Pumps . . . the Pomona Line.

You're sure of an efficient, *dependable* pump because—you can adjust capacities easily *above* the surface . . . you have a new, modern semi-open impeller design . . . all steel parts subject to corrosion are protected by "Fairmortecting"—a new rust-repelling process.

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APRIL 1953



'MANURE BUCKET

Simple to mount and dismount—only 6 bolts! Clear vision! Mounts inside rear wheels for greater safety. Hydraulic finger tip control of attachments. 3000 pound lift. FITS all popular row crop tractors and converted wide fronts. FREE: Ask your dealer at once about one week's FREE trial of this "year around" heavy duty American Loader. 100 different uses! Save time and money.

AMERICAN IMPLEMENTS INC. • 2523 TAYLOR ST. • OMAHA, NEBR.

You Can Grow Better Sweet Potatoes And Tomatoes by Using Fertilizers

HATS ARE OFF to vegetable producers in the Kaw Valley for their amazing recovery after the 1951 devastating floods. Future for producers looks even brighter, too.

You're just likely to see sweet potatoes on restaurant menus up along with Irish potatoes. To merit this showing, Kansas growers hope to standardize uniformity of their product plus better marketing methods that may even include an egg case type container for consumers.

Dr. F. W. Smith, Kansas State College, explains fertility recommendations for sweet potatoes. They are higher than for any other crop, he said.

Potash is the greatest need of this crop, all thru the growing season and especially for later root development. Phosphorus, while not as greatly needed, is important in early root de-

veloping factor in crop yields, but using a hormone, more fertilizer can now be applied with resulting higher yields. Using a hormone and 150 pounds nitrogen on experimental plants gave 11 pounds fruit per plant while untreated plants produced only 8 pounds.

Hormone spray must be applied only to fruit bud cluster, not leaves. Using

A New Era

A new irrigation era is upon American agriculture. For tips on better irrigation, read "Irrigation Guide," printed by Union Pacific Railroad. For your free copy, write Farm and Home Service, Kansas Farmer, Topeka, Kan.

hormone alone without fertilizer will not increase yields.

Irrigation and closer spacing require more fertilizer treatment. Fertilizers are best applied at transplanting and then every 3 to 5 weeks or after hard rains. Fertilizing in bands 4 to 5 inches out from plant and 4 to 5 inches below soil level shortly after planting is best unless using as much as 500 to 1,000 pounds. If this amount is used, that in excess of 500 pounds should be broadcast to avoid toxic effect to plants.

As a starter solution to increase early production as well as total crop, he suggested 2 parts ammophos (11-48-0) and 1 part nitrate of potash dissolved in water at the rate of 5 pounds of the mixture to 100 gallons, ½-pint per plant applied at roots.

Hunger signs of the plants, he explains, are seen in general purple color of lower side of leaves due to phosphorus deficiency, and purple veins of lower side of leaves and yellow lower leaves of plant due to nitrogen deficiency.

Sweet potato association officers elected for the coming year are: Bernard Lohkamp, Wichita, president; Otto Wendt, DeSoto, vice-president; O. H. Elmer, Manhattan, secretary; John E. Britt, Manhattan, treasurer.

Research Improves Farming in India

Problems of agricultural research in India were discussed by Dr. Arthur T. Mosher, president of northern India's Allahabad Agricultural Institute, in Manhattan recently. An American missionary, Doctor Mosher, told how expanded research is helping improve agriculture in India. Better crops and animals are being produced by Allahabad, supported by 8 church denominations.

An Allahabad faculty member, David Sundaresan, is a graduate student at Kansas State College, doing work in cattle breeding. Cyril Paul, another faculty member at the institute, received his master's degree from Kansas State College last fall and is now in India.

Relates Kansas Research

Kansas research with the crop is related by Association Secretary O. H. Elmer. Oklahoma 46 was by far the high yielder in Kansas trials, he said. He stressed need for control of disease which is eating into crop profits and uniformity of product. Producers, he said, should carefully guard clean soil and select disease-free stock.

Doctor Elmer suggested such management practices as electric heating for hotbeds. Current cost is less than manure and one year of poor manure can be a severe loss to the producer.

Irrigation pays on the crop, but it must be continuous to avoid ridging from a second start of growth by the sweets. Harvesting and storage are most crucial times in management program, Doctor Elmer pointed out. Carelessness is costing producers a uniform product at the market. Washing before storage in wet years will avoid a lot of dry rot. Storage temperatures, he emphasized, should be 85 to 90 degrees first 5 days or so depending on curing season, with 53 to 57 degree storage and 80 degree humidity thereafter.

Tomato production research is explained by Prof. Elmo Davis, of Kansas State. Optimum temperatures for this crop: seed germination, 65 to 75 degrees; growing, 70 to 75; maximum for fruiting, 75 to 80 degrees. A hormone sold as "Sure Set," has been successful in assuring set of fruit at low temperatures. Excessive nitrogen has been a

Answers to Farm I. Q. Quiz

1. In Hawaii.
2. France—Royal farm at village of Rambouillet, France.
3. Hogs of pure Chinese blood were crossed with native hogs in Ohio, then crossed with a Poland breed. In 1872 the name Poland-China became official.
4. Chester county, Pa., in 1818, when a pair of white hogs were imported from England and crossed with native white hogs.
5. England—from Dorking and Cochon poultry breeds.

Your pasture can yield MORE MEAT and MILK PER ACRE

Scientists now know how to
unlock MORE of the feed value in grass

Good pasture supplies the best and most economical feed for cattle during the growing season. And for hogs, sheep and poultry it is an important means of reducing the cost of feeding. Each blade of grass—and each leaf and stalk of alfalfa, clover or other pasture is packed with rich nutrients waiting to be converted, by the animals themselves, into profitable meat, milk and eggs.

BUT—rich as pasture may be in crude protein and in certain minerals and vitamins—it is also relatively high in crude fiber. But it is only when your animals are able to utilize more of these elements, that you get maximum value from pasture.

Out of more than 30 years of nutritional research, MoorMan scientists have evolved a low-cost method of solving this problem—the addition to pasture or grasses of the proper combination of minerals. Hundreds of combinations of various base and trace minerals have been tested—until, today, MoorMan's are ready to recommend, without qualification, a balanced combination of mineral ingredients—asssembled with prescription-counter accuracy—to make your pasture yield more meat, milk and eggs per acre than ever before.

For example, here are two steps of a recent MoorMan experiment, directed at helping ruminants unlock and make more profitable use of the nutrients in pasture by increasing "bacterial activity" in the rumen. These "rumen bacteria," science has proved, break down roughage—convert it into digestible nutrients. And as the "bacterial" activity increases, the amount of nutrients extracted from grass rises.

FIRST—to a sample bottle of artificial rumen fluid, closely resembling that found in the paunch of cattle and sheep, 2 million "rumen bacteria" were added. In 48 hours the "bacteria" count increased to 274 million per cubic centimeter (a cubic centimeter is about 15 drops of liquid). This is considered normal bacterial growth in the rumen.

SECOND—to a similar sample bottle of artificial rumen fluid was added 2 million "rumen bacteria" plus proper amounts of MoorMan's Complete Minerals. Within 48 hours the bacteria count had increased to 462 million per cubic centimeter—an increase of 188 million, or 68.5% over normal. This tremendous increase in rumen bacteria, due to the addition of minerals, shows how they can help your animals break down more of the crude fiber in your pasture—thus producing more meat and milk from a given amount of pasture.

Easy to feed—most MoorMan Minerals come in block, powdered or granular form to fit your method of feeding—low in cost—less than a cent a day for cattle—less than 1/3 cent a day for hogs is all MoorMan's Complete Minerals cost you. And, a specially developed MoorMan Mineral is available for every type of livestock. Your MoorMan Man will help you harvest more meat, milk and eggs from your pasture this summer by helping you select the mineral feed that will make your pasture yield most. If no MoorMan Man calls, write MoorMan Mfg. Co., Dept. M 3-4, Quincy, Ill., for full mineral feeding information:

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CONCENTRATES STOCKMEN NEED BUT CANNOT RAISE
OR PROCESS ON THE FARM

MoorMan's* (Since 1885)

*Trade Mark Reg. U. S. Pat. Off.



Kansas Farm Home and Family

By FLORENCE McKINNEY



When Your Club Entertains in the Spring

COME SPRING and women's clubs all over splurge with a party. Whether it be a formal or informal tea, drink or dessert, hot food or cold, it's the nicest occasion of the club year, so let's make the most of it. Fancy yeast breads served with coffee or hot tea cause ripples of admiration and much recipe exchanging. But save this plan for a very small group. A tray of party sandwiches in interesting shapes and of a variety of breads and fillings will do the same and be suitable for a large crowd. Here are some suggestions.

Pinwheels: Cut the crust from a loaf of day-old bread and slice very thin lengthwise. Roll with rolling pin and spread with softened butter and a soft filling such as cream cheese, egg salad, mashed shrimp. Roll as a jelly roll and fasten with toothpicks. Wrap in oiled paper and place in the refrigerator. When chilled, cut in one-half-inch slices.

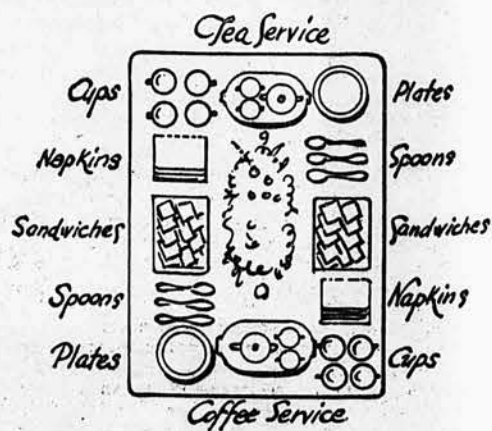
Fingers: Spread any sweet dark bread with softened cream cheese and cut in narrow lengthwise strips.

Ribbons: Stack 3 slices of brown bread and 2 of white alternately, after spreading with any desired filling. Trim off crusts and wrap in oiled paper to chill in refrigerator. Slice just before serving.

Rounds: These are small open-faced party sandwiches. Cut bread with a cookie cutter. Cover with hard-cooked egg slices, or shrimp or cucumber.

Triangles: Cut bread squares diagonally and spread with your favorite filling. Decorate these to suit your fancy, but here are some ideas. Spread with softened and seasoned cream cheese and dot with bits of candied ginger or slices of stuffed olive or bits of sweet pickle or tiny pieces of fresh cucumber.

To keep finished sandwiches fresh from a previous day's making and thus save that hectic rush at the last minute, try this. Place a damp towel in the bottom of a large shallow pan. [Continued on Page 31]



Allow edges to hang over the sides. Cover with waxed paper. Stack the sandwiches with waxed paper between each layer. Fold edges of the towel snugly over the sandwiches.

Fillings help to add color as well as fine flavor to party sandwiches. Here are a few for variety.

Salmon or Tuna: Mix 3 cups of either salmon or tuna, 1/2 cup finely chopped celery, 4 tablespoons chopped olives, 1/2 teaspoon salt. Mix with enough mayonnaise or cooked salad dressing to moisten.

Shrimp: Chop and mix 3 cups shrimp, 6 tablespoons chopped celery, add 3 teaspoons lemon juice, 1/4 teaspoon salt and 1/2 cup mayonnaise or cooked salad dressing.

Sardine: Mix and moisten with mayonnaise or cooked dressing, 3 cups sardines with 4 tablespoons prepared horseradish and 1 1/2 teaspoons salt.

Cream Cheese and Marmalade: Mix four 3-ounce packages of cream cheese softened with 3 tablespoons marmalade, 4 tablespoons chopped celery and 1/2 teaspoon salt.

Cucumber and Cream Cheese: Moistened four 3-ounce packages cream cheese with cream. Chop and add large cucumber, 1/2 green pepper and one small onion. Season with salt and pepper and spread on small squares of rye bread.

Chipped Beef and Cream Cheese: Mix two 4-ounce packages dried beef, chopped with three 3-ounce packages cream cheese. Add cream to soften.

Avocados and Onion Juice: Peel ripe avocados, mash and season with onion juice, salt and lemon juice.

Cheese and Nut: Mix four 3-ounce packages cream cheese and 2 cups walnuts, finely chopped. Moistened with thick cream and season.

Ice Cream Tray

Serve ice cream and let the guests choose the topping off a tray. Bowls of butterscotch, chocolate, pineapple mint, apricot, strawberry, all are suitable.

Spring Punch Party

Spring punch served with an assortment of pretty sandwiches or fancy, crisp crackers at a pretty table makes a delightful refreshment, easy to prepare. Serve it from a punch bowl. Service appointments can make or break your party.

Spring Party Punch

- 2 cups sugar
- 2 cups water
- 2 tablespoons crushed mint leaves
- 3 cups orange juice
- 1 cup pineapple or berry juice
- 1 cup lemon juice
- 3 cups iced tea
- 2 quarts water
- 2 cups ginger ale

Boil sugar with 2 cups water about 5 minutes to make sirup. Add crushed mint. Cool and strain. Add fruit juices, tea and remaining water. Just before serving, add ginger ale. Pour over ice in punch bowl. Garnish with slices of orange and sprigs of mint. Serves 25.

Keep decorations simple and uncluttered and stick to a color scheme. For a tea or coffee party or one where punch is served at the table, all spoons, napkins and plates should be placed in straight lines. Keep them equal distance from table edge. Arrange cups uniformly and if possible avoid stacking them. Use candles only after sundown or in a darkened room.

Paper Plate Pictures Something for the Sick-a-Bed

When the cold-bug smites the little folks and it's best to stay in bed, keeping them there is the biggest problem of all. In no time it seems, they grow tired of all the toys and the bed. Here's an idea. Let them make a picture. It's a lot of fun!

First, select an old flower and seed catalog with brightly-colored pictures of vegetables, fruit and flowers, then provide the bed-ridden young artist with a pair of scissors, a jar of paste, a wooden paddle for spreading and large paper plates.

In case you have no paste on hand make some with cornstarch or laundry starch, and put the cooled mixture in

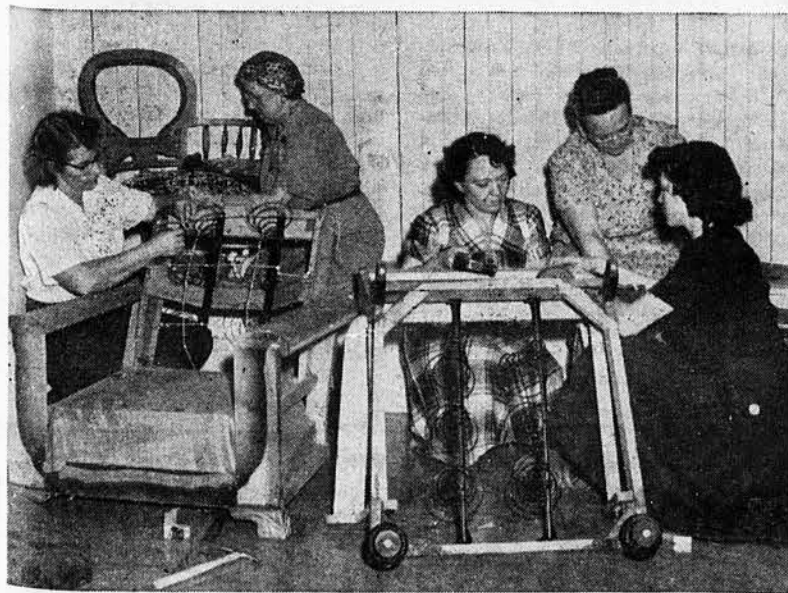
an old cold-cream jar. The pretty pictures are to go on the paper plates.

Small Sue can cut out small flowers and paste around the rim of the plate with a fruit arrangement toward the center. There are countless ideas and who has more than little folks. Let them develop their own. It's fun and passes time.

Freeze a Large Supply

Dishes which take a lot of time in preparation such as onion soup, chicken a la king and bean soup can be prepared to last several months, then frozen in your food freezer.

Franklin County Has Five Upholstery Schools in Progress



FURNITURE TO BE UPHOLSTERED is stripped down to the frame. Five upholstery schools such as this are in progress in Franklin county under guidance of Mrs. Frances Smith, home demonstration agent. Left to right are Mrs. Arville Garrett, Mrs. F. C. Prager, Mrs. Al Magee, Mrs. C. E. Cook and Mrs. Smith.



FREE

of extra cost when you buy
any of 7 New Silver Anniversary
SKELGAS RANGES!

Just picture this lovely, luxurious Silver Serving Tray in your home! Truly a thing of beauty—and such a useful beauty at mealtime and at party-time! It's big as well as beautiful—wonderful for use as a platter for meats and snacks! You'll find plenty of use for this beauty!

And just think! This sparkling F. B. Rogers Silver Serving Tray can be yours as a gift—when you modernize your kitchen now with a gleaming new Silver Anniversary Skelgas Range. This remarkable offer is limited—so see your Skelgas Dealer now!



COMPLETE SET—EASY TO GET!

Lovely complete F. B. Rogers Silverware Set—Serving Tray, Creamer and Sugar, Water Pitcher, Coffee Server and Double Vegetable Dish are wonderfully easy to own. Ask your local Skelgas Dealer for details of this very special Silver Anniversary Offer.

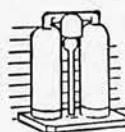
22 Great New Skelgas Ranges To Choose From!

Whatever the size of your family or the type of kitchen you have, there's a work-saving, flavor-saving new Skelgas Range to suit you perfectly!

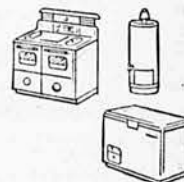
See the luxurious new Silver Anniversary Skelgas Constellation Ranges featuring such advanced conveniences as the Broil-Master, smokeless oven-sized broiler, the "Vue-lite" Controls, and super-insulation that means really cooler kitchens in hottest weather! See all 22 great new Skelgas Ranges at your local Skelgas Dealer's now!



Trade in your old stove now!
See your Skelgas Dealer for a real deal!



The sign of better living. No matter where you live, you'll live better, with modern Skelgas Fuel and Skelgas Appliances in your home! Money can't buy a cleaner fuel than Skelgas! And whether you buy a new Skelgas Range, a Skelgas Thrift-Omatic Water Heater or any other Skelgas Home Appliance, you're sure of the utmost in satisfaction... backed by the factory-trained service of your local Skelgas Dealer!



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NOTES FROM THE
BEET SUGAR KITCHEN
by Nancy Haven



FROSTING*
WITH A SOUTHERN ACCENT

Praline Crunch—a sample of the frosting treats in Beet Sugar's exciting new booklet, below. Sprinkle this delicious candy-crisp topping over a large angel or sponge-type cake, liberally frosted with whipped cream (use 1 cup whipping cream). Refrigerate for several hours before use. Decorate with tiny fresh flowers.

