

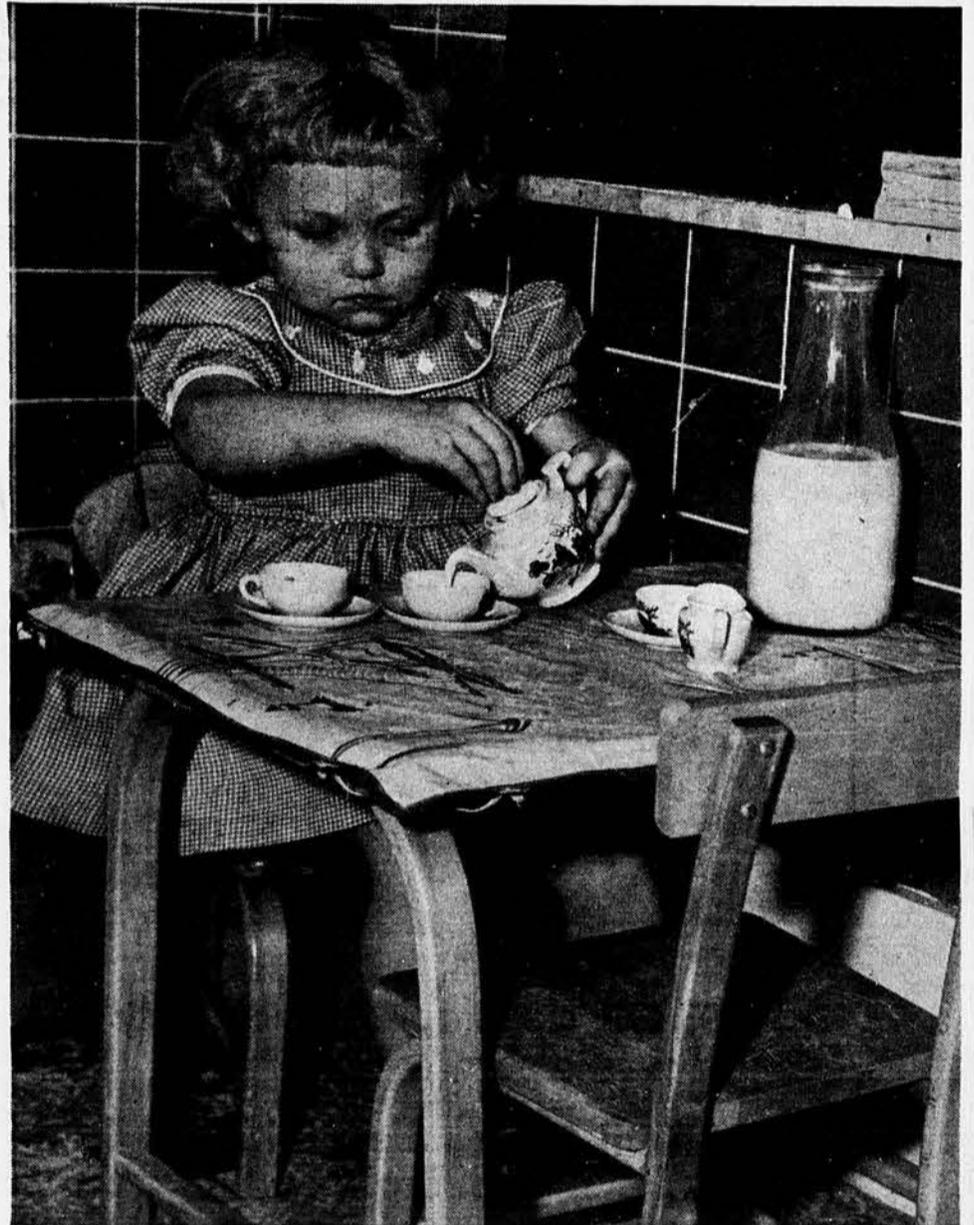
Kansas Farmer

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Cap. 12



CAMPAIGN on Bang's disease was instigated by Mrs. Edwin Bruey when she was president of Country Cousins unit in 1952. Mr. Bruey aided veterinarian test cows on every member's farm



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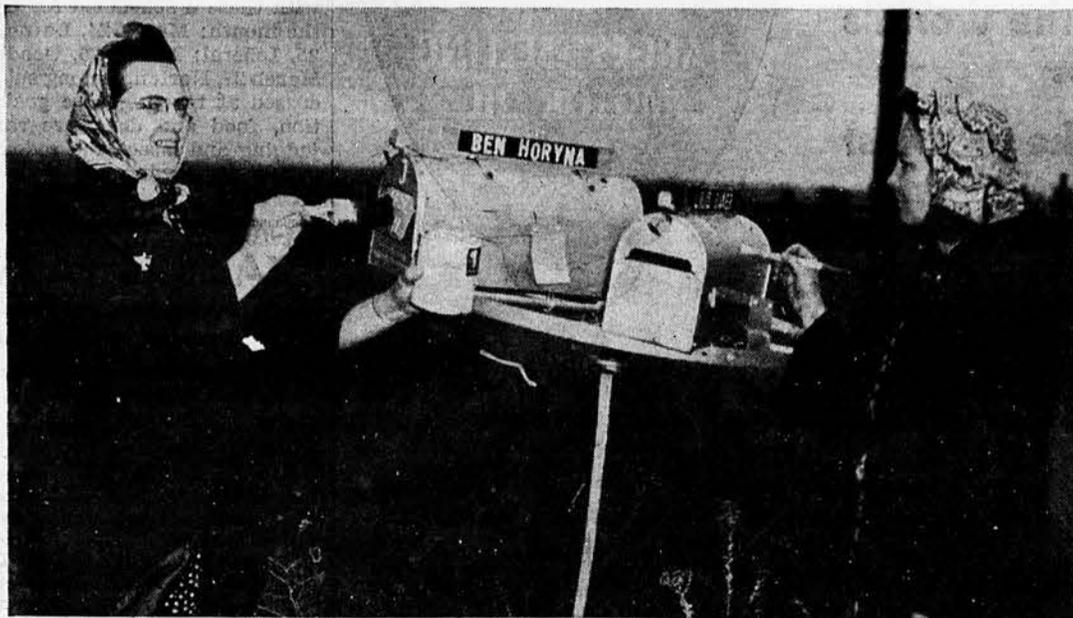
Nothing Daunts Country Cousins

... These Harper county folks are making their community a better place to live

IT DOESN'T DO much good to know facts about things if you don't put those facts to work," says Mrs. Edwin Bruey, of Harper county. "Putting facts to work," was the policy she followed when, in 1952, she was elected president of the Country Cousins Home Demonstration Unit.

After the unit had completed a study project on "Undulant Fever Versus Safe" [Continued on Page 19]

FAMILIES of members of Country Cousins Home Demonstration Unit, in Harper county, now have safe milk supply due to campaign on Bang's disease. Here Kathryn Elaine Bruey, daughter of Mr. and Mrs. Edwin Bruey, enjoys a milk party.



POSING in a near gale and rainstorm, Mrs. Ben Horyna, left, and Mrs. Kenneth Baker, show how members of Country Cousins unit carried on campaign to put well-painted and well-marked mailboxes in their community.

- What Comes Out of Farm Shops..... Page 4
- Wheat Price Crack-Down?..... Pages 6 and 40
- See What They Do With Pastures!..... Page 14

FOR 50 YEARS THE GREATEST NAME IN MOTOR OIL



TODAY—

**THE SUPER
DETERGENT OIL**

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**THE OIL THAT
DRASTICALLY CUTS
ENGINE WEAR**

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**THE OIL THAT
SAVES OIL**

★
**THE WORLD'S
LARGEST-SELLING
MOTOR OIL**

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for motor cars...