Here's How Stir together 2 cups Beet Sugar, 1 cup coarsely chopped nutmeats (pecans, almonds or walnuts) and 2 unbeaten egg whites. Spread in thin layer in greased and floured shallow (10 by 15") pan. Bake in moderate oven (350° F.) 25 minutes. Cool; crush with rolling pin. Makes about 3½ cups, ample for two cakes. Stores well in covered jar.



Send for "Fashions in Frostings"—Nancy Haven's thrilling recipes. Everything in frostings, from the quick to the elaborate, plus guides to sure success and decorating ideas for every occasion. Address below.



In all the world there is no better sugar than U.S.-grown Beet Sugar for frostings, baking—every sugar use.

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Remarkable Results

Raising Baby Chicks

Mrs. C. M. Bradshaw, Diagonal, Ia., says: "I have been using Walko Tablets for 35 years with splendid results. I would not think of trying to raise Baby Chicks without them. I also use them for my grown birds with the same satisfaction."

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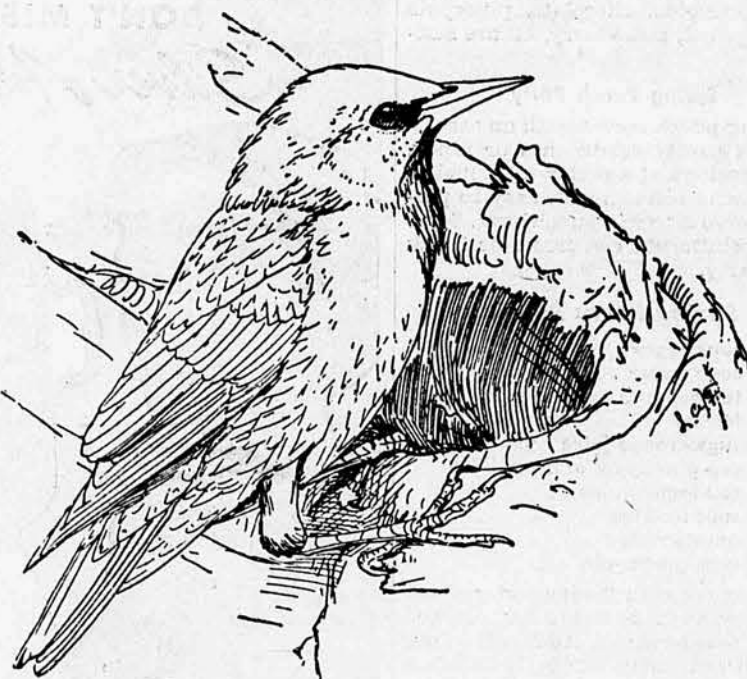
Buy a package of Walko Tablets today at your druggist or poultry supply dealer. Use them in the drinking water to aid in preventing the spread of disease through contaminated water. Satisfy yourself as have thousands of others who depend upon Walko Tablets year after year in raising their baby chicks.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

Walker Remedy Co.

Waterloo, Iowa

KNOW YOUR BIRDS . . .

By L. B. CARSON



GOOD POINTS AND BAD . . . that goes for the starling. He's a foreigner, the first ones released in New York City in 1890. Today they are one of our most common birds.

The Starling

*The starling, as an alien
Liked life, the American way
And judging from his numbers,
It seems he's here to stay.*

STARLINGS were released in New York City in 1890 when "The American Acclimatization Society, under leadership of Eugene Schieffelin, brought 80 birds from Europe and freed them in Central Park. From this point the starling population has increased until they now are found in the extreme western states. Most cities have favorite roosting places where thousands of these birds congregate each evening, usually on ledges of large buildings or when these spaces are filled, they will make use of trees nearby. Favorite roosts may harbor as many as 100,000 starlings.

More people have asked more questions about this bird than most others, for he is thoroly confusing. His song is made up of a series of squeaks, whistles and grating sounds with a scattering of imitations of other American birds. If you hear the songs of killdeer and bobwhites coming from the tops of trees, you are listening to some of these efforts. Some are good, some bad, but all confusing! The plumage varies from a smoky brown in the young bird to iridescent purples and greens in the breeding adult. Some feathers give the appearance of a speckled meadowlark. He runs on the ground, never hops. His yellow beak is distinctive.

Needs a Hidden Spot

The nesting habits of this bird are open to criticism for he takes over the favored locations before our better-loved migrants return. He requires a hidden spot such as a birdhouse, old woodpecker nest, knothole or some crack or cranny about buildings for the construction of his home. This makes him highly competitive with our native woodpeckers, martins and bluebirds. These birds resent the intrusion and so do birders who have made homes for the native species. Four to 6 pale-blue eggs are laid in the nest which is made of grass and often lined with feathers.

Starlings love company especially in winter when large flocks congregate and often associate with redwings, grackles and cowbirds. These birds do not share the starling's habit of roosting around city buildings. Even in nesting, starlings show a tendency to stay close together and take pleasure in taking over a martin house before the owners return from their winter vacation.

Woodpeckers find it difficult to pro-

tect their homes against starlings for while they are chasing one bird away from their nesting hole, another takes over. This rotation goes on until the rightful owner gives up and seeks a new location where he is likely to meet with another group which is eager to dispossess him of his newly completed home.

When it comes to eating, the starling has a better reputation, in fact his eating habits are mostly on the credit side. He eats quantities of insects and worms and can be seen working in your yard hunting for cutworms, grubs and beetles which constitute a major portion of his diet.

Of the 4 species of foreign birds which have done well in America, the starling is potentially the least desirable but may reach the saturation point soon and taper down to the point where he is a good citizen. Only time will tell.

A Reader Wants to Know

We received the following questions about birds from a reader. "I have noticed that cardinals on our lawn sing at 7:30 in the morning, we could almost set our clock by their songs. I have noticed, too, that for several years, little wrens have arrived on April 16 to settle in our wren house. I marked the date on my calendar. Can you explain how birds can be so exact? Clouds, rain or other bad weather do not seem to affect their timing.

L. D. Carson, our authority on birds, answers as follows: The fact you hear your cardinal sing at 7:30 each morning is probably linked with your own habits and not those of the bird. Cardinals become active in early dawn and during the nesting season can be heard singing most any hour of the day. They often sing at night.

As for Wrens

Now for the wrens. Most migrants, including wrens, move north in spring when the average weather encountered can be endured. Late snows and high winds halt these migrations to the extent several days difference in arrival time may be noted.

My records on the house wren show arrival dates from April 1, 1945, up to and including April 20. This would indicate we should start to look for this bird around April 1. You are fortunate you always have him on the same day.

We suggest you read Frederick C. Lincoln's story entitled, "Our Greatest Travelers." It may be found in The National Geographic Society Book of Birds, Vol. II, page 301. This set of books is advertised in the National Geographic Magazine. We think you will enjoy it.—L. B. C.

BAKE THIS PRIZE WINNER
RED STAR *Special Active* **DRY YEAST**

Best of Class Winner, Grand National Baking Contest, Waldorf-Astoria, Mrs. Lillian Leonard, Guthrie Center, Iowa

\$1,000 HAMWICHES
BAKE at 400°F. for 20 to 25 minutes. MAKES 1-dozen rolls.

DISSOLVE 1 package RED STAR Special Active Dry Yeast (or 1 cake Red Star Compressed Yeast**) in ¼ cup warm water (110° to 115°F.). **COMBINE** 1 egg, beaten, ½ cup lukewarm tomato juice, 1 tablespoon brown sugar, 3 tablespoons shortening, melted, 1½ teaspoons celery salt, 1 tablespoon grated onion and the dissolved yeast. **ADD GRADUALLY** 2½ cups sifted Pillsbury's Best Enriched Flour*, beating well after each addition. Place in greased bowl and cover. **LET RISE** in warm place (85° to 90°F.) until double in bulk, about 1 hour. **DIVIDE** dough in

half. Roll out each half on floured board to a 9-inch circle. Cut each circle into 6 wedges. **PLACE** 12 small slices boiled ham on wedges. Roll up each wedge, starting at wide end and rolling to point. Place on greased baking sheet, point-side down. **LET RISE** in warm place until light, about 1 hour. **BAKE** in moderately hot oven (400°F.) 20 to 25 minutes. Serve warm.

*If you use Pillsbury's Best Enriched Self-Rising Flour, omit celery salt.

**If compressed yeast is used dissolve in ¼ cup lukewarm water.

RED STAR IS THE FIRST 3-WAY IMPROVED DRY YEAST

QUICKER DISSOLVING...
QUICKER RISING...
KEEPS FRESH LONGER

RED STAR
QUICK RISING
DRY YEAST
SPECIAL ACTIVE

THE POET'S CORNER

The Wren

A wren has alighted in yonder trees
Concealed in a leafy bower,
And scatters his silvery notes on the breeze
To bestir me this horrible hour.

For the rays of the sun are scarce aslant
Or the mists of the night dispelled,
Yet that little mite emerged from the night
To shatter this slumbering world.

How odd are the ways in nature's ken
When a thimble of feathers, an ounce
of glee,
To charm his mate, this twittering wren
Chose the handsomest twig on the homeliest tree.

Now I care not a whit for his amorous fate
Let him stutter or twitter or squawk,
But I wish that his romance were much more sedate
For it's only five by the clock.
—By Chester Alexander.

Man's Faith in God

The farmer goeth forth to sow,
He knows not if drouth or rain
Will be the cause of loss or gain.
For frost may nip the tender sprouts,
Or various insects clean them out,
Many a crop with prospects bright
Is killed by hailstones overnight.
No farmer has a way to see
Just what his year's income will be,
But he that goeth forth to sow,
Who tills the soil with plow or hoe,
Who works thru seasons cold and heat,
That man and bird and beast might eat,
To earn their living from the sod
Has never lost his faith in God.
—Dora Means.

Easter Services

The bluebird had tolled its fragile tongue,
The early spring bird chorus had sung.

The Easter lilies had bowed their heads
In prayer above their new-green beds.

Then jack-in-the-pulpit, in glorious tone,
Spoke what the wildwood had always known:

"Surely no one can doubt rebirth
When spring transfigures the whole earth!"

—Lillian Easley Moore.

Winter Rain

Last night I thought I spied the spring
Around the corner where
The sunbeams masked themselves
in clouds
And spring was in the air.

This morning when the play was done
And masks were off again,
I found old winter in the cast
Behind a veil of rain.
—Hazel Griffith Davis.

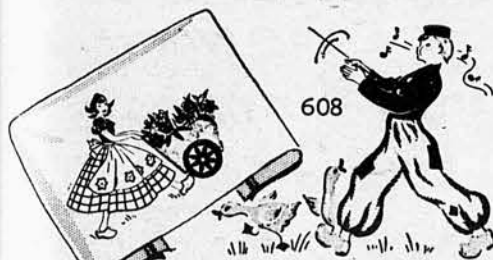
Yum Yum

The scent from purple lilacs
And spicy cedar, too,
And from red fields of clover
Sure thrill me thru and thru.
There's smell of rain in summer
And leaf fires in the fall;
A whiff from Ma's hot bread is
The keenest smell of all,
—By May Smith.

Shopping Casualty

Breakfast foods must be chosen with care
Or all the kids will pull my hair
If they find their hero or game not there.
—By Mrs. John P. Duerksen.

USE YOUR NEEDLE



Iron-on Designs in 3 colors



657—Iron these sunny yellow and sparkling red tulips with green leaves on your linens. No embroidery. Washable. Transfer of 8 designs 2 by 3 to 4½ by 9½ inches.

608—Iron gay sparkling Dutch designs in yellow, red and ocean blue on kitchen towels, aprons, napkins, cloths. Washable. No embroidery. Transfer of 10 designs 7 by 4½ to 2½ by 1¾ inches.

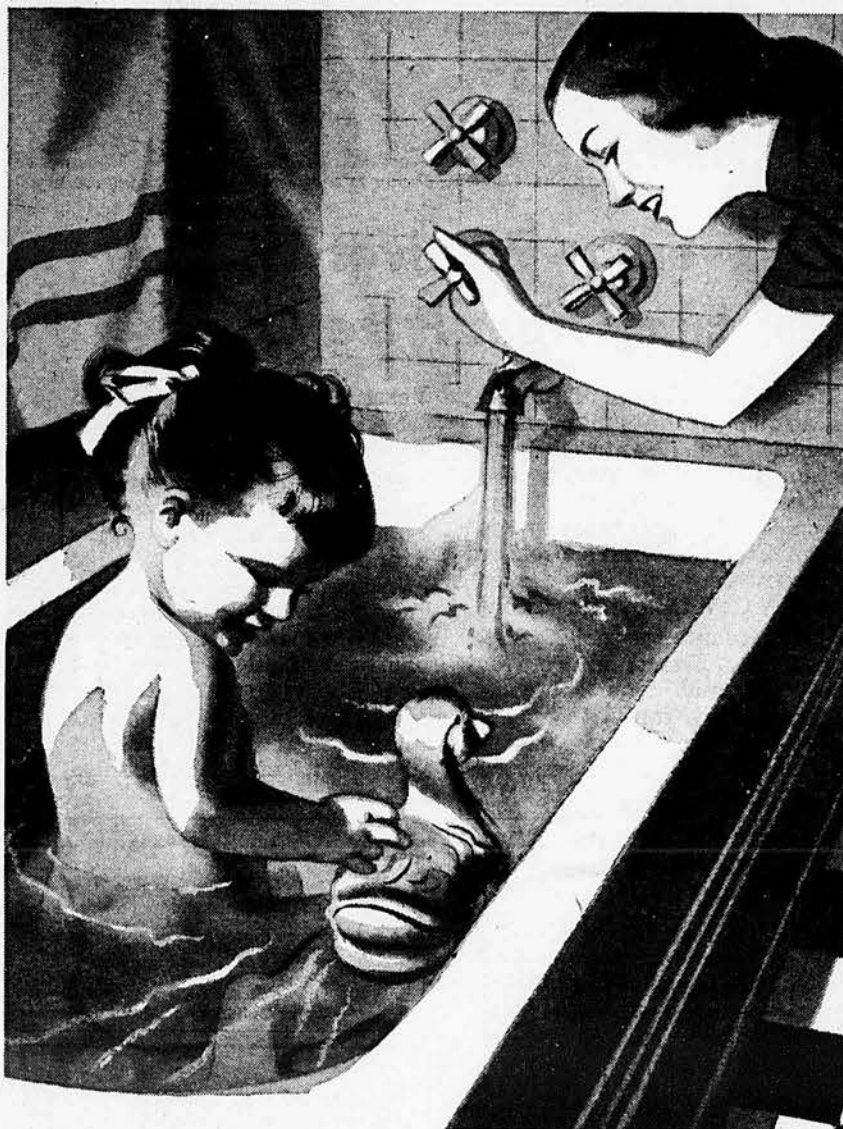
7186—Give your living room a fresh spring look with these easy to crochet pineapple design chair-backs. Use No. 30 cotton. Easy directions.

7079—Cheery chicks to amuse you and brighten the kitchen. Embroider a set of towels or an apron in a jiffy. Transfer of 6 designs each about 7 by 7 inches.



Patterns are 25 cents each. Five cents more for each pattern if you wish first-class mailing. Twenty cents more for Needlecraft Catalog. Address Needlework Editor, Kansas Farmer, Topeka.

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Mrs. Franz gives Governor chance to sample her prize-winning cookery

Governor Receives Winning Entry from Prize Cook

Mrs. John A. Franz of Buhler, Kansas, presents her prize-winning cooking entry to Governor Edward F. Arn at the Kansas State Fair. Mrs. Franz won the special "Governor's Award" in last fall's cooking competition—and the chance to meet Governor Arn in person!

Besides entering cooking contests, Mrs. Franz finds time for teaching and countless community activities. With a busy schedule like that she really appreciates the convenience of Fleischmann's Active Dry

Yeast. "It's so fast-rising and easy to use," she says. "And absolutely dependable!"

Prize-winning cooks prefer Fleischmann's Active Dry Yeast—out of 5000 prize winners surveyed, 97% like Fleischmann's best. It's so much handier than old-style cake yeast—keeps for months on the pantry shelf. Always rises fast! Now when you bake at home it's convenient to use yeast. But use the best—look for the label and get Fleischmann's Active Dry Yeast.

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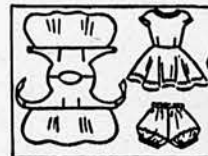
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4613—Sew one sundress, have an entire wardrobe by adding collar, capelet and bolero. Misses' sizes 12 to 20. Size 16 takes 4 3/8 yards 35-inch fabric; 3/4 yard contrast.

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9150—Sundress and bolero. Ideal for shorter, fuller figure. You'll wear it everywhere. Half sizes 14 1/2 to 24 1/2. Size 16 1/2 dress takes 2 3/4 yards 35-inch fabric; 3 yards 1 1/2-inch eyelet.



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SIZES
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SIZES
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SIZES
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Patterns are 30 cents each. Five cents more for first-class mailing for each pattern. Address Fashion Editor, Kansas Farmer, Topeka.

Kansas Future Homemakers Hold Their Annual Meeting



NEW STATE OFFICERS Kansas Future Homemakers. Front row left to right: Roberta Caulk, Highland Park, Topeka, president; Kay Brownell, Harper, treasurer. Back row, Beverly LeRoy, Columbus, historian; Carolyn Cornwell, Osborne; 1st vice-president; Mary Bremkamp, Colby, 3rd vice-president; Colleen Davis, Marysville, 2nd vice-president; Gaye Nelle Lane, Cimarron, song leader. Sylvia Gaddie, Cottonwood Falls, secretary, is not shown.

IT WAS a dazzling picture—the Topeka Municipal Auditorium filled with 2,800 personable and ingenious teenage girls attending the seventh annual state meeting of the Kansas Association of Future Homemakers of America, March 14.

Typical American Girl

Typical of the all American girls who make up these builders of homes for America's future—homes where truth, love and security will rule, was petite, blue-eyed and blond Marilyn Hobbie, daughter of Mr. and Mrs. Donald Hobbie, who live on a 1,000-acre livestock farm near Osborne, Kan. Wearing a blue and brown plaid dress, fashioned by herself, white hat with small gay brown flowers, and red pumps and purse, Marilyn looked as tho she had stepped right out from the pages of a fashion magazine. Visiting with this young miss one is surprised to learn that this fun-loving girl can do almost anything there is to do in this whirl of today's living. Marilyn not only cans, cooks, and does the many other duties involved in housekeeping but she runs a tractor in the summer for her Dad. There are no sons in the Hobbie family, just Marilyn and her year younger sister, Ila, both of whom love to help their father as well as their mother.

One of the proud 85 Future Homemakers who were awarded the State Homemaker Degree at this year's annual meeting, Marilyn, acting as her own interior decorator, redecorated the Hobbie living and dining room this year is her project for meeting one of the requirements for the degree.