FIRST OIL to fly...flew with Wright
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FIRST CHOICE of pace-setters...the
world's fastest car...the world's
fastest speed boat...

FOR HALF A CENTURY the greatest
name in engine protection on
land, water and in the air.

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**Why Accept Less for Your Car or
Farm Equipment!**



For top protection for your farm
engines insist on Mobil Farm
Products—endorsed by 72 lead-
ing farm equipment builders.
Look for the familiar red truck!

*Mobiloil—Suitable for API service
designations ML, MM, MS, DG

Call In Your Mobilgas-Mobiloil Man!

Sheep Shearing Schools Soon



Ed Warner

Instructor of a sheep shearing course
for Kansas in March is Ed Warner,
Chicago, nationally-known instructor.
He will be assisted by Kansas State
College Extension animal husbandry-
men Lot Taylor, Wendell Moyer and
V. E. McAdams and county agents.

Here are schedules for schools,
limited to about 15 students each: To-
peka, March 23 and 24; Newton,
March 25 and 26, and Beloit, March 27
and 28. Instruction includes tying and
handling fleeces, by a representative of
the Midwest Wool Marketing Associ-
ation.

Harry Dodge Is Dairy Month Chairman

Chairman of the 1953 June Dairy
Month campaign is Harry E. Dodge,
Topeka, secretary of the Kansas State
Dairy Association. He also is manager
of the American Dairy Association's
activities in Kansas.

Purpose of Dairy Month is to stimu-
late more use of dairy foods, to main-
tain identity of dairy foods, to encour-
age greater production, to promote a
better public understanding of the
dairy industry and its products. Theme
of campaign is "Dairy Foods—Nature's
Goodness at its Best."

Hold Grain Schools

Grain judging schools are now under-
way in Kansas. Four have been held,
with these 4 scheduled for the last of
the month: March 24, Larned; March
25, Liberal; March 26, Goodland, and
March 27, Norton. Among subjects dis-
cussed at meetings are grain sanitation,
food and drug program, grain
judging and insect and rodent control
in country elevators.

KANSAS FARMER

Continuing Mail & Breeze

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Tough jobs prove

THEY PULL WHERE OTHERS WON'T!



Super-Sure-Grip—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio



WHATEVER YOUR MAKE of tractor, traction begins right down on the ground, where tires slip—or GRIP. And it's right down there that SUPER-SURE-GRIPS, by Goodyear, prove they're the best workers on the farm!

Because they P-U-L-L where others won't—because they wear longer—SUPER-SURE-GRIPS are the overwhelming choice of farmers who work their own fields. No other tractor tire is even a close second—as survey after survey proves!

SUPER-SURE-GRIPS cost no more—they're your best insurance for getting work done on time! So why not get the extra P-U-L-L they'll give your tractor? Goodyear, Farm Tire Department, Akron 16, Ohio.

WHY GOODYEARS GIVE YOU "THE GREATEST PULL ON EARTH"



1. RULER-STRAIGHT LUGS come closer together at shoulders—and so take wedge-like bites that hold soil in place—to give Goodyear tires greater grip.



2. O-P-E-N C-E-N-T-E-R pioneered by Goodyear. Farm experience proves it bites deeper, sharper—pulls better—when combined with straight lugs!



3. LONG EVEN WEAR—because Goodyear straight lugs work against the soil evenly, they wear evenly, roll smoothly on the road, last longer.

FIRST in Traction! • FIRST in Long Wear! • FIRST in Popularity!

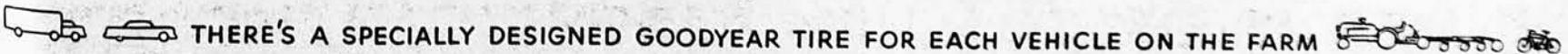
GOODYEAR

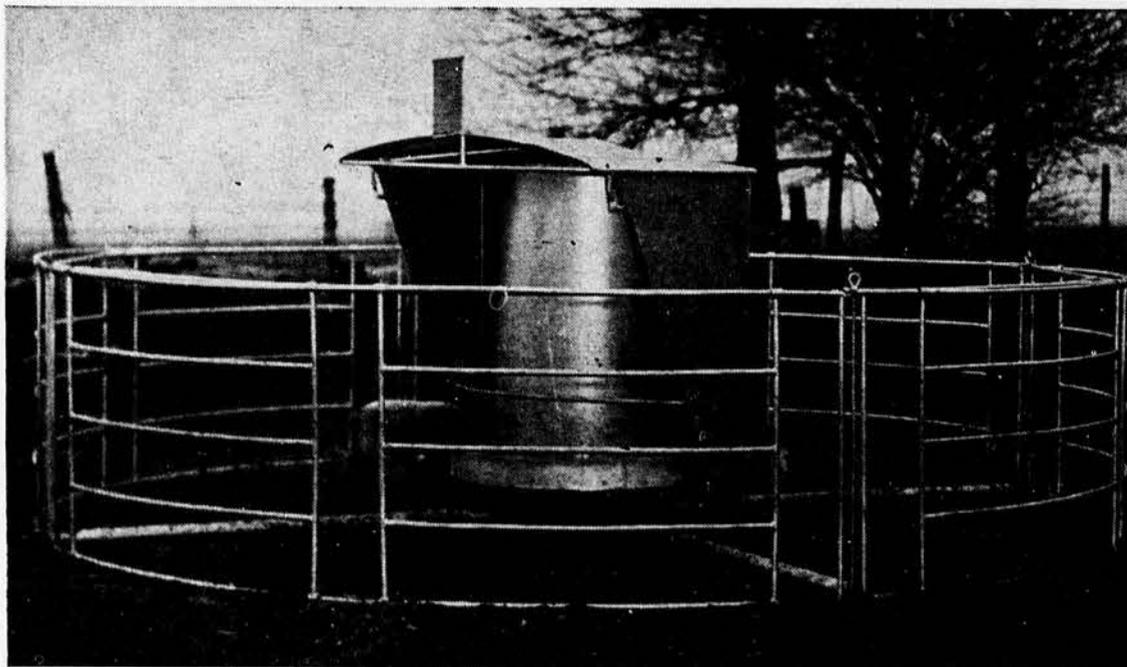


America's Strength is in the Land—Support your Soil Conservation Program

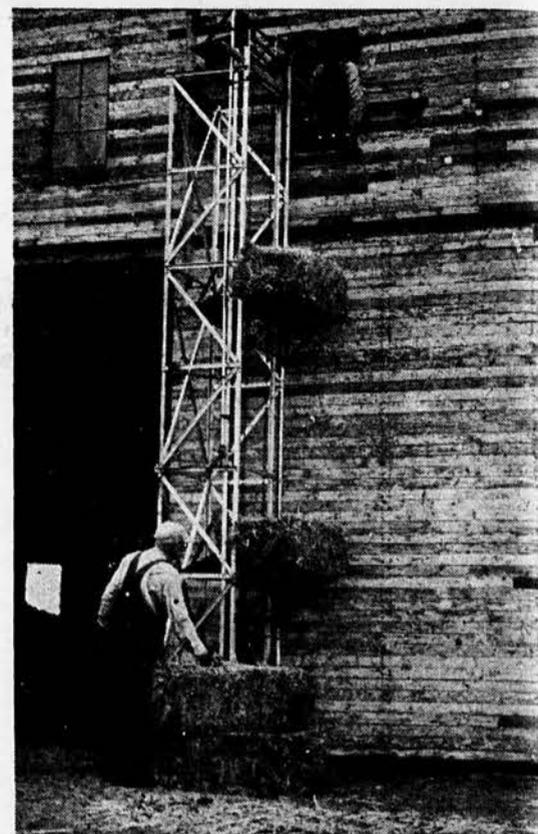
Super-Sure-Grip Tractor Tires

THERE'S A SPECIALLY DESIGNED GOODYEAR TIRE FOR EACH VEHICLE ON THE FARM





THIS ALL-METAL creep-feeder, designed and built by Mr. Cusenbary, can be used for sheep or calves. Size of vertical entrance slots are adjustable. Panels can be swung open to reach feeder in center.