Marilyn even mixed the paint with which she decorated the living room walls. She selected the material and made new draperies for the 2 rooms, painted the dining room chairs and upholstered the seats in gay plastic.

With the auditorium's gray velvet stage curtains for background, the words, "Higher Living," in letters at least 3 feet high and divided with an 8-foot-long torch, highlighted this

year's theme, "FHA—A Torch for Higher Living."

The torch was a magnificent piece of work and was made by 2 freshman Seaman Future Homemakers, Sandy Saia and farm-raised Evelyn Cathart.

A poised brown-eyed dark brunette with sparkling personality, Roberta Caulk, of the Highland Park FHA chapter, was installed as state president for the coming year. Assisting her in their role as newly installed state officers will be: Carolyn Cornwell, vice-president, Osborne; Colleen Davis, 2nd vice-president, Marysville; Mary Bremkamp, 3rd vice-president, Colby; Sylvia Gaddie, secretary, Cottonwood Falls; Kay Brownell, treasurer, Harper; Beverly Leroy, historian, Columbus; and Gaye Nelle Lane, song leader, Cimarron.

New Officers Installed

The installation of state and district officers by retiring President Marilyn Alexander and her officers was a beautiful and highly colorful affair. Dressed in all white, each officer was presented with a red rose as she was installed.

District presidents installed included: Eileen Kauffman, Topeka, Seaman H. S.; Mary Jo Peterson, Alton; Peggy Yowell, McPherson; Sue Ann Newsom, Medicine Lodge; Beverly Badders, Kincaid; Dorothy Kalous, Waterville; Joann Krannawitter, Hoxie; and Shirley Haley, Ulysses.

Mary Helen Eaton, of Harper, was the lucky girl chosen from among the candidates from the 8 FHA districts as the Kansas girl who will be a candidate from this region (Kansas, Nebraska, and Missouri), this year for national FHA historian. The national officers will be elected this year at the national convention to be held this summer at Columbus, O.

Eighty-five successful candidates were honored at the meeting by being awarded the state's highest and most coveted award, the State Homemaker Degree.

Winding up the eventful day for the Future Homemakers was the tea given at the executive home of Governor and Mrs. Ed Arn and a guided tour thru the Kansas State Historical Society museum.

Hostesses for the 2 events were members of the Women's Division of the Topeka Chamber of Commerce.

Standing in the receiving line at the tea were Miss Betty Gesey, chairman of the Women's Division, Mrs. Arn and her daughter, Delores. The newly elected district presidents poured.

My Favorite Recipe

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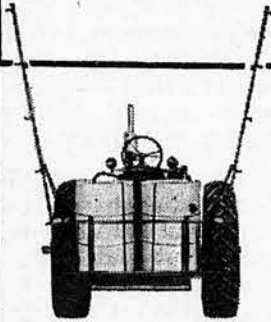
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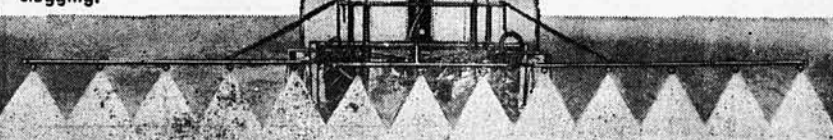
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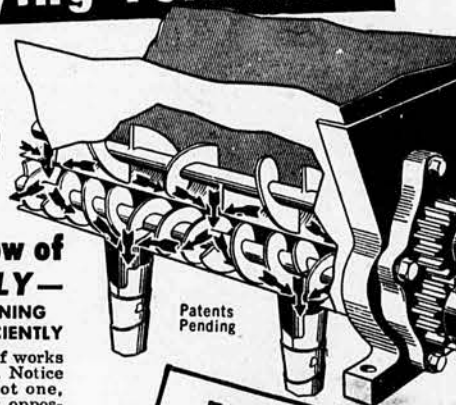
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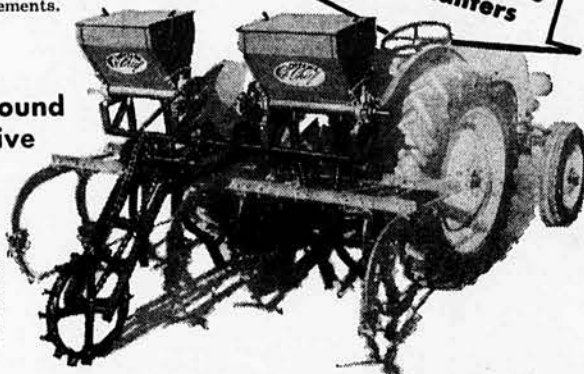
Investigate how the Ottawa Chief works and you'll settle for nothing less. Notice (in diagram) there are two, not one, positive feed augers. The lower opposing auger makes the big difference. It controls the distribution because it precisely, automatically measures and forces pulverized fertilizer equally through all distribution tubes. Rough ground or smooth, fast speeds or slow, the exact amount is always automatically applied. By merely interchanging special sprockets that drive the augers, you can positively set the rate of flow to meet application requirements.



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Ottawa Farm Chief Attachments apply fertilizer automatically as you cultivate or plant. Feed rate and placement can be varied to suit side-dressing requirements. Available in tractor drive or ground wheel drive units, also tractor mounted 2 and 4 row attachments.

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Not all round-roofed farm buildings are framed with Rilco glued-laminated wood rafters. Because there are important differences in framing members, you should protect yourself by checking these points before you build:

What Kind of Material? Wood is considered best, and of the various species, Douglas Fir is outstanding for its strength and long life. Rilco rafters are made from carefully selected kiln-dried West Coast Douglas Fir.

What Kind of Rafter? Tests by Forest Products Laboratory engineers show that glued-laminated rafters are four times stronger than nailed rafters of the same size.

What Kind of Glue? The very best for farm rafters is waterproof

resorcinol glue, because it is completely unaffected by the extreme moisture present in all barns. "Exterior" or "Ext." stamped on Rilco rafters is your assurance of this superior glue.

What About Engineering? It can be costly to use rafters that have not been engineered for their particular job. Rilco rafters are engineered for lasting, trouble-free service.

How About Rilco? Sturdy, wind-resistant Rilco buildings have stood the test of time and hard service. Factory shaped, cut and drilled, they are delivered ready for easy, money-saving erection. Be sure you get your money's worth—look for the Rilco trademark on every rafter you buy. See your lumber dealer, or write for free literature.

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ENJOYS MORE EASE IN FEEDING

New All-Purpose Building Offers Convenience and Efficiency

By MIKE BURNS

CARL ARGABRIGHT, Hiawatha, used to feed cattle in a lot at the bottom of a hill near entrance of his farm. It was handy, but he grew mighty tired season after season of feeding in an almost continuous mire. He vowed when he could build his own feeding setup, it would be high and dry on a well-drained hillside.

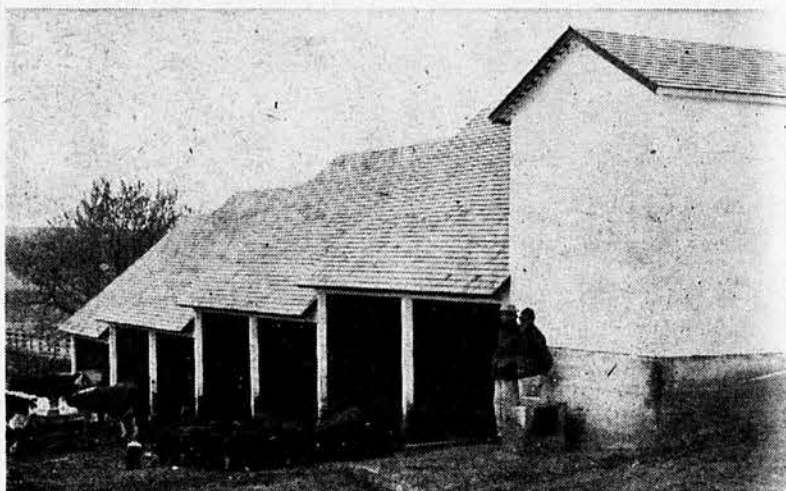
That vow was made good last fall, when he completed a new 72-foot-long building, housing a corncrib, protein and grain bins, feeding bunk, and concrete feeding floor, all under one roof. The "stair-step" building is well up on a hillside with a crib floor fall of 7 feet

from end to end. Mr. Argabright, as well as feeding out of the mud, has combined in his setup everything he could think of for convenience and efficiency.

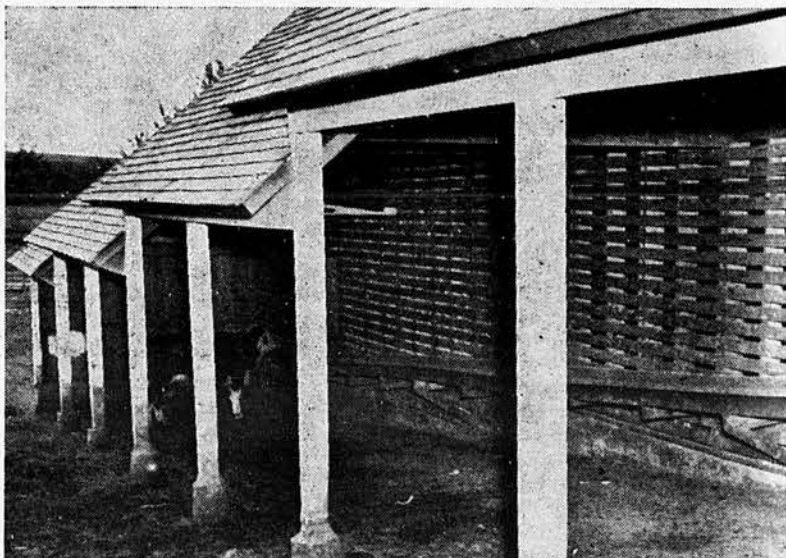
Crib section of the building is on the north, paralleling a gravel lane up to the farm home. An elevator is used to fill the crib thru overhead doors. Being outside feeding lots, the elevator can be left in place without livestock nosing it out of line.

The crib is 10 feet wide, 12 feet high, with 4 elevation changes from end to end. Three levels are 20 feet long with

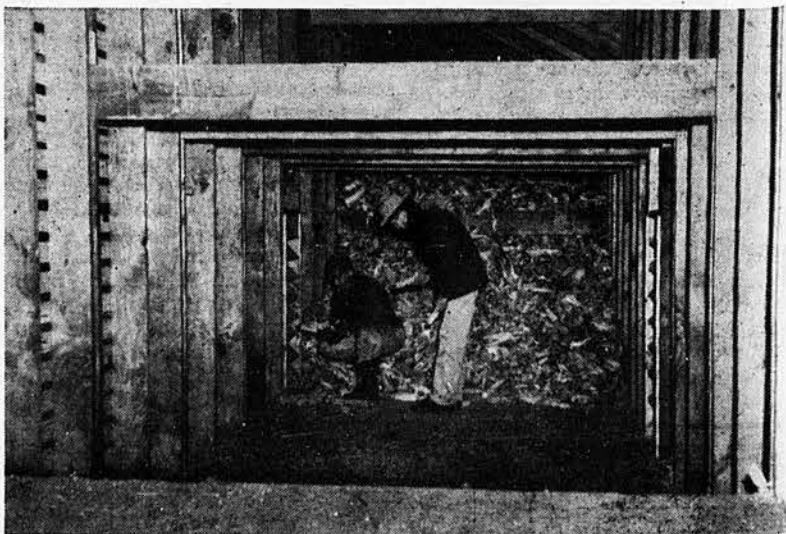
(Continued on Page 37)



CARL ARGABRIGHT (right) and Brown County Agent Harvey Goertz inspect Mr. Argabright's new concrete feeding floor and feed trough under shed roof at right with corncribs behind for ease of feeding. Building at right is farm grain bin with protein room next to it.



THIS VIEW of the Argabright farm corncrib and feeding building shows part of the 30-by-72-foot feeding floor and feed trough which runs full length of building and can be supplied directly from cribs. Wooden beams supporting roof are anchored in place by metal rods.



THIS SHOWS INSIDE of Argabright crib. To left is feed lot. In front of Mr. Argabright (kneeling) is one of series of louvered openings thru which corn is fed directly into trough outside. Corn is fed thru this opening until next opening further along in the crib is uncovered. Heavy cross bracing is also shown here. Mr. Argabright with Harvey Goertz, Brown county agent, are shown inspecting corn.

2-foot floor at the lower end. Studs 2x8's. Cross braces 6 feet from floor 2x10's and about 9 feet up, 2x8's braces were used. "We had 4,500 bushels of corn in here last year and the crib didn't give a bit," Mr. Argabright said.

Doors open at crib floor level both on side and lot side of crib. Under a roof south of crib is the concrete feeding floor which follows slope of roof. Just below doors opening out of crib on feeding floor side is a continuous feed trough running length of the building. This enables Mr. Argabright to feed right out of the crib and protected from weather. The feeding floor is 30x72 feet about 4 inches thick of ready-mixed concrete. Posts supporting the shed roof over feeding floor are made of three 2x8's bound together with steel strap at base. A steel rod was driven into the ground. Then a wooden wheel was set around the rod as a form for a concrete footing. Center of lower end of wooden post was hollowed to admit metal rod. This holds posts in place when animals rub against them.

It's no trouble at all to keep our feeding floor clean," Mr. Argabright explained. "In fact, upper end of it has never had to be cleaned. Twice over with a dozer blade kept rest of it clean last year. Water coming off of roof helps to wash it down too."

Some folks wondered if that much slope might be dangerous for cattle to slip on the floor in icy weather but Mr. Argabright who feeds hundreds of cattle a year says he has never had any trouble.

Further up slope are protein room and grain bin of 1,100-bushel capacity. The bin, filled thru an overhead door, is 22 feet and 12 feet high, with floor sloping from 3 directions to feed grain down to a chute which opens onto feeding floor.

Built almost entirely of new lumber, the entire structure, including labor, lumber, cement, but not paint cost about \$4,400, Mr. Argabright estimates.

Mr. Argabright farms 320 acres with a deferred fed steer program and pigs. He has a new 80-foot-long trench on a side hill above the feed lot also convenient for feeding.

ire New Herdsman

Effective April 1, new herdsman of Premier Hereford Farms, at Wolcott, Norman Minks, Kansas State College beef cattle herdsman for last 3 years. He is a 1949 graduate of the college, was herdsman of a Polled Hereford farm near St. Louis before returning to Manhattan.

ie Farms From Air

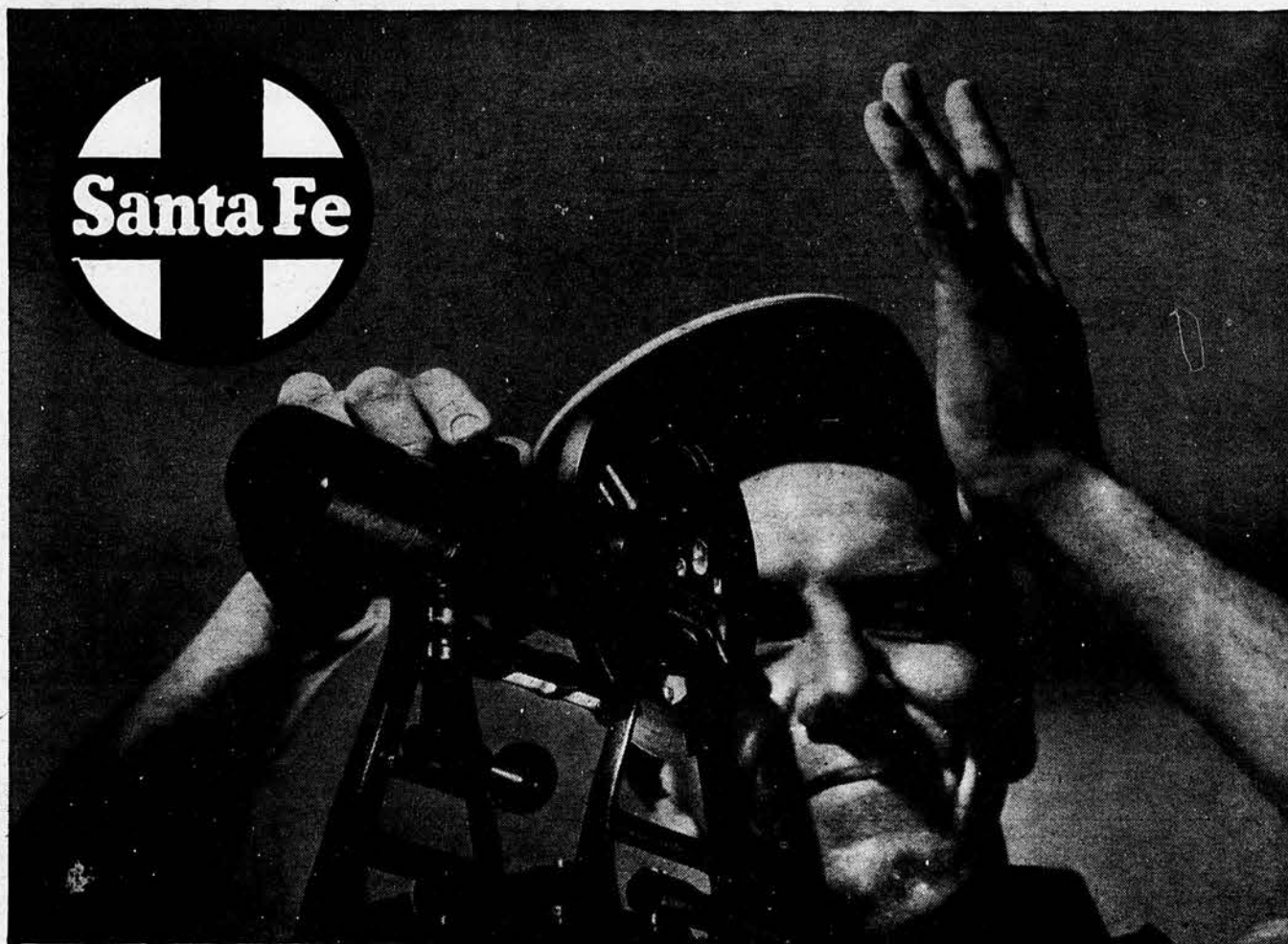
Farmers of Seward county and part Haskell county this month will get chance for a bird's-eye view of their farms. SCS district of Seward county made plans for an air trip tentatively set for mid-April. Flying Farm- will help in the event.

ame a Kansan

Named in charge of poultry investigation work at the USDA Agricultural Research Center, Beltsville, Md., is A. Brant, Kansas State College poultry graduate of 1940. USDA poultrymen are concerned with breeding, nutrition, physiology and poultry production.

chool or Club Program

"A Ticket for Amy," requires 3 characters. Scene laid in railway ticket office. "Here Comes the Bride," play requiring bride and groom, 6 children and several singers. "The Hill Billy Wedding," play that includes several characters and is heaps of fun. "Happy Go Luckies," playlet in poetry. Clever entertainment for any community group. Write to Home Service Editor, Kansas Farmer, Topeka, Kan., and enclose 5c for each leaflet ordered.