HANDLING BALED hay in cramped space can be done with this automatic bale elevator, designed and built by C. H. Sheldon and son, Dale, of Kingman county.

Just See What Comes Out of Farm Shops!

By Dick Mann

KANSAS is blessed with a lot of good farm mechanics. Men who can go into their farm shops and do anything from making major repairs to designing and building machinery or equipment.

And Kingman county has more than its share of the best mechanics, it seems. One, Dan Cusenbary, has become so adept he now has a manufacturing plant on his farm, and is finding ready sale for his livestock oilers and creep-feeders of unique design.

"It's funny how an idea grows," says Mr. Cusenbary. He was telling about a simple livestock oiler he built several years ago. It consisted of a T-shaped post with the crossbar of the T filled with oil, and 2 chains going from ends of the bar down to a point on the center post near the ground to form a V. "Then I got

the idea," he says, "that we shouldn't depend alone on the animal's instinct to scratch. So I finally designed an oiler with 4 scratching chains grouped around a center post that also held a salt and mineral feeder. The cattle were lured to the feeder but couldn't get to it without rubbing against the oiler chains."

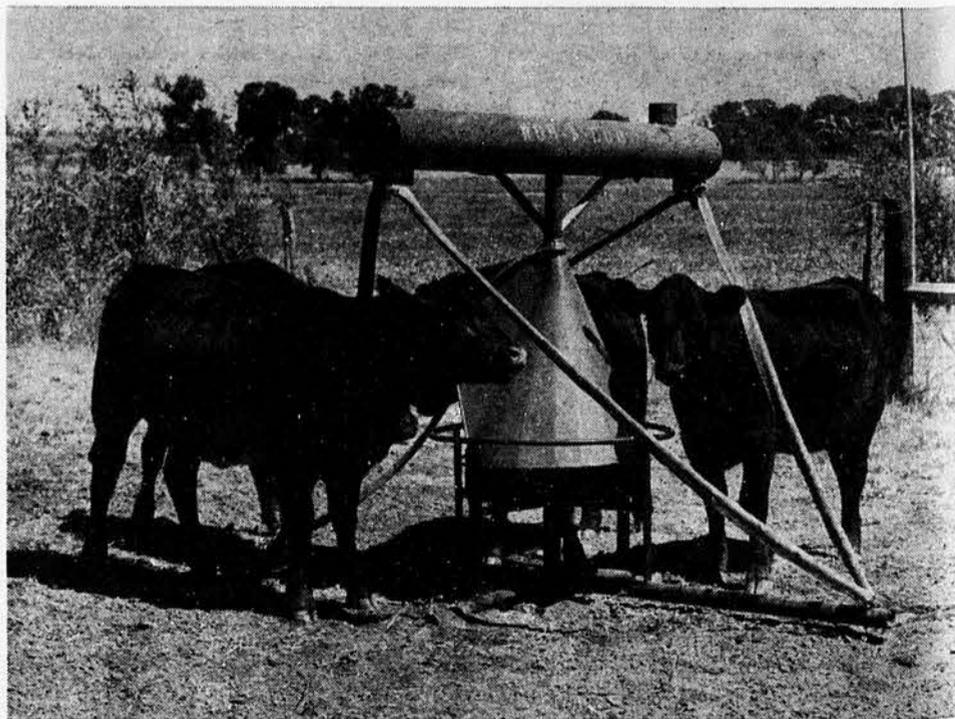
This equipment has been perfected to a point where Mr. Cusenbary has applied for a patent and is manufacturing the oilers to meet a growing demand. One advantage Mr. Cusenbary claims for his oiler is it reaches both upper and lower parts of the animal's body. To reach the mineral feeder an animal must either step over or walk under one of the oiler chains, he says. The feeder is protected by a windshield and vane that swing with the wind so salt and minerals will not be wasted due to blowing.

"It's funny how an idea grows," says Dan Cusenbary, of Kingman county

Another popular item from the Cusenbary shop is his all-metal creep-feeder for lambs or calves. The feeder proper is a large metal container of whatever size is desired, protected with a shield that revolves in the wind to keep feed from blowing. Outside rim of the creep consists of curved metal sections with vertical openings at fixed spacing around the circle. Horizontal sections can be slid along top and bottom frames to vary size of verticle openings. Sections are held together by metal pins. In filling the feeder at center, farmer can unpin any section of the circle and swing the section open like a gate. All Cusenbary equipment is treated with rustproofing material under the paint to insure longer life. Like the oiler, the self-feeder is meeting with great success among farmers. [Continued on Page 18]



AN IDEA for a livestock oiler worked out by Dan Cusenbary, Kingman county, grew from the simple scratcher, at left, to the combination oiler and mineral feeder, below.



Kansas Farmer

News and Comment

Need More of Everything

KNOW WHAT a demographer is? He is the fellow who specializes in predicting population trends. He sits back with pencil and slide rule and tries to figure how many people will be in a given place in a certain year.

During the last few years, demographers have been having their troubles. Seems back in the thirties their slide rules got stuck. They were figuring the United States would achieve its full population growth by 1960—a peak of about 157 million—then our population would level off and remain pretty much the same for years and years.

Now we find our population figure passed the 157-million estimate last July, according to the Chamber of Commerce of the United States, and there seems to be no limit to how big we can grow.

Even the most conservative experts say by the year 2000 there will be 200 million people in this country. Others place the figure as high as 300 million.

As our population expands it will be up to agriculture and business in this country to provide more and more products and more and more jobs.

By 1957, for example, the Department of Agriculture says we'll need 20 per cent more of everything. We'll have to produce 5½ billion pounds more meat than we now produce. We'll need 30 billion pounds more milk, and 15 billion extra eggs. No one can say how many millions more automobiles and radios and television sets and air-conditioning systems, trains, airplanes, trucks, household appliances we will need.

New horizons beckon. Not only will private initiative be encouraged; it will promise greater rewards because our expanding population has an insatiable appetite for the products of our farms and fields, our mines, timberlands and factories. The wants of tomorrow cannot be measured by the demands of today.

Must Be Alert

IS AMERICA entering the peak period in a new cycle of livestock diseases? This question is raised by the American Veterinary Medical Association, in a review of disease threats which recently have taken heavy toll in the Nation's barnyards.

"The livestock industry has seldom been faced with as great an assortment of threatening contagious diseases as at present," states the association. "These diseases have been on the increase during the last 2 or 3 years. Not all are new, but those not new have at least developed some new aspects."

Among serious problems the veterinary profession is now battling on the Nation's farms, the following were listed:

Anthrax, with new and unusual enzootics occurring in many swine herds in recent months.

Vesicular exanthema, which has spread from coast to coast since early summer, and forced quarantine of swine shipments in some areas.

Air sac disease of poultry, a new threat on the eastern seaboard.

Anaplasmosis of cattle, which has infiltrated the northern states.

Leptospirosis, a spreading blood disease of cattle.

Rabies, which continues to spread as a threat both to animals and man.

The report also listed a half dozen other widespread diseases which seem to pose a growing problem.