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IN THIS YEAR... New micro-wave communication system put in service between Galveston and Beau-

mont, Texas... New freight classification yard will be opened at Belen, New Mexico.

AND IN THE NEXT YEAR... More curves will be clipped, more grades reduced... 119 new diesel units will go to work... New modern diesel shops will be completed... 3600 new freight cars will be placed in service... New electronic communication and control equipment will be installed... and El Capitan will be re-equipped with all new chair cars!

AND IN THE NEXT 5 YEARS... New cars and whole new trains will be rolling on an ever newer, greater Santa Fe.

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Looking for Long-Range Program That Will Aim at Full Parity

By CLIF STRATTON, Kansas Farmer's National Affairs Editor

WASHINGTON, D. C.—Senate and House committees on Agriculture have started plowing for the "long-range" farm program that is to minimize Government props and controls, but aim toward 100 per cent parity prices for farm commodities.

Sen. George D. Aiken's Senate Agriculture committee opened hearings on farm problems and proposed solutions last week. Rep. Clifford Hope, chairman of the House Agriculture committee, announced commodity advisory committees are being named to co-operate with Congress and Secretary of Agriculture Ezra T. Benson in seeking a permanent program.

Present programs, so far as price supports and purchasing programs are concerned, are to be carried thru 1954. That is the law at present, and Secretary Benson has promised to carry out the expressed will and intent of Congress. Within the amounts appropriated by Congress, of course.

In Congress, and among leaders of more conservative farm organizations, it is hoped legislation can be enacted at the expected 1953 fall session of this 83d Congress. That anything of a permanent nature can become law at the present session seems to be beyond the bounds of possibility. To let the legislation hang over until 1954 session would be to plunge it into the maelstrom of the 1954 congressional campaigns—which promises to be hottest in years.

Spoke in Blunt Terms

In a speech to the American Dairy Association in Chicago, Secretary Benson laid it on the line. His was the bluntest speech made to a farm group by a Government official in many years—and he spoke to more than dairymen.

Calling on the dairy industry to take the lead in solving its problems on its own—with government supports only such as will strengthen the industry instead of weakening, perhaps destroying it, in the long run—Benson told it in terse, straight-out, understandable language.

Here are some of the things he said: "You can solve your marketing problems without the kind of government supports which price your products out of the market. . . . You will recapture the good will of the public which has deteriorated because of unworkable price supports at the expense of the taxpayers. . . .

"If the present trend is allowed to continue, butter is on the way out.

"In 1940 we were eating nearly 17 pounds of butter per person. Now, we are averaging a little under 9 pounds per year.

"Total production of creamery butter was 1,872 million pounds in 1941. In 1952 only 1,206 pounds were produced; a reduction of 666 million pounds.

"In these 11 years population has increased by 23 million persons. . . .

"In 10 years, sales of butter per consumer have dropped almost one-half. The disappearance of butter from the markets will continue unless aggressive steps are taken to save the industry. . . .

"Why has there been such a drop in butter sales?

"The industry knows the answer.

Truth About a Lye

That's the title of a little booklet printed by the Pennsylvania Salt Mfg. Co., Philadelphia, available to you free. The 52-page booklet gives you dozens of hints on uses of lye in the home and around the farm. For your copy, write Farm and Home Service, Kansas Farmer, Topeka, Kan.

"Many say butter has been 'priced out of the market.'

"If that is true, then dairy farmers and the dairy industry had better seriously question the wisdom of recommending to the Government that butter and other dairy products prices be supported at 90 per cent of parity.

"Abnormally high prices destroy markets for individual farm products as substitutes move in.

"Another 10 years of market declines such as in the past would virtually wipe out the butter business. It is a market that must not be lost.

Not the Only Example

"Butter is not the only example of loss of markets thru artificial prices.

"The high support price for cotton is given credit for greatly stimulating the production of synthetic fibres. The synthetic industry has speeded up research to produce high-quality, man-made fibres. The production of such items as nylon and rayon is equal to 3.3 million bales of cotton per year.

"The United States has the capacity to produce man-made fibres equal in amount to 4.3 million bales of cotton. The world capacity . . . equivalent of 12 million bales.

Forced Away From Wool

"Wool has had high price supports of one kind and another for years. Some old textile and clothing companies which all thru their history had made nothing but 'all wool' cloth, rugs and clothing, have been forced away from all-wool.

"The public, in part at least, now has been sold on suits, rugs and other products that contain high proportions of fibre other than wool. Much of the demand for wool may have been lost permanently to American farmers and sheep ranchers.

"Of course, price is not the only factor that affects markets for farm products. An industry which is not alert, research- and market-wise, can have trouble regardless of price policies. But the fact remains that farmers cannot

(Continued on Page 39)

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 men's — \$13.95 to 19.95

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afford to price themselves out of the market . . . Industries which demand continued high, rigid government price supports and will not aid themselves are doing untold permanent damage to farmers. . .

Will It Help or Destroy?

"Examine carefully this question of 90 per cent price support for dairy products. Will it help destroy or build markets for our farmers who are producing milk?"

"No industry thrives on shrinking volumes of business. We need an expanding, growing market for dairy products. . .

"Major dependence on rigid price supports at uneconomic levels will be destructive to the great dairy industry of the United States. . .

"The decline in consumption of milk and milk products is alarming.

"For 1952 the use was about 695 pounds (based on fat solids) per person per year—the lowest on record. In 1939, the milk equivalent use was 824 pounds per capita. . .

"Children and other consumers should not be subjected to this severe cutback in use of milk and milk products.

"Because, it could easily result in a rapid lowering of nutrition and thus less vigor and poorer health among our people. If farmers and the dairy industry team up to recapture the market for the 130 pounds of milk per person which has been lost in the past 13 years. . . They will turn the butter problems into opportunities. . .

Food for All Ages

"Too many people still think of milk primarily as baby food. Advertising and sales effort need to be broadened to include all people.

"Look at the job the citrus industry has done in expanding the use of juices. Consumption has been pushed up to levels never before dreamed of—and it will go even higher. Also, look at the expansion of soft drinks and other beverages.

"The rapidly increasing number of older people offers a challenging market for more milk and dairy products. Everyone wants to live longer—and milk will help achieve a longer and more zestful life.

"Milk continues to be an economical food. It provides many different nutrients relatively cheaply and is an excellent source of calcium—in which our diets often rank low. . . Milk is by far the most economical source of calcium in diets, and provides good returns in many other nutrients, too. . .

"This fact needs more persistent selling. . .

"The rapid population increase gives a solid future for dairying—if the industry will get its full share of the growing demand for food.

"In 1930 we had 123 million people to drink milk and consume dairy products. In 1940 there were 9 million more. In 1950, the population had shot up 19 million.

"By now there are 159 million dairy customers in the United States—36 million more than 23 years ago. That is an increase to 2½ times as many people as there are in Canada.

"The rapid population growth . . . offers tremendous market expansion opportunities for farmers. . .

"The dairy industry, in organizing its action program to solve the butter and dairy 'surplus' problem, should tell all our educational, research and Extension services what part we can play.

"If the Government still owns any appreciable amount of butter when 1954 arrives, I hope all of us will admit frankly our failure. Let's be prepared to face facts, and act accordingly."

Study Soil Effects

Camp Fire Girls in America—370,000 of them—celebrated their Birthday Week, March 15 to 21, with a "Down to Earth" project. Thru participation in conservation activities, the girls are discovering how the soil, and the things that grow in and on it, affect their health, wealth and happiness.



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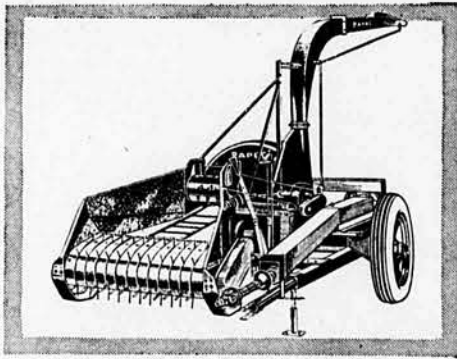
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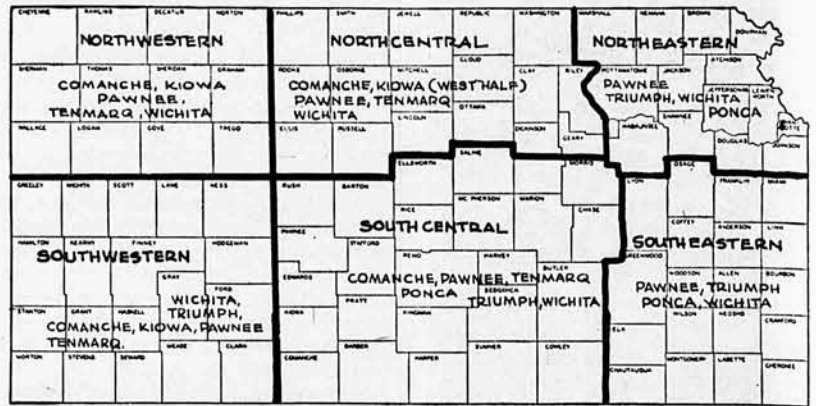
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Next Time, Which Wheat?

(Continued from Page 1)



ALL APPROVED WHEAT VARIETIES adopted to your area are shown on this map of Kansas. Perhaps it will help you choose the right wheat to plant next fall.

to outyield Pawnee. The 2 varieties are equal in test weight, time of maturity, straw strength, height, milling characteristics, resistance to loose smut, and susceptibility to stem rust.

Dr. H. H. Laude, Kansas State College agronomist, says Ponca is superior to Pawnee because the grain does not bleach as readily, sprout in the head, nor shatter as much if left standing in the field. Ponca is equal or superior to Pawnee in bread-baking quality. Ponca is susceptible to bunt, but this disease is readily controlled by seed treatment.

A map accompanying this story—see above—shows three areas in which Ponca is adapted. If you are considering this variety for planting you should know Ponca is less winter-hardy than Pawnee. This means danger of winter-kill might offset its other advantages in northern counties of Eastern Kansas.

Has Made Great Strides

Kiowa, released in 1951 by Kansas State Experiment Station, has made great strides in Western Kansas, where it is best adapted. Kiowa resists lodging better than Comanche, Tenmarq or Wichita. It does not shatter to any extent, does not bleach readily and its test weight averages a pound higher than Comanche. Kiowa has outyielded Comanche from 1 to 3 bushels in Western Kansas tests.

Kiowa is similar to Comanche in susceptibility to Hessian fly; is highly resistant to bunt or stinking smut; is somewhat more susceptible to leaf rust than Comanche or Pawnee, and is equal to or slightly more resistant to stem rust than those varieties.

Milling characteristics of Kiowa are entirely satisfactory and baking qualities acceptable. The one big weakness of Kiowa is susceptibility to loose smut.

The only way loose smut can be killed is to have the seed treated by a special hot-water treatment being used at Fort Hays Branch Experiment Station, according to Doctor Laude. This treatment has to be accurate enough to kill the smut without killing the wheat germ, and is too delicate an operation to be done on the average farm, says Doctor Laude. Fortunately, loose smut is not too prevalent in Western Kansas.

Adapted All Over State

Wichita, an early-maturing hard red winter wheat, is adapted to all areas of the state. Superior characteristics are early maturity, high yield, and high test weight. Under conditions favoring early varieties it will outyield Pawnee and Comanche and Early Blackhull. Under normal conditions, Pawnee and Comanche will yield higher.

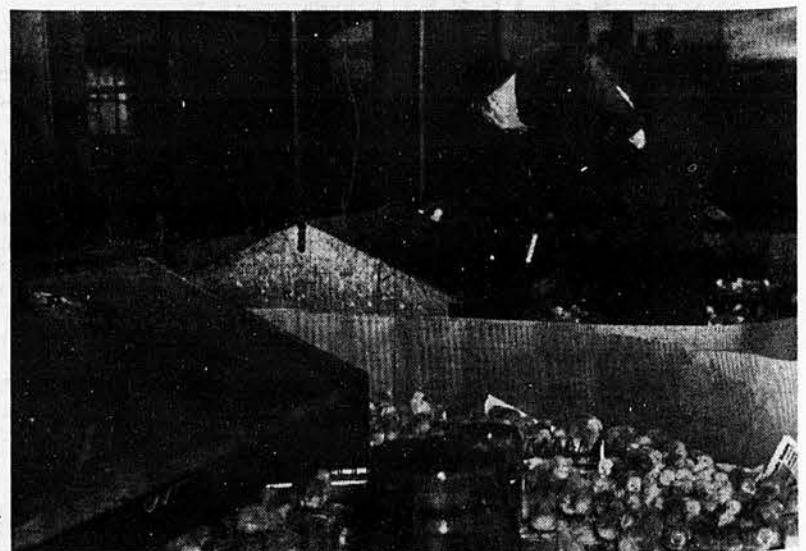
Wichita is about equal to Early Blackhull in reaction to diseases and insects, being generally susceptible to loose smut, bunt, leaf rust, stem rust and Hessian fly, altho early maturity often enables it to escape part of the damage caused by rusts and fly. Wichita matures about 6 days earlier than Tenmarq and Blackhull but one day later than Early Blackhull. Lodging at maturity is slightly less than for Early Blackhull but greater than Tenmarq, Pawnee or Comanche. Wichita is more winter-hardy than Early Blackhull.

Milling characteristics of Wichita are similar to those of Turkey. In baking, Wichita flour is said to have a low-absorption capacity. It requires more mixing time than Pawnee but less than Turkey.

BlueJacket is a bearded hard red winter wheat. In yield it has averaged 1.7 bushels less than Pawnee, and 1.1 bushels less than Comanche in 35 Kansas Experiment Station tests over a

(Continued on Page 41)

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3-year period up to 1950. In co-operative tests conducted on Kansas farms in Eastern Kansas in 1949, Pawnee, Wichita and Triumph averaged 3.2 bushels an acre more than BlueJacket. In Central Kansas over a 2-year period, 1948 and 1949, Pawnee, Comanche, Wichita and Triumph averaged 1.9 bushels an acre more than BlueJacket. In Western Kansas farm tests, average yields for 2 years of BlueJacket and 4 approved varieties was about the same.

BlueJacket has a higher test weight than any approved variety. It is about 3 days later to head than Comanche and 4 days later than Pawnee. It is the tallest variety being commercially grown in Kansas yet has a strong straw.

Selected by E. G. Clark, of Wichita, BlueJacket is said to be nearly equal in loaf volume to Pawnee and Blackhull, but usually has a slightly longer mixing time than either. It is, according to Kansas Experiment Station releases, very susceptible to leaf rust, but has a slight resistance to stem rust. It is completely susceptible to mildew and is susceptible to stinking smut, loose smut, and speckled leaf blotch. It also is susceptible to Hessian fly.

The Kansas Crop Improvement Association has not approved BlueJacket for certification and the Kansas Experiment Station does not recommend it because: "Tests have shown BlueJacket is not superior, and in most cases not equal, to approved varieties in yield. It has no resistance to the important diseases or insects now prevalent in Kansas. Baking quality of flour made from BlueJacket is not sufficiently high to add quality to Kansas wheats."

Not Field-tested Yet

In August of 1952, Kansas State College reported Iohardi, a variety from Iowa, was creeping into Kansas. Iohardi is winter-hardy, as its name implies, is tall, late to mature, and very susceptible to shattering. In Iowa it has a high yield. In Kansas it has a test weight equal to or better than Pawnee and quality is acceptable. No field testing has been done in Kansas.

E. G. Clark, of Wichita, has 3 new varieties on the market now. They are RedJacket, KanQueen and KanKing. RedJacket, says the Kansas Experiment Station, is similar to BlueJacket in nearly all respects but has a brown (red) chaff color, covered over with black, instead of a white chaff covered with black. It has been tested 2 years at the station in nursery tests plus several plot tests.

KanQueen is an awnless wheat with white chaff and under proper conditions will develop a black color. It is tall and late to mature, has a good-quality straw. Quality tests indicate it is not a hard wheat, say Kansas State Experiment Station releases. The variety has been tested in the nursery 2 years and in several plot tests.

KanKing is bearded, brown chaffed, with black covering. It has excellent-appearing grain and high test weight. It is earlier than Clark's other varieties and has quality similar to Red Chief. Tested one year in the station nursery. No plot tests.

Stafford is a new selection from Blackhull made by S. E. Blackburn, of Stafford. Stafford variety is tall, late-maturing, has good straw and test weight, and high yield potential. It is not a hard wheat, however, according to the experiment station, which has tested this variety several years in station and plots and regional nursery.

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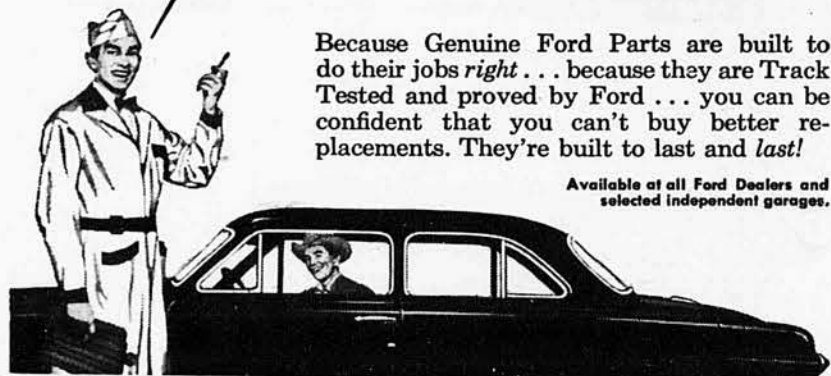
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Fertilizers Gave Profitable Yields When Used According to Soil Tests

SOIL TESTS available to you thru your county or state soil-testing laboratories are your best bet for a reliable fertilizer program, according to Kansas State College soil scientists who last year checked reliability of their soil test recommendations on check plots over the state. They found, especially with corn, that fertilizers applied according to test gave profitable responses, despite adverse weather.

These and other test results were announced at Kansas State's Fertilizer Conference in Manhattan recently.

Along with announcing new findings came the statement of Dr. L. M. Turk, Michigan State College, that with present knowledge we already have enough know-how to double present total yields. We can take care of the promised increases in our population if every farmer will use fertilizer programs tested and proved by 10 per cent of the nation's farmers who already are profiting from them.

Kansas now has 45 county soil-testing laboratories, and more than 5 times the samples were tested last year as 3 years ago.

Shows What Is Needed

Summary of the soil-testing program indicates over-all need for lime and phosphorus in the state. Scientists stressed, too, the need for even more accurate tests to improve fertilizer efficiency.

Field test results varied, of course, with location and such variables as soil type and weather, could be summed up like this. In a test at Kingman, for each 36 cents invested in fertilizer, another bushel of wheat was harvested over and above yields where no fertilizer was applied. Similar results were reported in fertilizer tests elsewhere in the state. At Kingman, too, where brome followed grass sod that had been in for 10 to 12 years, fertilizer doubled the brome yield.

Phosphorus gave profitable response in every wheat plot but Belleville, and there the extra return just paid for fertilizer. Where 50 pounds available phosphate (P_2O_5) were applied with 50 pounds nitrogen, at Manhattan, response was 7.5 bushels over no treatment, the added wheat costing 60 cents per bushel. Hutchinson increase was 6.5 bushels, for 70-cent investment. Increases at Canton cost \$2.25 per bushel, Kingman, \$1.12.

In the potash-low southeast, 25 pounds of potash (K_2O) per acre gave 3.5-bushel-an-acre wheat increase, each bushel costing 35 cents in fertilizer invested. Applications to oats and barley gave similar results, altho financial returns from nitrogen applications were not as spectacular because of the difference in crop values.

Native pasture response to commercial fertilizers centered around nitrogen (N). Use of N, alone or with phosphorus and/or potassium, at any rate tested, gave increased grass yield on Manhattan pasture. This treatment also raised the crude protein content. The more nitrogen used, the higher the protein.

Made Striking Response

Kentucky bluegrass made striking response to use of nitrogen and began multiplying in pastures as soon as nitrogen was used. Mid-grasses (little bluestem and side oats grama) and perennial forbs made slight decrease in number as nitrogen was applied.

Use of all 3 plant nutrients, nitrogen, phosphorus and potassium together made for more balanced association of native grasses.

Tests on row crop fertilization showed no spectacular results this year due to hot weather, just at crucial times which, more than drouth, lowered response to fertilizers, especially nitrogen, research men explained. High subsoil moisture counteracted serious drouth effects. On corn, nitrogen showed most response in the northern part of the state.

Magnesium was tested this year and where deficiencies were known to exist thru soil tests, response in increased yields was noted, especially in Southeastern Kansas.

Potassium response was good despite dry weather, especially where soils are low in exchangeable potassium. Phosphorus generally had a depressing effect on yields.

Milo yields were highest in tests on sandy soils near Great Bend where 20-40-40 was deep placed at planting time with 20 pounds nitrogen sidedressed in mid-July. This gave 60 bushels; more than \$2 return for every dollar's worth of fertilizer applied.

Potassium on low potash soils gave the only response in soybean tests.

Interesting are results of long-range soils studied. Affect of liming on pH values in the soil was found as deep as 8 to 10 feet from liming which was started in 1924. Most of the effect of lime has remained in the surface layer of soil, however.

Phosphorus also was found to have a residual effect, remaining in the upper 8 inches of the soil at Columbus in Southeastern Kansas. Barnyard manure was seen to be as effective as potassium supplier as potash fertilizer on this soil. Manure gave crop response where increased percentages of organic matter were not shown. Beneficial effects of the manure then are not entirely explained by per cent of organic matter, but also bring about improved physical conditions of the soil and increased availability of nutrients already in the soil, due to action of organic acids formed in breakdown of manure.

Nitrogen Is Very Important

Phosphate and potash fertilizers increased long-time yields more than phosphate alone. Highest yields, however, were obtained in all cropping systems from plots that received nitrogen, phosphorus and potash. This emphasizes the importance of nitrogen in maintaining crop yields even when legume is included in the rotation, it was stated.

Any danger in getting too much of a fertilizer element in the food you eat? Not a bit, according to evidence gathered so far in a complex study going on in Michigan, said Doctor Turk. In fact 2 dairy animals, half sisters, kept in separate pens on concrete for 7 years made no distinction in the feed they ate, from heavily- or poorly-fertilized plots, and the nutritional value of their milk was unaffected by fertilizer applied to feed plots from which they were fed.

In rural areas there may be quite a striking relation between soils and human health, Doctor Turk pointed out. A low standard of living and low fertility may limit crops that can be grown and thus nutritive value of food consumed.

It's not vitamins and minerals but lack of something to eat that is our greatest nutritional problem in this country. Thus soil fertility does ultimately effect the health of our people tho fertility of the soil itself has no effect on nutritional value of any food for humans except in supplying iodine.

Proper management and judicious use of fertilizers can well bring good soils for good health for us all, the scientist stressed.

Is It True?

Is it true all birds perch crosswise on limbs of trees or bushes?

Most birds do, but whippoorwills, nighthawks and other members of that family, perch lengthwise! They're especially active during the night, and spend long periods perching during the day. Since they are dull in color they are camouflaged during the day as they perch longitudinally.

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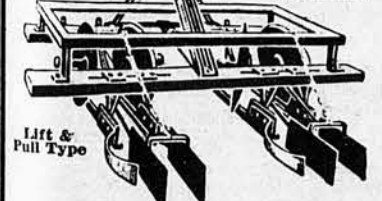
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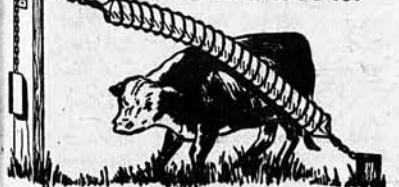
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FARMING "FIRSTS"

During 1949, 4-H work was organ-
ized in Germany, Greece, Japan and
Austria. In 1939, 4-H work began in
Jamaica.

First County Agricultural agent was
W. C. Stallings, in Smith county, Tex.,
in 1906.

First Centrifugal Cream separator
was introduced in 1859 by De Laval.
Before this invention, 4 methods (each
requiring milk to be cooled before skim-
ming) were used to separate milk and
cream.

First Apple Trees to be planted in
United States were in New England,
on Governor's Island, and first crop
was picked on October 10, 1639.

First Barley Grown in U. S. was in
1602, on one of the Elizabeth Islands,
on Eastern Coast.

Buckwheat Crop Was introduced by
Dutch into New York in 1625.

First Collection of Statistics of agri-
culture was done on March 3, 1839,
when Congress authorized the Com-
missioner of Patents to spend \$1,000
for collecting agricultural statistics
and for other agricultural purposes.

First Known Attempt at agricul-
tural education was National Society
of Agriculture of France, in 1761, which
encouraged appointment of agricul-
tural professors.

First Known Agricultural school is
believed to be one established in 1763,
at La Rochette, France.

Cattle-ranching in U. S. began in
middle of 17th century, in Virginia, not
in Texas, as is commonly supposed.

First Experiment in Cultivation of
tobacco was undertaken by John Rolfe,
husband of Pocahontas.

William Manning, of New Jersey,
was granted a patent for a mowing-
machine in 1831; is thought to be the
first one.

Obed Hussey, of Baltimore, Md., and
Cyrus McCormick, of Virginia, were
first to be granted patents for reaping
machines, the former in 1833 and the
latter in 1834.

First Establishment of the U. S. De-
partment of Agriculture was on May
15, 1862, when President Abraham
Lincoln signed the bill.

First Steel Plow was the invention
of John Deere, in Illinois in 1838.

First Establishment of the ARA
(Agricultural Research Administra-
tion), a program agency of the USDA,
was on February 23, 1942.

First Correspondence Course in Agri-
culture in the United States was the
"School of Farming" courses—the agri-
cultural branch of the Chautauqua
movement of the 1870's.

First Director of the USDA's office
of experiment stations was Wilbur At-
water, who also was first director of
the first state agricultural experiment
station—the Connecticut Station, in
1875.

First Establishment of the 4 regional
research laboratories of the Bureau of
Agricultural and Industrial Chemistry
of the USDA was on February 16, 1938.

First Seed Distribution to U. S.
farmers by Congress was in 1881. On
June 16, 1880, legislation was passed
making appropriations for the fiscal
year 1881.

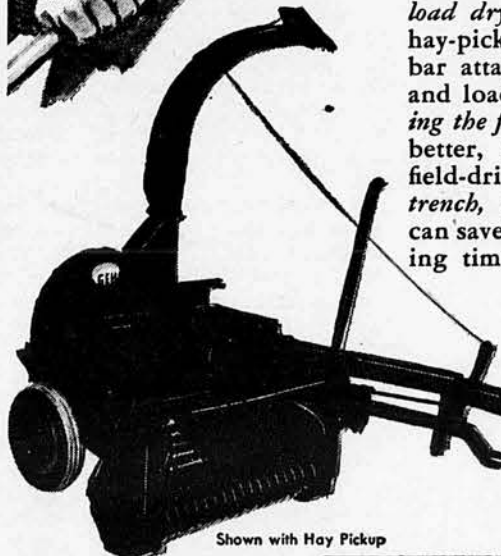
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is effectively used in telling and
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Editor, Kansas Farmer, Topeka,
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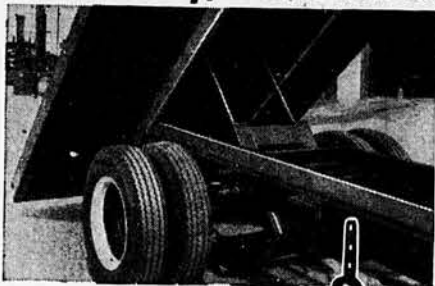


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THE SOIL MOVER CO.
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Flood Control Job Is a Big One

(Continued from Page 6)

That the big reservoir program of flood control not only was going to be more extensive and expensive than first thought, but that there was honest room for doubt the program would work. The Kansas commission went a step further and came up with an entirely new plan.

So, now we have one group pushing for watershed flood-control treatment; another group wants big dams; another group would like to see a combination of watershed treatment and big dams; still another group believes the main problem could be solved by the commission's proposed "flow-way" plan. Briefly, this last plan calls for no big dams but a plan of channel improvement, dikes and other protective measures to save the big cities. This plan maintains the theory it would cost more than the land is worth to try to protect farm land in the flood plains of main streams in Kansas. There you have it and no wonder you are confused.

Again, in an attempt to simplify the problem, let's say it is fire rather than flood we are fighting. You all know if you are present when a fire first starts you have a chance to beat it out, throw on some handy water or perhaps use a hand fire extinguisher. If the fire gets a little head start on you it will then take help of your neighbors or the fire department. You may still put out the fire, but in many cases the water damage is as great as from the fire. After a fire reaches a certain point about all you can do is watch it burn and try to keep it from spreading to other buildings.

How Does It Happen?

Now apply this thinking to a flood. How does a major flood happen? It is made up of thousands of little floods getting together in the main channels of streams. How, then, do the various flood-control programs hope to stop this flood?

Watershed treatment: This group believes if each little flood can be brought under control from the point where the water first falls to the point where it enters main streams, there would be no major floods on main streams. In other words, don't ever let the flood get a head start.

Large reservoir program: This group maintains you can't control all the little floods. The job is too complex and too slow. The reservoir plan is to let floods develop so far, then stop them in their tracks with large dams, either dry or of the multiple-purpose type.

Flow-way plan: This group says you can't afford to completely protect all the lives and property in a great river basin. Cost would exceed benefits. "Let 'er flood," is the idea of this group. "We'll get the water past the big cities all right at a cost we can afford. Flood plains would be zoned, too, to keep folks from moving in and building in the most dangerous areas.

Trying to get facts instead of propaganda to write this series of stories on water management, and trying to

properly evaluate various flood-control plans, I have interviewed or corresponded with highway engineers, hydraulic engineers, sanitary engineers, water resource engineers, city water engineers, soil conservation engineers, and the Corps of Army Engineers. I found there is an honest difference of opinion among engineers on how floods could and should be controlled. Their opinions varied widely depending upon their training, experience and convictions.

Since even the engineers can't agree, the only thing we, as laymen, can do is to fall back on our own common sense.

I don't know what your common sense says to you, but mine tells me the basis for any flood-control program should be watershed treatment. I like the idea that little floods, like little fires, are easier to handle than big ones. No, I don't think watershed treatment will hold all the water where it falls. People who say it will are doing the watershed cause an injustice. I do think the amount of water that could be held where it falls could be greatly increased. However, the important thing is to control runoff at the start. Check

For Clever Program

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

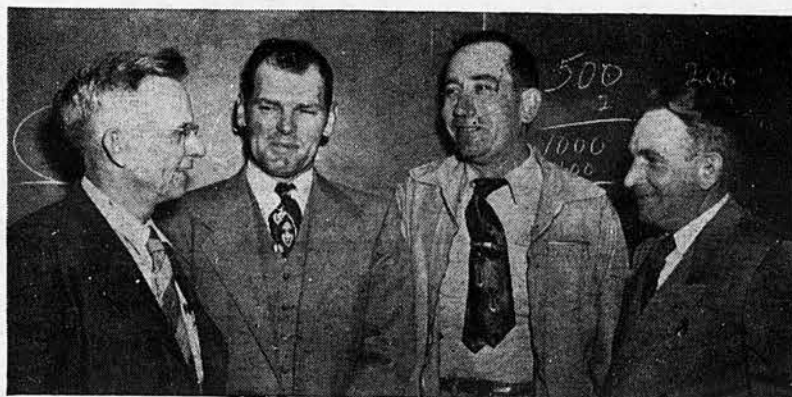
its speed. Hold it back in temporary basins, and let it out in a fixed and controlled manner.

Main objection to watershed treatment is that it would involve getting the co-operation of thousands of people, would take a lot of money and technical help, and would take a lot of time to complete to a point where any major flood-control effect would be apparent. Its strong point is that it will have to be done eventually, no matter what flood-control program is followed. It is the only plan that will improve production of soil and improve water tables over a wide area to the benefit of both rural and city populations. Watershed treatment also is the only plan, so far offered, that affords flood protection of any kind to folks living in the upper parts of the various large and small watersheds making up the Kansas basin.

Army engineers believe the reservoirs are the basic approach to flood control. They agree that watershed treatment is essential to help control flooding above reservoir areas and to protect their reservoirs from siltation. After the 1951 floods, Soil Conservation Service engineers made a study of

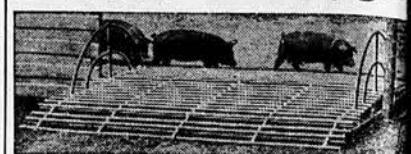
(Continued on Page 45)

LEAD AYRSHIRE WORK



KANSAS AYRSHIRE breeders elected these men to head their association for 1953. Left to right, Dwight E. Hull, El Dorado, secretary; M. B. Dusenbury, Corbin, president; Reeves R. Lewis, Furley, vice-president; and John Chambers, Owatonna, Minn., fieldman.

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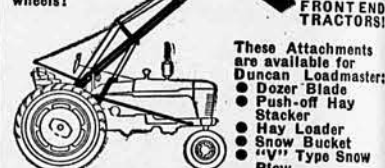
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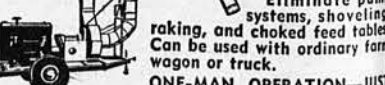
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siltation in Cedar Bluff, Kanopolis and all River reservoirs. They estimate the floods left 33,387 acre-feet of silt in the 3 reservoirs, and that this siltation reduced storage capacity in those reservoirs to the extent of \$4,690,000 the original cost.

These siltation figures compiled by the SCS engineers could be disputed, other engineers tell me, but the problem of siltation can't be. Frank Willey, production engineer at the Topeka waterworks, said the Kansas river carried 3,406 pounds of silt to every million pounds of water at the height of the 1951 flood, according to actual tests made at the plant.

That Curious Age

Five little folks have short recitations on the subject of nursery rhymes in the playlet, "That Curious Age." Humorous and entertaining. Send your orders and 3c for postage to the Home Service Editor, Kansas Farmer, Topeka, Kan.

If you listen to extremists on the "big dam" side you might believe that Tuttle Creek dam on the Blue could only be completed, everybody on the river banks from there to Kansas City would be saved from flooding. Col. L. J. Lincoln, district engineer for the Corps of Army Engineers, recently made a speech in Topeka which included this statement: "If Tuttle Creek had been completed before July, 1951, it would have reduced the flood stage at Topeka at least 1 1/4 feet." In other words, under the big reservoir program, at a cost of \$7 to 100 million dollars, the big flood crest at Topeka in 1951 would have been reduced by less than 2 feet.

Only 5 Needed at First Guess

Before 1951, Army engineers thought floods in the Kansas basin could be controlled by 5 large reservoirs. These were Milford dam on the Republican, Perry dam on the Delaware, Kanopolis on the Smoky Hill, Harlan county on the Republican, and Tuttle Creek on the Blue.

Following 1951, Army engineers reviewed the basin and now say it would take 34 reservoirs plus local protective dikes at various points along the main rivers. "The 34 basic reservoir units now needed in the Kansas basin," says Colonel Lincoln, "would provide roughly 7,600,000 acre-feet of storage for retention and control of floods."

Cost estimates for all these are not complete, but Colonel Lincoln believes the price would be about 700 million dollars. This greatly-expanded and costly program would take years to complete. Right now the whole program is in a standstill position because after the Missouri River Basin Commission made its somewhat unfavorable report, the Eisenhower administration put out an order to halt awarding new contracts on all multiple-purpose dams in the basin states.

Altho I personally approved of the governor's commission to restudy the whole problem, I think the commis-

sion's program of "flow-ways" is the least realistic of the lot. Ever since I can remember engineers have been following the policy of speeding up runoff and trying to get water past certain danger points with the attitude that "somebody else can worry about it from there on."

It seems to me that common-sense objections to the proposed "flow-way" plan as a single solution to floods are many. First, when you increase speed of runoff by cutoffs, channel straightening and other methods of forcing water thru a more restricted area, you increase its destructive power. Second, the flow-way plan offers no protection for farms in the flood plains, and protection to cities only if the dikes hold up. Third, it does not solve the over-all flood problem but merely proposes to shift it from Kansas to somewhere below the Kaw-Missouri junction. Past floods on the Missouri and the Mississippi already have proved they cannot be handled when they get that far along. Fourth, it also overlooks the fact that keeping some of the water in Kansas might be worthwhile for later drouth periods. This point is so important Kansas Farmer has a complete feature planned on water-supply problems for the next issue. Most sensible part of the flow-way plan is zoning, but the main Kansas valley already is so heavily populated and industrialized it is too late to achieve maximum benefits.

Control Little Floods

Summing up, my opinion is that our basic approach to flood control should be directed to controlling the thousands of little floods that go to make up the big ones. This would mean primary efforts should be put on the watershed treatment program.

It is almost certain, however, that watershed treatment would not result in complete flood control. But, with floods partially controlled at their source and siltation reduced to a minimum, we could then make an intelligent choice between 2 supplementary plans—a minimum number of reservoirs, or a flow-way plan.

While I do not favor flow ways as a sole plan for flood control, they might work in conjunction with a sound watershed-treatment program, where all the water possible would be held or delayed in the watershed, with flow ways to handle the balance. Or, it might be, some of the now-recommended reservoirs would still be needed to protect the lower ends of river valleys.