Being on the alert to catch any diseases that show up is half the battle, or an important part at least. Once a disease is discovered and reported to your local veterinarian and the Kansas Livestock Sanitary Commissioner at Topeka, you can expect vigorous co-operation in preventing its spread and in stamping it out from these sources, as well as from purebred livestock associations, stockyards companies, meat packers, and federal livestock and sanitary control officials. This was proved, as you know, only recently in Kansas.

Taxes Grew Up

FEDERAL TAXES from individuals, we learn, are 21 times as high today as in 1939. We all grumble about it. But John Stuart, of Quaker Oats Company, has started the IGHAT Club. Meaning, "I'm Gonna Holler About Taxes."

"Purpose is to get people to work thru their representatives in Congress and state legislatures to cut out all unnecessary spending, actually reduce taxes.

We haven't seen such an exhibit, but storekeepers are urged to display the amount of merchandise the average taxpayer could buy with the amount of money he pays in taxes every year. Might be a good idea, also, to display the amount of eggs, milk, cheese, flour and other foods the average man's tax money would buy.

Taxes are essential, no one disputes that. But unnecessary spending of tax money should not be tolerated.

Important to You!

DOES AGRICULTURAL research mean anything to you? Here are just a few benefits resulting from research projects carried by Kansas State College. These were mentioned recently by Dean A. D. Weber of the college in speaking before a group of legislators:

1. Crop yields have increased 45 per cent in the last 25 years.
2. Milk production per cow has increased 20 per cent.
3. Egg production of hens has increased 50 per cent.
4. Use of antibiotics has saved 100 million dollars in feed costs for broiler production alone.
5. A \$50,000 appropriation in 1949 for an artificial dairy breeding center at Kansas State College has returned \$500,000 to Kansas and is paying its own way.

On another occasion Dean Weber said: "Everyone who likes to eat good food needs to be concerned about research and education. Yet we are going to have to convince people in all walks of life that the farmer is not the only beneficiary of research and education which of necessity must be financed by government. If we are to hold what we have, we must expand and extend the agricultural research program



"Plan your work; then work your plan!"

"Luck is preparation meeting opportunity."

"Some young men at a dance get black eyes because they are struck by the beauty of the place."

"Best angle from which to approach any problem—the try-angle."

"Women back-seat drivers," said Mon, "are no more of a nuisance than men who cook at the dining-room table."

"A bee's sting is only a small fraction of an inch long. The other 3 feet are your imagination."

"The best laborsaving gadget around our place," said Mother, "is your Father."

"If you worry too much, that's enough to worry about."

in the United States and Kansas. This is going to take money. But over the long pull, increased support now will pay off."

Dean Weber also said: "The outstanding lesson from the past in agriculture is that farmers and those associated with them have made it possible for all people of the United States to be the best fed, clothed and housed people in the world. Farmers and ranchers have achieved the highest standard of living of all farmers in the world."

These are facts that will help convince any doubters about the value of agricultural research. Each one of us can do a real service to agriculture and the whole country if we make it a point to "sell" the importance of agricultural research on every occasion that presents itself.

How It Started

"I WONDER HOW THAT STARTED" has been appearing in *Kansas Farmer* for several issues. For example, how did the saying, "Sowing Wild Oats" get started? Or "Cool as a Cucumber?" or "Mad as a Wet Hen?"

We would like to invite *Kansas Farmer* readers to send your favorite sayings to the editor, either telling how these sayings got started, or asking us to find out for you. As many as possible will be published in coming issues of *Kansas Farmer*.

Just drop editor, *Kansas Farmer*, Topeka, Kan., post card or letter listing the sayings that interest you. We will try to hunt out how they got started, unless you tell us yourself.



"Could you raise some peanuts, Grandpa, so I can get an elephant?"

CF&I BALING WIRE...

now in the new standard packages



Your dealer now has CF&I Baling Wire in a new package. You'll find it's no longer labeled according to the various makes and models of automatic balers. New standards from the American Society of Agricultural Engineers specify baling wire by coil size.

Today, you'll find CF&I Baling Wire in three coil sizes . . . one of these sizes will fit your automatic baler regardless of its make or model. Your CF&I dealer will see to it that you get the right size. Now, more than ever, it is important you specify baling wire by brand . . . be sure you ask for CF&I Baling Wire.

ON BALING WIRE...

THIS BRAND IS YOUR PROTECTION

THE CALIFORNIA WIRE CLOTH CORPORATION • Oakland
THE COLORADO FUEL AND IRON CORPORATION • Denver

THE COLORADO FUEL AND IRON CORPORATION



WHEAT PRICE CRACK-DOWN JULY 1

... Grain contaminated by insects, rodents or birds will be declared unfit for human food

DON'T FORGET the Federal Pure Food and Drug Department is all set to crack down July 1, 1953, on all wheat infested by insects. Wheat containing 3 or more exit holes in 100 grams will be subject to seizure and declared unfit for human consumption. Such wheat must be sold as livestock feed at a reduced price of from 50 cents to 70 cents a bushel. Who will take that loss? The shipper, of course, will take the first loss, since only wheat shipped in interstate commerce will be seized.

"But," says C. W. Pence, director of field activities for the Kansas Wheat Improvement Association, due to the serious loss elevator men can take if a carload of their wheat is condemned, they are going to be very careful in buying your wheat, and will thus be passing the price differential for such wheat on to you farmers."

Since the Federal Pure Food and Drug Department already is condemning wheat containing more than one rodent pellet to the pint, Mr. Pence says it is very important you carry on an excellent sanitary program both for weevils and rodents, as well as a control program to kill rodents and reduce weevil infestation.

Long Way to Go

In a recent issue of Kansas Crop News, distributed by the Kansas Wheat Improvement Association, Don Wilbur, professor of entomology at Kansas State College, reported wheat growers still have a long way to go in grain sanitation.

Wilbur's report is based on hundreds of observations of stored grain made by him and Lloyd O. Warren, made possible with funds from the Kansas City Board of Trade.

The 2 men found 73 per cent of 300 bins selected at random infested with insects, compared with an infestation of only 35 per cent in 200 bins where experimental insect control work was being conducted. Also, fewer accumulations of grain were found about the overhead and walls of bins and granaries than in feed rooms and feed bins. Wilbur said those findings indicate progress in granary sanitation practices among Kansas farmers. Wilbur believes that given the facts, farmers will clean up their grain storage, save losses to insects and rodents.

Besides finding grain-infecting insects in bins, states Kansas Crop News, the 2 men found 82.5 per cent of 126 runways, alleys and driveways in barns infested with insects; 84 per cent of 121 mangers in barns infested; 17 per cent of garages and 22 per cent of all tool sheds examined were infested.

They also found insects in feed rooms, in barreled and sacked grain stored in various farm buildings, in corncribs and haymows, in truck and wagon-beds, in walls, outside the door, and underneath feed rooms, on sills, in cracks, and lodged in masses of spider webs. Grain-infecting insects were found in nearly all farm buildings, in-

cluding barns, poultry houses, hog-houses, animal sheds, machine sheds, tool sheds, and garages. This points to the need, entomologists say, of practicing grain sanitation in places about the farm other than in bins and granaries.

The study also included contamination by rodents and other causes. Evidence of rats, mice, birds, poultry and cats, in that order of frequency was found in bins. Hens frequently nest on top of grain and pigeons and sparrows had access to much of the grain.

Wilbur said 14 different kinds of grain-infecting insects were identified from grain and feed accumulations found in farm buildings. Most numerous were saw-toothed grain beetles followed by the flat grain beetles, fungus beetles, Indian-meal moths, and dermestids. Others were granary weevils, rice weevils, angoumois grain moths, lesser grain borers, flour beetles, small-eyed flour beetles, cadelles, yellow mealworms, and dark mealworms.

Nine species of insects were found in truck and wagon beds, which indicate vehicles are an important means of spreading insect contamination. Combine bins, elevator pits, feed grinders and hammer mills were harborers.

Starting March 17, at Wellington and ending March 27, at Horton, a series of grain grading schools is being held in Kansas for grain buyers from over the state. Representatives from the Federal Pure Food and Drug Administration will attend these meetings.

Here, in brief, is how the Pure Food and Drug Administration will test carload shipments of wheat:

Rodent contamination—Federal inspectors take 5 probe samples from each car. They take 1-pint portion of each probe sample. Finding an average of one or more rat or mice pellets per pint will mean the wheat can be sold only for feed.

Weevil and other insect contamination—The same sample procedure for rodent is followed, except for each probe sample a 100-gram portion will be examined. One-hundred grams is about 1/4-pint or about 4,200 kernels. If 3 or more kernels showing exit holes are found in each 1/4-pint portion, or if the average exit holes per 1/4 pint is 3 or more the wheat will be condemned. In case of doubt a lab test is made.

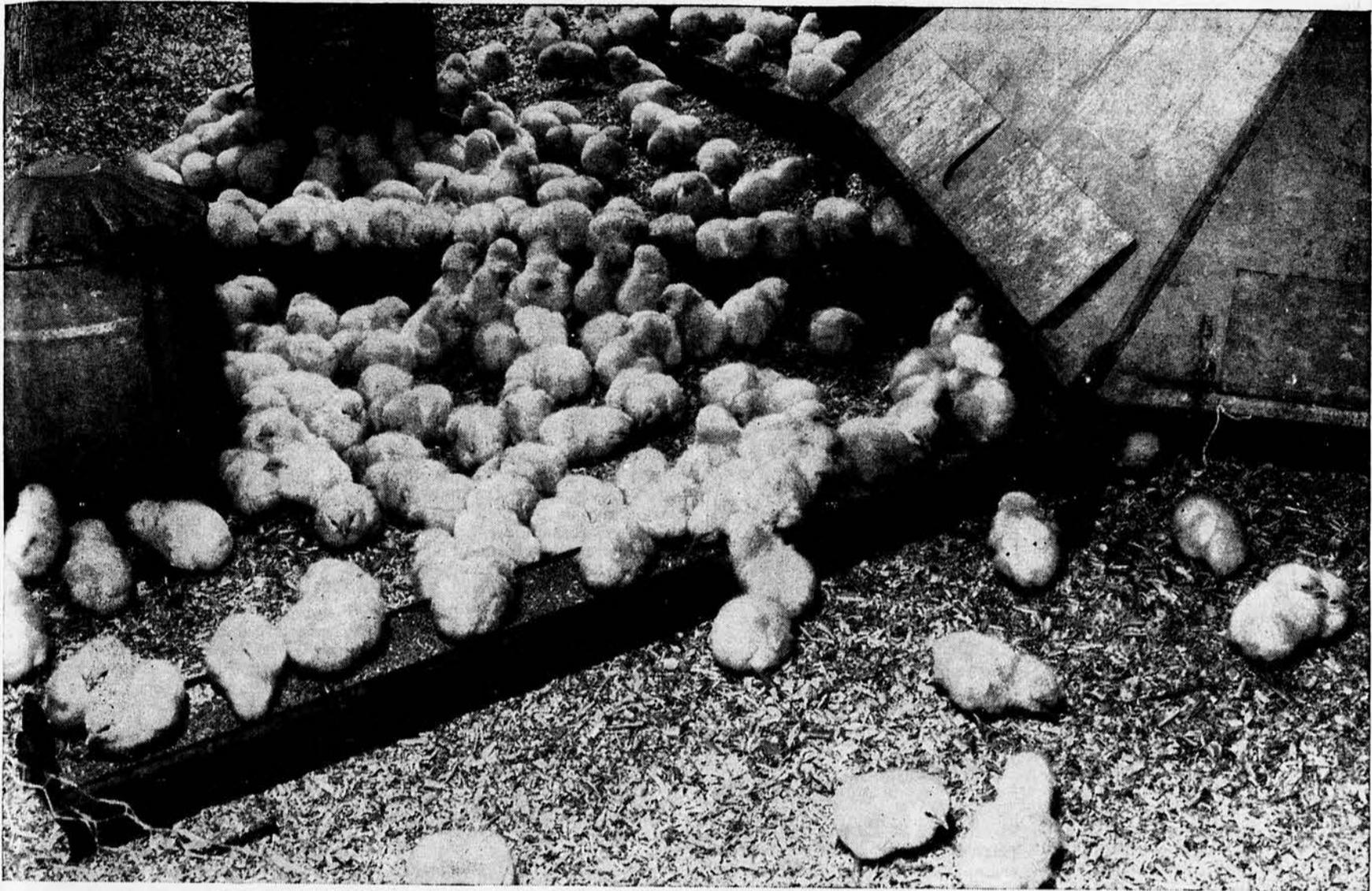
Mr. Pence says a carlot of wheat averages 1,800 bushels. Discounts on wheat condemned as fit only for feed run from 50 to 70 cents a bushel. \$900 to \$1,250 a car. In some cases legal fees and other expenses bring the loss to \$1,800 a car.

Only answer to wheat contamination says Mr. Pence, is "good housekeeping" at and around all storage structures on farms, at county elevators, terminal and sub-terminal elevators, flour mills and careful and persistent fumigation of stored wheat or use of a weevil repellent, ridding all premises of rats and mice, and barring all of the feathered tribe from entrance to places where wheat is stored."

HEAD HOLSTEIN ASSOCIATION



OFFICERS of Holstein-Friesian Association of Kansas for 1953, left to right, Jack Carlin, Smolan, vice-president; Harold Scanlan, Abilene, president; Richard Nelson, Wichita, fieldman; Dale Hughes, Waldron, director; and T. Hobart McVay, Nickerson, secretary-treasurer.



Hundreds of thousands of baby chicks in America's heavy broiler areas have tested and proved the effectiveness of a new feed ingredient that fights the ravages of killer Coccidiosis.

Read below how this same proven wonder drug can help stop costly Coccidiosis losses in your brooderhouse. Read how it may make antibiotic and vitamin growth power even more effective.

This new feed improvement brings us

Closer Than Ever To 100% Chick Livability

New anti-Coccidiosis wonder drug now combined with antibiotic and vitamin growth power in new Life-Saving *Livium.

How many times last year did you find lifeless baby chicks on your brooderhouse floor? How often did you wish for a way to help save those chicks' lives?

If killer Coccidiosis was the cause, it's possible you may now be able to save such chicks and see them grow into vigorous, profitable pullets. The reason: new Life-Saving Livium—a special feed improvement that puts new live-power in every bag of Nutrena Chick Starter.

New Life-Saving Livium is a powerful combination of ingredients to help chicks grow strong and fast. And it actually helps fight off Coccidiosis—the killer that lurks in almost every brooderhouse.

New Life-Saving Livium contains guaranteed effective amounts of one of the best "chick-type" antibiotics and Vitamin B-12. If you fed Nutrena Chick Starter last year, you already know what antibiotics and B-12 can do to help increase chick livability and growth.

But at one important task, these chick builders fail: they cannot stop losses from Coccidiosis.

To help save your chicks from the ravages of this dreaded poultry menace, new Life-Saving Livium in Nutrena contains a new, proven anti-Coccidiosis drug.

From the very first day your chicks go on Nutrena Chick Starter they get protection against those costly Coccidiosis outbreaks. In addition, this new anti-Coccidiosis ingredient allows your flock to build a natural immunity against future killing attacks.

At the same time, this extra life-saving power helps clear up the Coccidiosis infection that often coats up the digestive tract. Thus, more nutritional elements can pass into the chick's bloodstream. And these chicks should get more nourishment from each bite of feed.