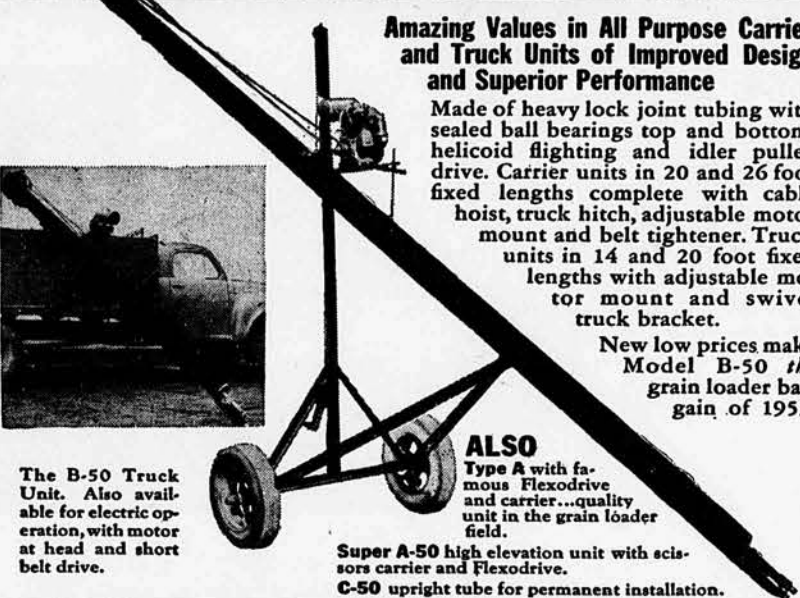
The greatest flood-control danger right now is indecision. There is so much confusion over all these plans, old and new, that the tendency will be for Congress to lay low and do nothing.

I would like to see Congress authorize a complete watershed treatment program for the entire Blue and Delaware basins to prove or disprove claims made for this method of flood control. Enough reservoirs have been built in the Missouri basin so some evaluation already has been made on that program.

What can you do? Make up your mind what you think would be best for Kansas as a whole—not just for yourself—then work hard to get action now.

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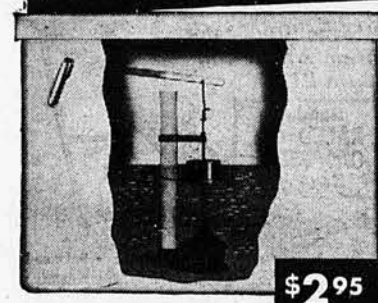
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HEAD MILKING SHORTHORN WORK



OFFICERS of Kansas Milking Shorthorn Association for 1953 are left to right, Walter Otto, Great Bend, retiring president; Ezra Wolf, Quinter, president; C. O. Heidebrecht, Inman, secretary-treasurer; and W. E. Dickson, Springfield, Mo., fieldman.



**Less Disease
Less Feed
Less Work**

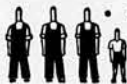
Hogs thrive on a clean concrete feeding floor. You raise more hogs per litter and they are healthier, heavier hogs. You save on feed too. Tests by the Department of Animal Husbandry of the University of Missouri proved that hogs fed on a concrete floor gained 20% faster on 5% less feed than those fed on a dirt lot.

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Morton County Is Top Sorghum Producer

Morton county is top grain sorghum county in Kansas, with 1952 production of 987,800 bushels, according to State Board of Agriculture and U. S. Bureau of Agricultural Economics.

Six counties each produced over one-half million bushels of sorghum grain, and 7 counties reached this high goal in 1951. Stevens county, with 757,900 bushels, ranked 2nd in 1952 production. Other top counties were Rice, 607,200 bushels; Grant, 549,000; Scott, 528,000, and Rice, 504,000.

Highest yields per harvested acre were produced in northeastern and east central counties. Johnson county with 27.2 bushels per acre had highest yield, Jefferson was second with 27 bushels and Douglas, third with 26.8 bushels.

In acreage of sorghums harvested for all purposes (grain, silage, and forage) in 1952, Stevens county was first, with 129,500 acres and Morton was second, with 97,600 acres. Reno county had 54,700 acres and Grant, 51,500 acres.

State production of sorghums for grain totaled 18,536,000 bushels, smallest grain crop since 1947. Record production of 1951 was 57,310,000 bushels. Sorghum was third most valuable crop in Kansas in 1952, outranked only by wheat and corn.

It Is Dodstone Block

That solidly-built poultry house on the Nielsen farm, described in our March 7 issue, is really of Dodstone block construction, not the material mentioned in the story.

Dodstone building blocks are 40 per cent lighter in weight than sand concrete, contain 3 tapered cores for reinforcing, so highly stressed steel construction permits contraction, expansion, yet does not require large footings. Dodstone buildings are of 6 times insulating value of concrete, are tied at corners with steel angles and corners are poured concrete. Exterior walls are waterproofed, painted, or may be veneered, the manufacturer states.

Name WIBW 1953 Scholarship Winners

WIBW annual 4-H Club scholarship winners are announced for 1953. They are Janice Miller, Milford, and Roger Lee Wilson, Council Grove. They are recognized for outstanding project and leadership records.

Janice, for 10 years a member in

No. 9 in series of farm biographies
of agricultural "greats" . . .

LUTHER BURBANK

Luther Burbank became known as the world's foremost plant breeder of his time, inventing hundreds of fruits, vegetables, flowers, grasses, grains and trees. The Great Experimenter, sometimes he tested thousands of strains, only to keep 3 or 4!

He was born March 7, 1849, at Lancaster, Mass., and spent his boyhood on a farm. He was educated in common schools, then at Lancaster Academy. Never receiving scientific education, he did not keep detailed records. He was a naturalist, horticulturist, plant breeder, writer and philosopher. In 1875 he moved to Santa Rosa, Calif., and his fame mushroomed. The famous Burbank Experiment Farm was established, and later the Luther Burbank Society. He became a special lecturer on evolution at Leland Stanford University, wrote many articles. He often said he was no "wizard," attributing his success to hard, unceasing observation and selection. His Burbank potato was said to have exerted greater influence on food supply of humanity than any other single food plant.

Among his accomplishments: stoneless plum; the plumcot, a new fruit; Burbank rose; spineless cactus; scented calla; made the blackberry white; developed a strawberry to yield the year around; produced winter rhubarb; and he turned a troublesome weed into the beautiful shasta daisy.

Luther Burbank, a slender, quiet, modest man, always was thinking, planning, doing. His discoveries meant more and better food and addition of millions of dollars a year to income of farmers. He was the first honorary member of the Plant and Animal Breeders' Association of the U. S. and Canada. A genius of his time, he became a great benefactor of mankind.

Geary county, has completed project in home economics, poultry, dairy, leather and livestock. She made 101 garments, enlarged her food-preservation work from canning to growing a garden and freezing much of the produce. She prepared and served 160 meals, learned much about meal planning and making most of materials on hand. She has made 125 exhibits at local fairs and 96 at state fairs.

Roger, member of Council Oak Club in Morris county, completed 34 projects in deferred-fed steers, baby beef, swine, crops, potatoes, garden and leadership. He has held every office in his local club, completed work in health, safety, community relations, home beautification, news writing and tractor maintenance activities. He helped organize new club in his county, aided in presenting 4-H programs to local service clubs.

New Cattle Market

A new market for Hereford bulls has been found—sales to ranchers in Old Mexico.

A total of 142 head of bulls was sold to Bill Adams, of El Paso, Tex., for shipment to Mexico. Arranging the sale was the Kansas Hereford Association. Value of bulls was placed at about \$45,000. Those consigning bulls were Grover Poole, Manhattan, 32; Will Walsten, Hutchinson, 18; Harvey Krebiel, Pretty Prairie, 8; Joe O'Bryen, Hiattville, 50; Paul Hartwich, Onaga, 23; Ronald Kolterman, Onaga, 11, and Arthur Atwood, Silver Lake, 20 head.

Breeders in Mexico are trying to breed their herds back to where they were before foot-and-mouth disease outbreaks and restrictions closed cattle shipments.

Describe Kansas Clubs In 4-H Magazine

Two Kansas 4-H Clubs and the activities are described in recent issue of the National 4-H News, official national 4-H magazine published in Chicago.

Jeanne Volkland, of Bushton, wrote about her club, Bushton Boosters. She told about project work in 1952, how 33 members had a gross income of more than \$12,000 and net income over \$6,000. Jeanne wrote of their participation in fairs and how leaders are in project work.

Sandra Haynes, Great Bend, wrote about the Busy Buzzers club and their extensive safety project work. A picture of road signs the club erected on roads accompanied her article. She told of money-making ideas of her club.

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Rocks, Reds, Hampshire, Wyandottes, \$8.85; pullets, \$12.85; Leghorns, Austra-Whites, \$14.95; pullets, \$14.95; heavy mixed, \$14.95; Assorted Heavies \$6.80; Surplus \$3.85. Catalog. Hi-Grade Chicks, Deepwater, Mo.

White, Barred Rocks, Hampshire, \$8.75; pullets \$12.80; Leghorns, Austra-Whites \$8.95; pullets \$14.95; Hybrid cockerels \$5.55; Assorted Heavies \$6.80; Surplus \$3.85. Catalog. Hi-Grade Chicks, Deepwater, Mo.

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DeForest Blueblood Chicks, broiler and egg breeds. Hatching year around. Broadbreasted Bronze Poults. Guaranteed livability. DeForest Hatcheries, Box E, Peabody, Kan.

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Sexed Turkey Poults. Now you can raise either hens or toms. Write today to see how you can make more money on turkeys. Richardson, Brownell, Kan.

Started BB Bronze Poults, 3-4 weeks old. Pullorum clean, April 15 to May, 90c, 25c deposit, all cash 85c. Day-old, 65c. Day-old Belts, 60c, 3-4 weeks old 68c, cash with order 66c. May 15 to June. Day-old minimum 20; under 100, 5c each. Started 30 minimum. Shipped, express only. Day-olds shipped Parcel Post. Prices FOB. Johnson Turkey Hatchery, KF-1336, Semola, Okla.

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Pekin Ducklings, prepaid, 100% live arrival, 15—\$5.25; 30—\$9.90; 60—\$18.60. Tejas Poultry Ranch, Rt. 2, Box 165, Texarkana, Tex.

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Mammoth Pekin Ducklings—Rapid growers, proven money makers. 25—\$7.50; 50—\$14. China goslings, 10—\$13.80. Toulouse, 10—\$17.50. Free information. Richardson, Brownell, Kan.

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(Continued on next page)

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Strawberry Plants—Hardy northern grown, double inspected Dunlap, Beaver, Blakemore, Premier, Giant Robinson, Bellmar 200—\$2.00; 500—\$4.50; 1,000—\$8.50. Giant Gem, Streamliner, Minnesota 1166 everbearing, 100—\$2.25; 500—\$10.00. Fresh Plants, prompt shipment. Iowa Nursery, Farmington, Ia.

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Windbreak Special. Very rapid growing Pine. Banks Pine transplants 4-yr. 16 to 20 in., 50 for \$4.00; 100 for \$6.00; 3-yr. seedlings 10 to 15 in., 50 for \$2.50; 100 for \$4.00. Cash with order. Shipped express collect. Strick & Allyn Co., Rt. 1, Elmira, N. Y.

Vegetable Plants—Large, stalky, well rooted, hand selected. Cabbage—Wakefields, Dutch, Copenhagen, 200—75c; 300—\$1.00; 500—\$1.25; 1,000—\$2.25. Onions—Crystal Wax, Yellow Bermuda, Sweet, Spanish, 300—\$5c; 500—\$1.25; 1,000—\$2.00; 2,000—\$3.50. Tomatoes—Earliana, John Baer, Marglobe, Rutgers, Stone, 200—75c; 300—\$1.00; 500—\$1.50; 1,000—\$2.75. Pepper—California Wonder, Chinese Giant, 50—40c; 100—75c; 300—\$2.00. All postpaid. Satisfaction guaranteed. Culver Plant Farms, Mt. Pleasant, Tex.

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PATENTS AND INVENTIONS

A. H. Sturges, 317 Sunderland Bldg., Omaha, Nebr. Registered Patent Attorney, U. S. Patent Office. Procedure information, evidence of invention form and patent book sent on request.

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Free Farm Catalog—packed with values—send today for your 1953 Trading Post bargain catalog. Over 60 pages of savings on goods for farm and home. Barbed wire and fencing, paints and varnishes, agricultural chemicals, tools, hardware, household goods, and thousands of items at "below-market" prices. Free bonus coupons and free gifts. This bargain catalog sent to you absolutely free. The Trading Post has a warehouse near you! Your free catalog will be rushed to you; just write Trading Post, 1800 Q Burlington, North Kansas City, Mo.

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	\$23.50	\$23.50	\$35.80
Hogs	21.10	21.75	17.25
Lams	24.50	23.00	31.00
Hens, 4 to 5 lbs. ....	.27	.28	.24
Eggs, Standards .....	.43	.42 1/2	.34
Butterfat, No. 1 .....	.56	.58	.67
Wheat, No. 2, Hard	2.46 1/2	2.44 1/2	2.53 1/2
Corn, No. 2, Yellow	1.59	1.59 1/2	1.97
Oats, No. 2, White .....	.89	.92	1.03 1/2
Barley, No. 2	1.43	1.41	1.46
Alfalfa, No. 1	—	45.00	35.00
Prairie, No. 1	—	38.00	26.00



In the Field

MIKE WILSON

TOPEKA, KANSAS

Livestock Editor

The editor would like to correct the date published in our sale date column. **THE LATE-SELIN ABERDEEN-ANGUS SALE** should read April 7, 1953, instead of April 11, 1953. Please accept our apologies.

Hutchinson will play host to the 13TH ANNUAL NATIONAL POLLED SHORTHORN CONGRESS, at the State Fairgrounds April 20 and 21. Several hundred breeders from over the nation will show cattle at this meeting, according to Allan C. Atlason, secretary of the American Shorthorn Breeders' Association. Prizes totaling more than \$3,000 will bring top Polled Shorthorn cattle from well-known herds. John Hudson, manager of world-renowned Avenel Farms, at Bethesda, Md., will judge the show. Annual banquet and meeting for the society will be held in the Hotel Stamey here on evening of April 20. People from both the west and east coasts, from the southern and northern states will attend. Visitors from Australia and South America will be guests.

C. O. Heidebrecht, secretary-treasurer of the KANSAS STATE MILKING SHORTHORN SOCIETY writes our office about the following dates for the district shows: Northwest Dist.—May 4, Hill City; Southwest Dist.—May 5, Dodge City; South Central Dist.—May 6, Hutchinson; North Central Dist.—May 7, Herington; Northeast Dist.—May 8, Topeka; Southeast Dist.—May 9, Erie. This society has chosen the last Friday in October as sale date. Present officers of the Kansas State Milking Shorthorn Society are: Ezra L. Wolf, Quinter, president; Howard R. Lucas, Macksville, vice-president, and C. O. Heidebrecht, Inman, secretary-treasurer.

J. LAWRENCE BYLER, owner of Pine Crest Dairy Farm, Wellington, is owner of a Registered Jersey cow that recently completed a production record with American Jersey Cattle Club. Her production was 10,014 pounds milk containing 489 pounds butterfat at age of 2 years and 4 months. Advancer Record June's record is equivalent to 12,447 pounds milk containing 608 pounds butterfat for mature age production.

LLOYD SHULTZ, Pretty Prairie, is owner of Onabank Triune Duke, registered Holstein-Friesian cow which has completed a 365-day production test with the Holstein-Friesian Association of America. She produced 493 pounds of butterfat and 12,250 pounds of milk testing 4.0 per cent, and was milked 2 times daily. Her record averages about 16 quarts of milk daily for the test period.

EARL MARTIN & SON'S Duroc sale, South St. Joseph, Mo., on February 6, averaged about \$100 per head on bred gilts. Fall boars, 8 head selling, averaged \$73 with a top of \$100. Fall gilts sold at more conservative prices. Sale top was \$170. Second top was \$150. Kansas buyers purchased 9 head; 2 head went to Illinois and 1 to Nebraska. Missouri buyers bought the remainder of the sales offering. Bert Powell was auctioneer.

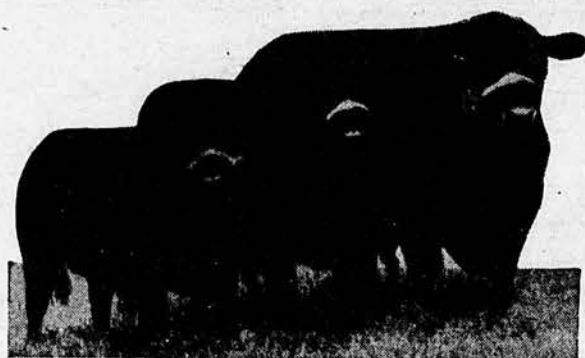
One of the best sales to be held in Kansas recently was the KANSAS POLLED HEREFORD bull sale, held at Norton, March 23. Sixty-six bulls sold for \$25,075 to average \$425. Top bull was Lot 7, NE Advance Domino 11th, consigned by New Eden Polled Herefords, Wilmore, and sold at \$1,480 to F. B. Leggett, Danville, Va. Show champion and 2nd top bull was Lot 64, ALF Mixer Return 71th, consigned by John M.

Northeast Kansas Aberdeen-Angus Breeders' Assn. 11th Annual Sale of REGISTERED ANGUS CATTLE

April 16, 1953

Horton, Kansas

in the Civic Center Barn at 12:30 P. M.



16 BULLS

Strong aged, rugged, well bred with quality.

28 BRED HEIFERS

Carrying the service of noted bulls with all popular lines of breeding represented. They are a fine group and suitable for foundation females.

55 BEAUTIFUL OPEN HEIFERS

Many are show heifers, sired by great bull and from popular families.

20 COWS

With calves, or due to calve assuring an early return.

11 COMMERCIAL OPEN HEIFERS

For catalogs and information contact

WAYNE UKENA, Sale Mgr., Sec., Everest, Kan.

The Northeast Kansas Aberdeen-Angus Breeders' Association

Ray Sims, Auctioneer

PENNEY & JAMES 11TH ANNUAL Aberdeen-Angus Production Sale

Sales pavilion at the HOMEPLACE just east of HAMILTON, MO. — MONDAY, MAY 4

Selling 20 Bulls and 50 Females



EILEENMERE 999-800048

Four sons and 15 of his daughters sell and many females carry his service.

other top families. Many of

Four bulls selling are sired by Eileenmere 999th, making them half brothers to many famous bulls including the reserve junior champion at the 1952 International; 5 by the "Wonder" bull Eileenmere 487th; 3 by Homeplace Eileenmere 52nd; 2 by the reserve grand champion at 1951-1952 International Homeplace Eileenmere 999-35th; 2 by Homeplace Eileenmere 115th; 2 by Homeplace Eileenmere 500th; 2 by Homeplace Eileenmere 104th; 8 of these bulls are double bred thru Eileenmere 487th. Also listed is our many times champion 2-year-old show bull. He is sired by Eileenmere 999th.