That's why Nutrena Chick Starter should help you grow big, healthy chicks; help you save chicks from Coccidiosis and cut down the number of runty culls.

Can any flock owner afford not to protect his investment in baby chicks, feed, work and time? Then why deprive your flock of this new life-saving help?

If you want to put new Life-Saving Livium to work in your poultry house this year, simply call or see your nearby Nutrena dealer. Lay aside a supply of Nutrena Chick Starter and have it on hand when those new chicks arrive. You will be glad you did.

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



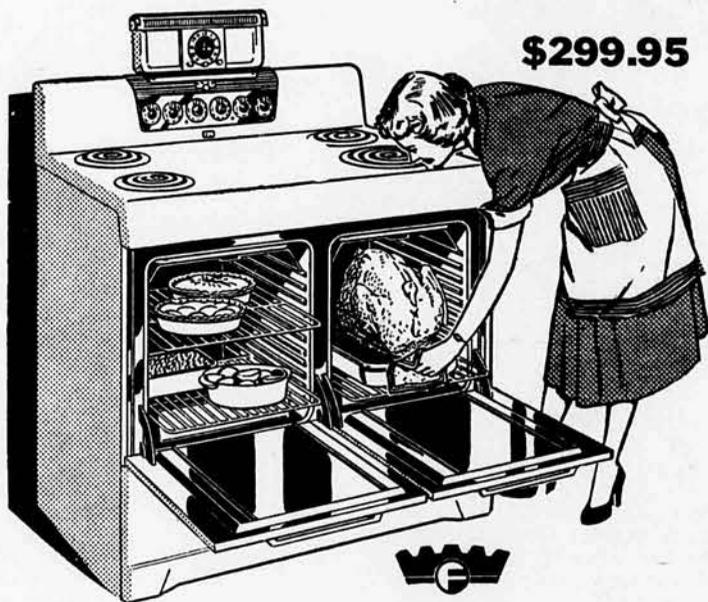
It's new . . . it's improved — this 1953 Nutrena Chick Starter, now stepped-up with new Life-Saving Livium. Look for this colorful new bag at your Nutrena dealers and give your chicks this special life-saving help. (ADVERTISEMENT)

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..... HERE'S THE ELECTRIC RANGE
That Was Designed and PRICED for the Farm Home

FRIGIDAIRE

2-OVEN ELECTRIC RANGE



Yes, in the farm home where there's lots of cooking, you've always felt the need for large oven capacity. Now your Frigidaire dealer (see his name below) is able to offer you a double-oven Frigidaire Electric Range at a price as low or lower than many single-oven models.

The Master RS-28 has two full-size Frigidaire ovens, is fully automatic, made of porcelain throughout and with other of the famous Frigidaire cooking features. You'll want to see this soon . . . look for your nearest Frigidaire dealer in the list below.

SEE FRIGIDAIRE APPLIANCES AT ANY OF THESE QUALITY DEALERS

- | | | | |
|--|--|---|---|
| <p>ABILENE
Shockey & Landes</p> <p>ALMA
Hasenbank & LaMar</p> <p>ALFAMONT
Holmes Hdw. Co.</p> <p>ANTHONY
Wood Music Co.</p> <p>ARGONIA
Horton Furniture Co.</p> <p>ARKANSAS CITY
Wright-Burton Hdw.</p> <p>ARLINGTON
Fay's Sundries & Appl.</p> <p>ARMA
Bosnio Hdw. & Appl.</p> <p>ASHLAND
Grimes Appliance Co.</p> <p>ATTCIA
K. R. Anthony Furn.</p> <p>AUGUSTA
Coleman Gas Serv. Co.</p> <p>AXTELL
Roth's Lock. & Ap. Co.</p> <p>BAYTLE SPRINGS
Milo Chew Drug Co.</p> <p>BELLE PLAINE
Foster Refrig. & Appl.</p> <p>BELLEVIEWE
Hitch & Barth, Inc.</p> <p>BELOIT
Hiserote & Weir Appl.</p> <p>BENNINGTON
Powell Service</p> <p>BENTON
Moots Bros.</p> <p>BLUE RAPIDS
Brake's Furn. Store</p> <p>BUCKLIN
Day Hardware Co.</p> <p>BUHLER
Kim, Elliott & Gard</p> <p>BURDEN
Lewis Chevrolet Co.</p> <p>BURNS
Lyons Supply Co.</p> <p>BUSHTON
Siemer's Service</p> <p>CALDWELL
Terwilliger Hardware</p> <p>CANEY
Fendleton Chev. Co.</p> <p>CAWKER CITY
Riley-Ithoades Ap. Co.</p> <p>CEDAR VALE
Williams Motor Co.</p> <p>CHANUTE
Nab & Bolze Hdw.</p> <p>CHAPMAN
Sanborn Lumber Co.</p> <p>CHENEY
Cheney Farm Store</p> <p>CHEYOPA
Blankenship Hardware</p> <p>CLAYTON
Beccotte-Esslinger</p> <p>CLYDE
A. Seifert Jewelry</p> <p>COFFEYVILLE
Kingsbury Furn. Co.</p> <p>COLBY
Service Tire</p> <p>COLDWATER
Rural Gas & Elec. Co., Inc.</p> <p>COLUMBUS
Brown Refrigeration Service</p> <p>CONCORDIA
Culbertson Elec. Co.</p> <p>COTTONWOOD FALLS
Hamm Electric Co.</p> <p>COUNCIL GROVE
Rumsey & White</p> <p>DIGHTON
Mull Electric Service</p> <p>DODGE CITY
Newkirk's</p> <p>EL DORADO
Home Appliances, Inc.</p> | <p>ELKHART
Ellis Motor Service</p> <p>ELLIS
O'Loughlin Motor Co.</p> <p>ELLSWORTH
Mills Furniture Store</p> <p>EMPORIA
Litke-Stephens Furn. Co.</p> <p>ERIE
Rogers' Hdw. & Furn.</p> <p>ESKRIDGE
Willard Sales & Serv.</p> <p>EUREKA
Donnelly's Radio Electric Service</p> <p>FALL RIVER
Fall River Impl. Co.</p> <p>FLORENCE
Roberts Machinery Co.</p> <p>FORT SCOTT
Darling & Maguire Sales Co.</p> <p>FRANKFORT
Lauer Electric Shop</p> <p>FREDONIA
Hollis Hardware Co.</p> <p>FURLEY
Boyd Implement Co.</p> <p>GARDEN CITY
Mayo's</p> <p>GLASCO
R. W. Cramer Hdw.</p> <p>GOODLAND
D & G Electric Co.</p> <p>GREAT BEND
Mathers-Jaeger Appl. Company</p> <p>GREENLEAF
Hogan & Sons</p> <p>GREENSBURG
Carp Home & Auto</p> <p>HALSTEAD
Mantle's Dept. Store</p> <p>HANOVER
Leutloff Appl. & Elec. Co.</p> <p>HARPER
Hays Hamilton</p> <p>HAYS
Hays Music Co.</p> <p>HERINGTON
Fred Lee & Sons</p> <p>HERNDON
J. G. Huffes & Son</p> <p>HILL CITY
Quenzer Appl. & Hdw.</p> <p>HILLSBORO
John Hiebert, Jeweler</p> <p>HOISINGTON
Gelman Appl. Co.</p> <p>HOLYROOD
Westmacott Hdw. Co.</p> <p>HOPE
Wuthnow Furn. Co.</p> <p>HOWARD
Virgil Munsinger</p> <p>HOXIE
H. K. Appliance</p> <p>HUGOTON
Bob May Chevrolet Co.</p> <p>HUTCHINSON
Graber Furniture Co.</p> <p>IOLA
Schell's Appl. Store</p> <p>JETHORE
Lindas Hardware, Inc.</p> <p>JEWELL
Jewell Lumber Co.</p> <p>JOHNSON
Stewart Furniture Co.</p> <p>JUNCTION CITY
Waters Appl. Store</p> <p>KENSINGTON
Simmons-Olliff</p> <p>KINGMAN
Kingman Radio Shop</p> <p>KINSLEY
Maytag Appliance Co.</p> <p>KIOWA
Fisher-Wood Hdw.</p> <p>LA CROSSE
Leiker's Bonus Store</p> <p>LAKIN
Hart & Co.</p> | <p>LARNED
A. A. Doerr Merc. Co.</p> <p>LEBANON
Lebanon Electric</p> <p>LEHIGH
Burkholder Lbr. Co.</p> <p>LENORA
Eldridge Electrical Co.</p> <p>LEON
Loosh Motor Co.</p> <p>LEOTI
Western Hdw. & Sup.</p> <p>LIBERAL
Hettie Appl.</p> <p>LINCOLN
B. G. Hall</p> <p>LINCOLNVILLE
Burkholder Lbr. Co.</p> <p>LINDSBORO
Billings Refrigeration & Elec. Appl.</p> <p>LITTLE RIVER
Hodgson Impl. & Hdw.</p> <p>LURAY
Hickman & Hampl Plumbing & Elec.</p> <p>LYONS
Deardorff Furniture Co.</p> <p>MACKSVILLE
Breitenbach Appl.</p> <p>MADISON
Schubert's, Inc.</p> <p>MANHATTAN
Kaup Furniture Co.</p> <p>MANKATO
Beam Motor Co.</p> <p>MARYSVILLE
Erie Bros.</p> <p>McHERSON
Green's Appl. Store</p> <p>MEADE
C. F. Worman Elec.</p> <p>MEDICINE LODGE
Dietz Appl. Co.</p> <p>MENTOR
Johnson's Hardware and Elevator</p> <p>MILTONVALE
Phelps Furn. Store</p> <p>MINNEAPOLIS
Hornor Hardware</p> <p>MORGANVILLE
Kreitz & Radtken</p> <p>MOUNDRIDGE
Krebbel Hdw. & Impl. Co., Inc.</p> <p>MOUNT HOPE
Johnsmeyer's</p> <p>MULVANE
Hertz & Rodey Electric Co.</p> <p>NASHVILLE
Stewart Motor Co.</p> <p>NATOMA
Pohlman's Home Furn.</p> <p>NEODESHA
Kreitz Electric Shop</p> <p>NEVADA
Schroyer's, Inc.</p> <p>NEWTON
Newton Appl. Center</p> <p>NORTON
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H. S. Eshnaur & Sons</p> <p>OAKLEY
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Williamson Stores, Inc.</p> <p>OXFORD
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Rodkey's</p> <p>PLAINVILLE
Mosher Bros.</p> <p>PRAIRIE VIEW
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Link Electric</p> <p>PRETTY PRAIRIE
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Quinter Appl. Store</p> <p>RILEY
Meyer Mercantile</p> <p>RUSSELL
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A's Electric Service</p> <p>ST. JOHNS
Youngkamps Furn. Appl., Inc.</p> <p>SALINA
Goodhousekeepers</p> <p>SANTANA
App'l., Inc.</p> <p>SCANDIA
Sanborn Lumber Co.</p> <p>SCOTT CITY
Bryans, Inc.</p> <p>SEDAN
Ding Bell Chevrolet</p> <p>SHARON SPRINGS
C. E. Koons & Son Hdw.</p> <p>SMITH CENTER
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Timken Lumber Co.</p> <p>TRIBUNE
Kreitz Hdw. & Motor Co.</p> <p>TURON
Turon Electrical Sup.</p> <p>ULYSSES
Ulysses Hardware</p> <p>VALLEY CENTER
Central Supply</p> <p>WAKEENEY
Clark Supply Co.</p> <p>WAKEFIELD
Sanborn Lbr. Co., Inc.</p> <p>WAMEGO
J. E. Stewart & Sons</p> <p>WASHINGTON
Grimm Hardware</p> <p>WATERVILLE
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Nichols Electric Co.</p> <p>WEST ORLAND
Knipp's Cash Hdw.</p> <p>WICHITA
The Appl. Center, Inc. 138 North Broadway 1014 West Douglas 121 East 21st</p> <p>WILSON
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Vowel Furniture Co. Whitcomb Appl. Co. Bowersock Mills & Power Co.</p> <p>WINFELD
Weber Hardware</p> <p>WINFIELD
Winfield Electric Co.</p> <p>YATES CENTER
J. C. Schnell</p> |
|--|--|---|---|



BROADENING AREAS of television reception are soon to be activated in Kansas to further increase the great number of sets now being used on farms and in cities. With a station going in at Hutchinson, another at St. Joseph, Mo., and others expected to be approved, reception all over Kansas may be a reality before long.

Altogether, some 100 new stations should go on the air this year over the Nation bringing the total to 280. Nearly 20 million TV sets have been sold.

With this increase, many new sets will be sold. Here are some things to know if you are in the market. Television signals have definite limits. Height of transmitter, power and frequency are shown to affect measurably size of the area in which satisfactory reception may be obtained. Because of this, reputable manufacturers make 2 types of sets known in the trade as "metropolitan" and "fringe" sets.

Metropolitan sets are for sale only within a limited distance of the transmitter. Sensitivity of these sets is not as great, cost of manufacture not as high, but picture and sound are good. Fringe sets, for areas where the signal is weaker, need more electronic equipment as well as an antenna to produce the picture quality.

The matter of which channel is allocated to a station has an effect on its effective area, too. Channels in the "Ultra High Frequency" range, those bearing the higher numbers, have distinctly less useful area than channels in the "Very High Frequency" range. Dependable reception now is accomplished within 75 miles of Kansas City's high-powered station which transmits on channel 4. Similar power in the UHF range, however, may send a picture only a third of that distance, according to one source.

This is not meant to frighten a person from buying a television set. Indeed, enjoyment obtained from ownership and use already has been demonstrated in countless farm homes. Nevertheless, television has its limitations of which one should be aware.

There's a new clock bed-radio with an under-the-pillow speaker that will do the wake-up chores and not disturb others. You can hear your favorite programs at bedtime or be awakened in the morning, and a person even in the same bed need not hear a single note.

In fact, it's possible to buy a kit that will convert any clock into a timer to turn on and off a radio or toaster or

coffeepot, lights, heating units, range or perform other timely duties.

This is the season when electric fences do yeoman service. With that in mind it is well to recall that a new, smooth wire has been developed especially for one-wire fencing. It is lightweight and rustproof.

From a file of clippings I read of a farmer who uses an ordinary heating pad to free drains that are clogged with grease. The heat does a job of loosening the grease, then he dissolves a cup of detergent in some boiling water, pours it in the drain to complete the job. A heating cable might help by concentrating the heat a little more in one spot.

An interesting item comes to us as a reminder of the work electricity is doing in homes. We are told approximately 200 million electric motors are at work in home of the United States. Sizes range from 1/250th-horsepower that operates a record player to 3-horsepower units that operates air-conditioning systems.

You can expect someday to have no open windows, clotheslines and ice-cube trays. Popularity of air conditioning has caused a boom in home units, automatic dryers are saving many a wash-day backache, and the new look in refrigerators produces ice cubes in endless chain fashion and without trays.