Females and Their Families—The offering consists of many females from our show herd and they are "TOPS." They represent a strong concentration of the blood of our "Wonder" bull, Eileenmere 487th. We sell 2 great Eriannas, a Gammor from the same heifer as our \$38,000 heifer in our last sale, Edwinas. Maid of Bommers, a Cherry Blossom by Eileenmere 487th. The females bred to the "Top" herd sires at the Homeplace.

ATTEND THE EILEENMERE SALES CIRCUIT, MAY 4-5-6-7

PENNEY & JAMES, Owners, Hamilton, Missouri

Orin L. James, Manager Eugene Schubert, Herdsman
Dr. Don Wade, Resident Veterinarian and Cattle Superintendent
For sale catalog write to J. B. McCORKLE, Sales Manager, Smithville, Missouri
Aucts.: Roy Johnston & Ray Sims Bert Powell & Mark Dempsey for this publication.

Dispersal Sale of

Reg. Angus

April 28

at 12:30 P. M.

3 Bulls

90 Females, many with calves.

Best of breeding.

Sale to be held on farm located 1 mile south of

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FOR SALE

Aberdeen-Angus Cattle

Serviceable-age bulls, younger bulls, cows with calves and heifers.

UNRUH ANGUS FARM, Moundridge, Kansas

REGISTERED

ABERDEEN-ANGUS

Herd Sires: Homeplace Eileenmere 181 by the "999" Black Peer 125 of A. V. by Prince Sunbeam 105. Now offering young bulls 14 to 24 months of age. Guaranteed breeders and reasonable prices.

George Hammarlund & Sons
St. Marys, Kansas

REGISTERED ANGUS

Now offering bulls 10 to 18 months.

CHESTNUT & RAILBACK, Quinter, Kansas

HOGS

FOR SALE

Spotted Poland China Fall Boars

\$45.00 without papers.

W. A. Hegle, Lost Springs, Kansas

TOP QUALITY DUROCS

Offering fall boars, fall gilts sired by The 49er.

Red Dutch and Star Velvet. Reasonably priced.

Wt. 225 and up. Write or visit.

Earl Martin & Son, DeKalb, Missouri

Beef CATTLE

THE 20TH SHOW AND SALE
of the
NORTH CENTRAL KANSAS
SHORTHORN BR. ASSN.
Thursday, April 16, 1953
Beloit, Kansas

48 HEAD: 30 Bulls, 18 Females

The bulls are practically all ready for service. Herd bull prospects of the choicest bloodlines. The females range in age from young heifers to mature cows. Rich bloodlines, modern type.

Show at 9 A. M. — Sale at 12 Noon

Judge: William Thorne

For catalog write:

EDWIN HEDSTROM

MARYSVILLE, KANSAS

Bert Powell, Auctioneer

REGISTERED SHORTHORN BULLS

Serviceable-age Bulls, heavy boned and rugged. Grandsons of Calrossie Mercury. Farmers prices. Also bred and open heifers.

CLARENCE H. RALSTIN

MULLINVILLE, KANSAS

POLLED SHORTHORNS

Established — 1907

Banburys over 150 in herd. Cherry Hill—Oakwood—Coronet blood. None better. For sale: One choice young sire. Club calves, bulls and females. Some of all ages. Including the show herd. No public sale. Prices reduced. You can save \$25 to \$100.

BANBURY & SONS

Plevna, Kansas
9 miles southwest of Hutchinson,
then west 14 miles on blacktop.

NATL. POLLED SHORTHORN CONGRESS

April 20-21—Hutchinson, Kansas
One daughter of Oakwood Senator X, son of the International Reserve Champion, and a daughter of Gold Gloster 33rd X, half brother of the 1952 Congress champion bull. Selling in the Hutchinson, Kansas. One 18-month-old bull, one open and one bred heifer.
LOVE AND LOVE, Partridge, Kansas

Dual-Purpose CATTLE

For Sale: Dark Red Polled Milking Shorthorn Bull 2 months old. Grandson of Trixie Queen, world's producing polled cow. Priced to sell. Without reserve. Also younger registered polled bull calves.
W. A. Hegle, Lost Springs, Kansas

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The Trend Is to POLLED SHORTHORNS

Because cattlemen are seeking the quicker-maturing qualities combined with naturally hornless trait of the fastest growing American beef breed. Buy the best from the country's top Polled herds in 16 states.

NATIONAL POLLED SHORTHORN CONGRESS SHOW AND SALE

Hutchinson, Kan. — April 20 and 21

STATE FAIR GROUNDS

75 BULLS — 70 FEMALES

WRITE US FOR SALE CATALOG

AMERICAN POLLED SHORTHORN SOCIETY

Dexter Park Ave. Dept. KF Chicago 9, Illinois

Lewis & Sons, Larned, and sold for \$995 to Alvin Wahl, Gorham.

Vic Roth, Hays, capably managed this outstanding Hereford sale. Sale was conducted by Freddie Chandler and representatives of various livestock presses.

Fifty-eight Herefords were sold in the St. Patrick's Day sale at the **ROBERTS HEREFORD RANCH**, at Quinter, for a total of \$15,065 — average \$258. About half of the bull offering was made up of cows and calves and nearly all females were of short ages. Twenty-three bulls averaged \$327; 35 females averaged \$215. Top bull was Lot 1, RHR Royal Domino 121st, and brought \$620 on the bid of Vollbracht, Grinnell. Top female was Lot 59, Real Princess 62nd and sold to H. G. Hereford Farms, Colby, for \$330. Col. Gene Watson sold the offering.

Two registered Holstein-Friesian herds in Kansas recently completed production tests with the Holstein-Friesian Association of America.

The 16-cow herd owned by **R. L. EVANS & SON**, Hutchinson, had an average of 17 quarts of milk daily for the year, 465 pounds of butterfat and 11,972 pounds of milk testing 3.9 per cent. Milking was twice daily.

The 17-cow herd owned by **LLOYD SHULTZ**, Pretty Prairie, produced an average of 19 quarts of milk daily, and 426 pounds of butterfat and 12,108 pounds of milk on twice-a-day milking.

The **MORRIS COUNTY HEREFORD ASSOCIATION** sale was held at Council Grove, March 18. Fifty-six Herefords sold for a total of \$16,795, to average \$299. Thirty-one bulls averaged \$319; 25 females averaged \$276. Show champion and top bull was Lot 14, consigned by J. J. Moxley, Council Grove, and sold for \$660 to Floyd Welch, Haddam. Show champion and top female was Lot 59, TS Lady Symbol 13th, consigned by Titus & Stout, Cottonwood Falls, and brought \$460, selling to Hazlett and Tasker, Minneapolis, Col. Gene Watson sold the sale. L. C. Akers, Kansas State College, was judge of show.

These **REGISTERED HOLSTEIN-FRIESIAN COWS** in Kansas recently complete production records with the Holstein-Friesian Association of America:

Zarnowski Burke Nellie, owned by Clarence Zarnowski, Halstead. 562 pounds butterfat, 16,281 pounds of milk, 302 days, 2 milkings daily, 3 years 11 months of age.

Collins Farm Burke Ella, Harvey Bechtelheimer, Sabetha, 525 pounds butterfat, 14,566 pounds milk, 357 days, 2 milkings, 6 years 10 months.

Rag Apple Burke Artis, E. A. Dawdy, Salina. 667 pounds butterfat, 17,644 pounds milk, 349 days, 3 milkings daily, 5 years 9 months.

Queen Elsie Inka Payne, Kenneth Benedict, Louisburg. 616 pounds butterfat, 15,875 pounds milk, 314 days, 2 milkings daily, 2 years 8 months.

Dairy CATTLE

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, Neb., Bx. 48, Ph. 1419

REGISTERED JERSEYS

All ages, sired by Dynamo Blonde and Design Wonder Observer.

Marshall Bros., Sylvia, Kansas

REG HOLSTEIN BULL

5 years old.

He is a son of Meierkord Billy Abbecker. Quinn Steenbock, Longford, Kansas

NORTH CREST FARM REGISTERED HOLSTEIN BULL

Whose dam has 4 records above 500 up to 745-lbs. B. F. Price \$150. Can spare some 2-yr.-old heifers and cows. 12 miles west of Manhattan, Kan.

WESLEY NAUERTH, Riley, Kansas

Registered Guernsey SPRINGER HEIFERS

Few 4-H Calves—Bulls.
Hershberger & Son, Newton, Kansas

FOR SALE BROWN SWISS

Extra good Wis. bred. Best bloodlines.
C. L. Goernandt, Aurora, Kansas

A Bull Bargain Spree . . . for '53

It's Shorthorn Time at SALINA

and If You Are Looking for a Good Bull Come to This

13th Annual Mid-Kansas Shorthorn Breeders' SHOW & SALE

Salina, Kansas—Fri., April 10, 1953

Saline County Fairgrounds

Show at 8:30 A. M.

Judge—Russell Cummings, Elizabeth, Colo.

Sale at 12:30 P. M.

Auct.: C. D. (Pete) Swaffar, Tulsa, Okla.



SELLING 69 BULLS, 25 FEMALES

Outstanding commercial and purebred herd bull opportunities. Many of these bulls will be two years of age by sale time and the others will be strong yearlings, ready for heavy service this season. Included are several young tried sires and outstanding sons of top Shorthorn bulls in service in Kansas today.

25 CHOICE FEMALES

Included are 2 cows with calves at foot, one of them with an outstanding bull calf, sired by the \$10,000 Mercury's Jasper 2nd—13 bred heifers, the most outstanding group of herd building and herd replacement females ever offered at Salina—10 choice open heifers. Every one a granddaughter of one of the following two Perth champion bulls, Calrossie Mercury and Calrossie Prince Peter.

Farmers, commercial cattle producers and purebred breeders alike, will like this especially selected lot of cattle of good ages, good bloodlines and outstanding quality . . . consigned by 35 of the most outstanding Shorthorn breeders in the state of Kansas. All cattle are healthy and are fully guaranteed and Tb. and Bang's tested.

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SEWARD, NEBRASKA

Sponsored by

MID-KANSAS SHORTHORN BREEDERS' ASSOCIATION
Arthur Nelson, Pres., New Cambria—Milton Nagely, Vice-Pres., Abilene
Grant Seim, Sec., New Cambria

Mike Wilson for Kansas Farmer

LOOKING FOR A JOB? CLASSIFIED ADS

Tell 125,000 Missouri farmers
you're available — Nuf sed.

10c a word
12 words minimum



THIEMAN'S POLLED SHORTHORN SALE

at the farm just a short distance east of Kansas City, Mo.,
on highway 36 and a few miles west of

Concordia, Missouri

Sale at Farm on

Wed., April 22 — Time, 12 Noon

Our 1952 International Grand Champion female.

SELLING 20 BULLS—Two-year-olds, strong yearlings and a few junior show calf prospects.

10 COWS—With calves at foot.

25 BRED HEIFERS—Mated to one of the top Thieman herd sires.

19 OPEN HEIFERS—Including the 1952 Missouri State Fair grand champion female.

Note.—We are featuring the get and services of sons and grandsons of the International grand champion bull, Killearn Max Juggler. Remember here is your opportunity to buy from a herd that has been 50 years in business producing the best. No herd in the breed has produced and shown as many International champions.

Attend the NATIONAL POLLED SHORTHORN CONGRESS SHOW AND SALE, Hutchinson, Kan., April 20 and 21

For sale catalog and other information, write

MERVIN F. AEGERTER, Sales Manager
SEWARD, NEBRASKA

L. W. THIEMAN, Owner, Concordia, Missouri

POLLED HEREFORD SALE

Cleveland, Kansas

(Kingman County)

April 22, 1953

55 HEAD—25 Bulls, 30 Females

The sires of this offering are: WHR Leskan 2; sire of the \$21,000 Leskan Tone, Plato Domino 44. WHR Leskan A. 29 by WHR Leskan 2 and WHR Leskan A. 1 by WHR Leskan 2. The bulls in this group are all two-year-olds. The heifers are selling open and they are old enough to breed.



REAL PLATO DOMINO Jr. The \$48,500 bull is by the same sire as our WHR Leskan 2.

Write for catalog to

WILLOW CREEK STOCK FARM, Belmont, Kan.

Located 1½ miles south and 1¼ miles east of Belmont, Kansas

JOHN RAVENSTEIN & SON, Owners

BUY MISSOURI POLLED HEREFORDS AT MARYVILLE, MO.—SATURDAY, APRIL 11

Sale will be held at the "71" sale pavilion on U. S. 71 at the south edge of city.



50 Head of "Popular Bred" Polled Herefords Sell

1 Herd Bull Sells—41 Numode Onward, calved 9-18-49, a grandson of Trumold Domino 8th and grandson of Plato Domino 36th on the dam's side. This bull is the John Rice breeding. 8 Young Bulls—One is 18 months old and 7 are 10 months old. 12 Open Heifers sired by 41 Numode Onward. 24 Good Cows, some with calves at side and others pasture bred to the above sire. Some of the cows with calves at side are bred to HHR20 Grand 44th, a son of Domestic Woodrow 120th out of a Domestic 6th dam. This bull purchased in the Halbert & Fawcett recent sale for \$2,100.00. Health—All tested for Tb. and Bang's within 30 days of sale.

WILBERT K. RHEA, HOPKINS, MISSOURI

Write at once for sale catalog to DONALD J. BOWMAN, Sales Manager, Hamilton, Mo. Aucts.: Bert Powell & Donald Bowman Don Chittenden with American Polled Hereford Assn.



Now Is the Time to Own Those Good POLLED HEREFORD CATTLE

at Reasonable Prices

BULLS — FEMALES

FRED W. LAMB & SONS, Macksville, Kansas

(Stafford County)

JOE MAES POLLED & HORNED HEREFORD SALE

Osborn, Kansas April 21, 1953

1 P. M. Selling at the Osborne Sale Pavilion
65 LOTS—17 Bulls, 48 Females

For catalogs write

VIC ROTH, Sale Manager

Box 702, Hays, Kan.

JOE MAES, Owner, Bushton, Kan.
Freddie Chandler, Auctioneer
Mike Wilson for Kansas Farmer

FOR SALE



Servicable age bulls, descendants of our champions from our cow herd that is bred in the purple. If you are in the market for good Polled Hereford bulls, don't fail to pay us a visit. Plain View Farms,
JESSE RIFFEL & SONS, ENTERPRISE, KAN.

DARREL HINKHOUSE POLLED & HORNED HEREFORD SALE

Sale at

Plainville, Kansas April 7, 1953

Plainville Sale Pavilion—1:00 P. M.

62 LOTS—33 Bulls, 29 Females

For catalogs write:

VIC ROTH, Sale Manager

Box 702

Hays, Kansas
Freddie Chandler, Auctioneer
Mike Wilson with Kansas Farmer
Darrel Hinkhouse, Owner, Palco, Kansas

Polled HEREFORD BULLS

For Sale. From 12 to 23 months old, sired by Advancemore 10, half-brother of reserve champion at Ft. Worth. Also Advancemore 10 later on this spring. **IRL TINKLER, Gypsum, Kansas**

Public Sales of Livestock

Holstein Cattle

May 20—East Central Kansas 3rd Annual Holstein Sale, Tonganoxie, Kan. Grover Meyer, Sale Manager, Basehor, Kan.

Aberdeen-Angus Cattle

April 7—Latzke-Sellin Angus Sale, Junction City, Kan.
April 9, 1953—Mid-Kansas Aberdeen-Angus Association, Hutchinson, Kan. Phil Sterling, Secretary, Canton, Kan.
April 16—Northeast Kansas Aberdeen-Angus Association, Horton, Kan. Wayne Ukena, Sale Manager, Everest, Kan.
April 21—Herman J. Steinbuechel Dispersion, Florence, Kan. Sale at J. J. Crowther Sale Barn, Canton, Kan.
April 29—Salina Angus Sale, Salina, Kan. Lloyd Ericson & Gene Sundgren, Sale Managers.
May 1—A-Bar-A Ranch, Encampment, Wyo. Sale at Silver Top Farm, Belton, Mo. H. B. McCorkle, Sales Manager, Smithville, Mo.
May 4—Penney & James, Hamilton, Mo. J. B. McCorkle, Sales Manager, Smithville, Mo.
May 5—Marycrest Farm, Maloy, Ia. J. B. McCorkle, Sales Manager, Smithville, Mo.
May 6—Harken Farms, Osceola, Ia. J. B. McCorkle, Sales Manager, Smithville, Mo.

Hereford Cattle

April 4—John Simpson & Sons, Edgerton, Mo.
April 6—3 Way Hereford Sale, Hutchinson, Kan.
April 8—Wilver Dell Farms, DeKalb, Mo. Sale at South St. Joseph, Mo.
April 14—North Central Kansas Hereford Association, Belleville, Kan. George C. Wreath, Sale Manager, Belleville, Kan.
April 16—Drotting Brothers, Monument, Kan. and Homestead Ranch, Levant, Kan. Sale at Oakley, Kan.
April 17—George Manville & Associates, South St. Joseph, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.
April 22—John Ravenstein & Son, Belmont, Kan.
April 28—Kansas Hereford Sale, Emporia, Kan.
May 4—Marshall County Hereford Breeders' Association, Marysville, Kan. Elmer E. Peterson, Sale Manager, Marysville, Kan.
May 9—Belden & Schuetz, Horton, Kan.
July 11—O'Bryan Polled Herefords, Hiattville, Kan.
September 7—Lee M. Smith, Claremore, Okla. Complete Hereford dispersal.
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 29—Kansas Flint Hills Association, Cottonwood Falls, Kan.
November 4—Lincoln County Hereford Association, Sylvan Grove, Kan.
November 6—Cowley County Hereford Breeders' Association, Arkansas City, Kan.
November 11—W. H. Tonn & Son, Haven, Kan.
December 4—South Central Hereford Association, Newton, Kan.

Ayrshire Cattle

May 7—Kansas Ayrshire Association Sale, Iola, Kan. Dwight E. Hull, Sale Manager, El Dorado, Kan.
May 11—Kansas Ayrshire Association Sale, Garden City, Kan. Dwight E. Hull, Sale Manager, El Dorado, Kan.

Guernsey Cattle

April 13—Missouri Breeders' Association, Columbia, Mo. H. A. Herman, Secretary, 409 Exchange National Bank Building.
May 27—Arthur H. Penner Dispersion, Hillsboro, Kan.

Polled Hereford Cattle

April 4—John Simpson & Sons, Edgerton, Mo.
April 6—Real Plato Domino Polled Hereford Sale, Hays, Kan. Vic Roth, Sale Manager, Hays, Kan.
April 7—Darrel Hinkhouse Polled Herefords, Palco, Kan. Sale at Plainville, Kan. Vic Roth, Sale Manager, Hays, Kan.
April 11—Wilbert K. Rhea, Hopkins, Mo. Sale at Maryville, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.
April 18—Mid West Polled Hereford Association Show and Sale, Deshler, Nebr. Fred C. Duey, Sale Manager, Chester, Nebr.
April 20—Paul & Gladys Molz Polled Herefords, Kiowa, Kan.
April 21—Joe Maes Polled Herefords, Bushton, Kan. Sale at Osborn, Kan. Vic Roth, Sale Manager, Hays, Kan.
May 20—Golden Willow Ranch, Liberal, Mo.
September 28—4E Ranch, Topeka, Kan.
October 2—Frank Matheson, Natoma, Kan., and Jake Reich & Son, Paradise, Kan. Sale at Natoma.

Red Poll Cattle

November 11 & 12—Annual meeting and National Sale, Topeka, Kan. F. A. Sloan, Secretary, 3275 Holdrege St., Lincoln, Nebr.

Shorthorns and Polled Shorthorns

April 6—Missouri Breeders' Association, Sedalia, Mo. Rollo E. Singleton, Secretary, care State Department of Agriculture, Jefferson City, Mo.
April 7—Nebraska and Kansas Breeders, Superior, Nebr. Mervin F. Aegerter, Sales Manager, Seward, Nebr.
April 16—Shorthorn and Polled Shorthorn Breeders Show and Sale, State Fairgrounds, Hutchinson, Kan. Mervin F. Aegerter, Sales Manager, Seward, Nebr.

Polled Shorthorn Cattle

April 20 & 21—National Polled Shorthorn Congress Show and Sale, Hutchinson, Kan. American Polled Shorthorn Society, Sales Managers, 7 Dexter Park Ave., Chicago 9, Ill.
April 22—Thiemans, Concordia, Mo. Mervin F. Aegerter, Sales Manager, Seward, Nebr.

Shorthorn Cattle

April 10—Mid-Kansas Breeders' Association, Salina, Kan. Mervin F. Aegerter, Sales Manager, Seward, Nebr.
April 16—North Central Kansas Breeders' Association, Beloit, Kan. Edwin Hedstrom, Secretary, Marysville, Kan.

Duroc Hogs

April 4—John Simpson & Sons, Edgerton, Mo.

Corriedale Sheep

July 27-28—All-American Corriedale Breeders Show and Sale, Columbia, Mo. Rollo E. Singleton, Secretary-Manager, 108 Parkhill Ave., Columbia, Mo.

Dorset Sheep

April 21—Leonard Steward, Grenola, Kan. Sale at Winfield, Kan.

Suffolk Sheep

June 8—Warrick & Rock, Oskaloosa, Ia.

Sheep—All Breeds

May 16—Valley View Ranch 4-H and FFA Lamb Sale, Haven, Kan.
June 19-20—Midwest Stud Ram Show and Sale, Sedalia, Mo. Rollo E. Singleton, Sales Manager, care State Department of Agriculture, Jefferson City, Mo.

April 18

Will Be Our Next Issue

Ads for the Classified and Livestock Section must be in our hands by

Tuesday, April 7

If your ad is late, send it in Special Delivery to 912 Kansas Ave. Kansas Farmer, Topeka, Kan.

Beef CATTLE

REAL PLATO DOMINO SALE

April 6, 1953—Hays, Kan.

Selling 40 Head 20 BULLS — 20 FEMALES

HAYS SALE PAVILION

Selling the offspring of Real Plato Domino the 1950 National Champion. Herd bull prospects and top females being offered.

Write to

VIC ROTH, Sale Manager

Box 702

Hays, Kansas

Freddie Chandler, Auctioneer
Mike Wilson for Kansas Farmer

REG. HEREFORD BULLS

10 to 18 months old. Sired by: OJR Jupiter Star 12th. Domino Lad KTO 111th and F. Elation 22. Too range and herd bull prospects.

WAITE BROS., Winfield, Kansas

High Quality POLLED HEREFORD BULLS OF SERVICEABLE AGES



Sired by Polled sons of C. K. Cadet bloodlines intensely Polled thru 40 years of constructive breeding.

REASONABLY PRICED

GOERNANDT BROS.

Ames, (near Concordia) Kansas

PAUL'S POLLED HEREFORD SALE

Kiowa, Kansas

April 20, 1953

1:00 P. M.—Sale at the ranch.

Selling 46 Lots: 22 Bulls, 24 Females

For sale catalogs and information write

VIC ROTH, Sale Manager

Box 702, Hays, Kansas

PAUL & GLADYS MOLZ, Owners

Kiowa, Kansas

Freddie Chandler, Auctioneer

Mike Wilson for Kansas Farmer

POLLED HEREFORDS FOR SALE

Yearling bulls, bull calves 6 to 12 months old, yearling and two-year-old heifers. Sired by Advance Choice 16th and Advance Domino 8th. Priced reasonable. Write or see our herds.



MARTIN I. SHIELDS & SONS

Lincolnville, Kansas

Rt. 1, Near Hwys. 50N and 77

Midwest Polled Hereford Assn. Show & Sale

April 18, 1953

Deshler, Nebraska

72 HEAD—47 Bulls, 25 Females

Contact Jay Beaver, Deshler Sales Co., Deshler, Nebr., for tickets and reservations for the banquet and business meeting at 7:00 P. M. on April 17.

For sale catalogs and information write to

FRED C. DUEY, Chester, Nebr.

Judge: George Cummings, Amherst, Colo.

Auctioneer: Charles Corkle

Mike Wilson for Kansas Farmer

FOR SALE

Polled Hereford BULLS

Proven sire 4 years old. Carlos Mischief-Mischief breeding. Other bulls 7 to 20 months old. ALF Beau Rollo 47th and Lamplighter breeding.

GRAND VIEW STOCK FARM

POLLED HEREFORDS SINCE 1908.

O. J. Shields, Lost Springs, Kansas

SHEEP

DORSET SHEEP PRODUCTION SALE

April 21, 1953

At Winfield, Kansas

40 Reg. Ewes — 20 Reg. Rams
Try a Dorset ram for early lambs

For catalog write:

LEONARD STEWARD

Grenola, Kansas

3-WAY HEREFORD SALE

MONDAY

April 6, 1953

Hutchinson, Kansas

12:00 NOON

CENTRAL SALES PAVILION

Selling 77 Head

3 BULLS — 43 COWS AND BRED
HEIFERS — 11 OPEN HEIFERS

Featuring the get and the service of the following sires: CK Cascade 78—CK Cascade 6—CWR Helmsman 2. Many of the females carry the services of these sires. There are some real foundation females in this offering. For catalog address:

Gene Watson, Auctioneer, 2001 N. Jackson, Hutchinson, Kan.

Owners: ED L. CROOK and CHAS W. RAGLAND, Hutchinson, Kan.

125 HEAD SELL IN WILVER DELL FARMS REGISTERED HEREFORD REDUCTION SALE

Sale at 12 Noon in the Purebred Livestock Sales Pavilion, just back of Transit House in

SOUTH ST. JOSEPH, MO. ON WEDNESDAY, APRIL 8

Due to the recent illness of Walter Head it is necessary to greatly reduce this herd.

It is a Real Opportunity for Commercial Men,
Farmers and Breeders.

60 Head of Good Age Mature Cows Sell, several with calves at side.
15 Head of 4-year-old Bred Cows.
15 Head of 3-year-old Bred Cows.
15 Head of 2-year-old Heifers, some bred, some open.
25 Head of Coming Yearling Open Heifers.

1 Herd Bull—LVE Helmsman 53rd, a 5-year-old son of WHR Helmsman 4th, bred by Longview Farm, Lee's Summit, Mo. Females sired by and bred to some of the best best bulls of the breed.

Health—All tested for Tb. and Bang's within 30 days of sale.

WALTER HEAD, Owner

Write today for sale catalog to

KENNETH PIEPERGERDES, Farm Mgr., DeKalb, Mo.

Auctioneers:—F. Chandler and Don Bowman Bert Powell with this publication.
Clerks—Mrs. Donald Bowman and Mrs. Robert Eklund

GEORGE MANVILLE

REG. HEREFORD DISPERSION

at the Purebred Livestock Sales Pavilion, just back of Transit House, in

South St. Joseph, Mo., — Friday, April 17

65 HEAD SELLING

Due to my recent illness the doctor has recommended that I disperse my herd. Therefore you will have an opportunity to buy the herd that I have worked years building up.

2 HERD BULLS—Symbol WHH 21, calved April 16, 1949, and Domino Boy 5th, calved February 26, 1946; 1 Coming Yearling Bull. 22 Cows, mostly good ages, some with calves at side, balance to calve this spring and summer.

5 Bred Heifers 6 Open Heifers

SUPER ANXIETY, WHR, BLANCHARD, REAL PRINCE DOMINO AND ASTER BREEDING

GEORGE MANVILLE, Owner, DEARBORN, MO.

Mr. Manville has invited two of his neighbors who are Hereford breeders to put cattle in this sale. Mr. Duncan Ray of Dearborn, Mo., will consign—5 Bulls and 5 Females of GRH Blocky Aster and Domino breeding. Mr. Stalker of Faucett, Mo., will consign 4 Bulls and 3 Females. Onward Vagabond and Double Intense breeding. All cattle tested for Tb. and Bang's within 30 days of sale date.

Write now for Sale Catalog to

DONALD J. BOWMAN, Sale Manager, Hamilton, Missouri

Auctioneer: Col. Freddie Chandler, Chariton, Iowa

CLOSE-OUT SALE OF 25 BULLS

YEARINGS—TWO- AND THREE-YEAR-OLDS

These bulls are rough fed, not pampered, for rugged, dependable service. Sired by H. Lassie's 21st by Lassie's Tone 8th and FRC Rupert 3rd, a grandson of Hazford Rupert 25th, and the two high Register of Merit cattle raised by Robt. H. Hazlett. These bulls are of good big smooth rugged typey Hazlett-cows. Priced reasonable.

We have bred Herefords since 1922. Come see us.

P. F. HANSEN, Hillsboro, Kansas

Rupert Tone 13 2244522	*Hazford Rupert 25 1209784	*Hazford Rupert 1209784
Mary Tone 1546218	*Izotone 1567375	*Hazford Tone 1093542
WHR Star Domino 2198859	Minette 993242	*Bocardo 6th Tonette 2d
Dream 1652706	Prince Domino 4 1480000	Beau Gudgell Oma
	Brand's Anxious 75 1871775	*Prince Domino Belle Domino 6
	*Hazford Tone 1093542	Superior Mischief 21
	Manoh 1294648	Brand's Donaldess 13
		*Bocardo 6 Tonette 2
		Hazford Bocardo 8
		Bocardo Mischief

Here Is Low-Cost Advertising!

ONLY 10c A WORD

Kansas Farmer has 118,311 subscribers, and reaches an average of over four out of every five farm homes in the state. It is printed twice each month on the first and third Saturday. The Classified rates are:

Regular Classified—10c a word (12 words Minimum)
Display Classified—\$9.80 a column inch
\$4.90 a half inch

(Black Face Type used in these ads but no cuts)

Mail Your Ad to

KANSAS FARMER

2 Kansas Avenue

Topeka, Kansas

Duttlinger HOMESTEAD SALE

Oakley, Kansas

April 16, 1953

11:00 A. M. — Oakley Livestock Sales Pavilion

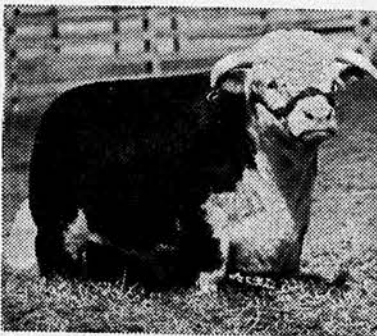
50 SERVICEABLE-AGE BULLS
70 BRED AND OPEN HEIFERS

The entire offering are young useful cattle, they are the kind that have been bred to produce weight for age, and utilize roughage for economical gains. This factor is becoming more important in the beef producing business, in behalf of profits.

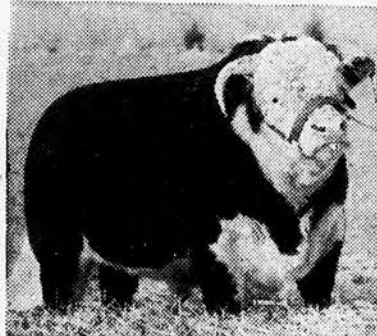
The service and get of the following bulls sell:

HC Larry Domino 92—Baca R. Domino 82—Dandy Domino 3—Baca Domino 25—Dandy Domino 108—MW Larry Domino 168—Baca Lad Dandy Tredway 4.

The get and service of these bulls sell:



HC LARRY DOMINO 92



BACA DOMINO 25

For catalogs write

DUTTlinger BROS., Monument, Kan.
HOMESTEAD HEREFORD RANCH, Levant, Kan.

Mike Wilson for Kansas Farmer

Buy United States Savings Bonds Today

NCK HEREFORD ASSOCIATION 14th ANNUAL SHOW AND SALE BELLEVILLE, KANSAS



Tuesday, April 14, 1953

SHOW AT 9:30 A. M.

Dale Morton, Rexford, Kan., Judge

SELLING 75 HEAD OF CHOICE REGISTERED HEREFORDS

45 Bulls—mostly of serviceable age
(Includes some real herd bull prospects.)

30 Females—bred and open heifers, and a few cows with calves

CONSIGNORS

ANDERSON HEREFORD FARMS, Portis
ARBUHNOT BROS., Haddam
H. H. BLAIR, Barnard
L. M. BLAKE & SON, Oak Hill
BOYD BURGE, Republic
BOYD R. BURGE, Jr., Republic
CLARK CALAHAN, Burr Oak
THOMAS DAHL, Webber
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PERRY GRIFFITH, Beloit
WALTER L. HADLEY, Portis
A. R. HANDLEY, Narka
JOSEPH HAJEK, Odell, Nebr.
WENDELL M. INTERMILL, Mankato
ELMER L. JOHNSON, Smolan
WILLIS E. KEIL, Concordia
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ELMER E. PETERSON & SON, Maryville
HAL RAMSBOTTOM, Munden
L. N. & E. O. Rasmussen, Villet
RESE BROS., Salina
CHAS. RIZEK, Munden
LEWIS A. RIZEK, Munden
ROBERT RIZEK, Belleville
WALTER M. SCHNELE, Mahaska
STANLOT ACRES, Belleville
CARL M. SWENSON, Concordia
EMIL L. SWENSON, Concordia
T. L. WELSH, Abilene

For catalog and information write

GEORGE C. WREATH, Sale Manager, BELLEVILLE, KANSAS

Sale sponsored by the

NORTH CENTRAL KANSAS HEREFORD ASSOCIATION

Gene Watson: Auctioneer



THE TANK TRUCK



This Spring make **SURE**—
Treat your car to

CONOCO "Spring Tonic" Service!

More than just an oil change—

A COMPLETE "SPRING TONIC" FOR YOUR CAR

- 1 Free Battery Check-Up.** Your Conoco Mileage Merchant will clean battery terminals and make sure your battery is in top operating condition.
- 2 Free Radiator Service.** He'll tighten hose connections, flush the radiator you wish and see that your entire cooling system is set for warm-weather driving.
- 3 Bumper-to-Bumper Lubrication.** Using Conoco's special Chek-Chart for your make of car, the Conoco expert will get to *every single* lubrication point assuring smooth, squeak-free riding. And he'll replace winter-worn transmission and rear axle lubricants with correct *Spring-Grade* Conoco lubricants for quiet wear-free operation.
- 4 Drain and Refill with Conoco Super Motor Oil.** While the engine is hot he'll drain out your gritty winter-worn oil. He'll recondition air and oil filter and then, most important of all, he'll refill your crankcase with the right grade of Conoco Super—the motor oil that Oil-Plates metal surfaces to help your engine eat less—run better—live longer!

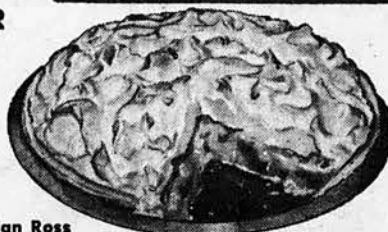
50,000-MILE TESTS PROVE THAT CONOCO HELPS ENGINES

Eat Less—Run Better—Live Longer

50,000-mile road tests of grueling desert driving, with 1000-mile oil changes and proper filter service, proved that engines lubricated with CONOCO Super MOTOR OIL delivered gas mileage 99.41% as good for the last 5000 miles as for the first 5000. And—engines showed average wear less than 1/1000 of an inch on cylinders and crankshafts! PROOF that CONOCO Super MOTOR OIL, with Oil-Plating®, helps engines eat less gasoline and oil—run better—and live longer!

CONOCO Super IS A HEAVY-DUTY OIL!

AMBER PIE



by Mrs. Lillian Ross
Route No. 4—Independence, Kansas

2 cups sour milk or buttermilk	2 beaten egg yolks
1 cup sugar	1 tablespoon vinegar
3 tablespoons flour	1 cup raisins
1 tablespoon butter	1 teaspoon cinnamon
1/4 teaspoon salt	1 teaspoon allspice

Mix flour, sugar, spices and salt. Add milk, egg yolks, butter and vinegar; cook until thick. Add raisins and cook 3 minutes more. Put in baked pie shell and top with meringue made from the two stiffly beaten egg whites and two tablespoons sugar. Brown in oven 10 to 12 minutes at 325°.

SHEARS FOR RECIPES!

Send your favorite recipes to Mrs. Annie Lee Wheeler, Dept. E, Conoco Cafeteria, Ponca City, Oklahoma. A \$7.50 pair of Wiss Pinking Shears awarded for every recipe published with your name. All recipes become property of Continental Oil Company.



TALL GRASS STICK

"When mowing tall grass fast, this second grass stick or rod kicks grass over so it will not interfere on the second round", says John R. Porter, Hobson, Montana. Made in shape shown, with bottom plate 4" long, tapering into S shape. Bore two holes in shoe; put S in one hole, use other hole to bolt plate to shoe.

SAWS FOR IDEAS!

Send your original ideas to The Tank Truck, Dept. E, Continental Oil Company, Ponca City, Oklahoma, and get a genuine \$10.25 D-15 Henry Disston Hand Saw for every idea that's printed!

CONOCO Super IS
A HEAVY-DUTY OIL!



CONOCO

YOUR
CONOCO MAN

Has a Full Line of Farm Products Including:

Conoco Gasolines	Conoco Pressure Lubricants
Conoco Kerosene	Conoco HD Oil
Conoco Tractor Fuel	Conoco Transmission Oil
Conoco Diesel Fuel	Conoco Super Motor Oil

CONTINENTAL OIL COMPANY