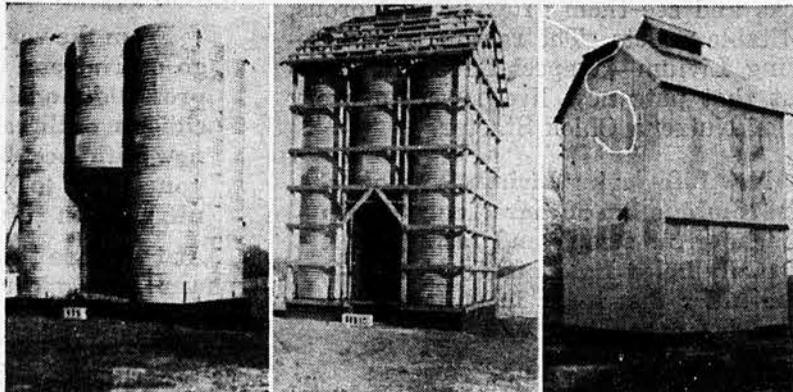
Another electric drill item comes to light. Use it to twist strands of wire into cables. Loose ends of wire are fastened into the drill chuck, the opposite ends clamped in a vise, power is applied in slow spurts and the job comes out far neater and tighter and quicker than any hand-wound job.

By the way, there is a common misconception about heat lamps and so-called infrared lamps that was called to our attention last month. Many people think only lamps with red-tinted glass can be called infrared. Actually, the white heat lamps are infrared lamps because all heat comes from the red portion of the spectrum. The red glass is a means of reducing the light output of the filament so the bulb in use will not disturb rest of man or animal. For instance, either a red or white bulb is effective in treatment of sinus—but who wants to lie with a powerful light shining in his face?

New County Agent

New county agent in Bourbon county is Kenneth Carson, former Vocational Agriculture instructor at Fort Scott. He is a Kansas State College graduate.

A HOME-MADE GRAIN STORAGE UNIT



THESE THREE pictures show stages of development of a practical and unique grain storage unit built by Roy H. Monroe, on his Anderson county farm, 15 miles northwest of Garnett. Foundation is made of drainage tile, with 8 tanks used for holding oats, corn or other grains. A regular clipper fan was used for drying, and a chute fastens on for unloading grains into unit. Total height is 16 feet. Capacity is 1,450 bushels. With motor, cost is just under \$1,400. Unit is sturdy, rodent-proof, meets all regulations for a top grain storage unit.

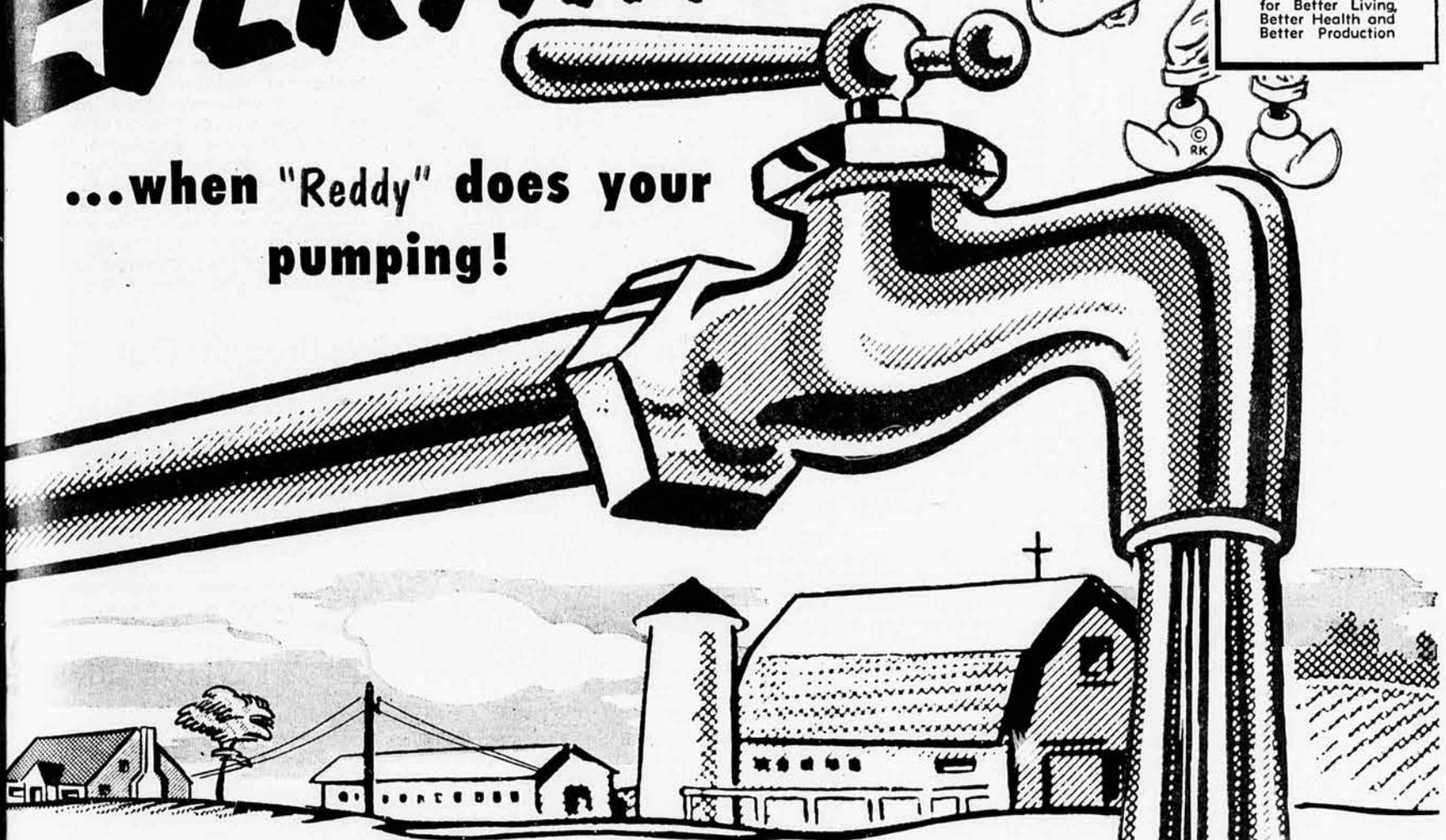
BARN! CHICKEN HOUSE! FEED LOT! MILK HOUSE! WORK BUILDINGS!

WATER... WATER EVERYWHERE



YOUR BEST INVESTMENT
for Better Living,
Better Health and
Better Production

...when "Reddy" does your pumping!



Your Farm is SAFER . . . MORE VALUABLE . . . Your Stock gets to Market QUICKER . . . Dairy Herds produce MORE . . . and you enjoy Better Living when an Automatic Water System Goes to Work.

HERE'S one of the best investments you can make in better farming today. It is the installation on your farm of an adequate electric automatic pressure water system.

Gone is the old-fashioned water bucket when Reddy Kilowatt takes on the job. You save time that can be put to more profitable use in planning and management. Dairy cattle produce more when constant supplies of drinking water are available. Studies indicate that similar results appear in feeding beef cattle and hogs. Plenty of water helps produce more money from your feed outlay.

GREATER FIRE PROTECTION, TOO! Besides increasing the valuation of your farm property, you'll feel more secure because there's water on the spot to put out any fire before it gets a start.

AND HOW THE FAMILY LOVES IT! What farm wife wouldn't welcome the opportunity to enjoy the work-saving equipment made possible by an automatic water system? Water softeners, hot water heaters, dishwashers, bathrooms — all open the way to more enjoyable farm life.

When you turn your water-carrying job over to Reddy

Kilowatt, you free your entire family for more productive farm operation. See your dealer — Enjoy the better living and better health which a modern electric water system provides.



ELECTRIC LIGHT AND POWER COMPANIES IN KANSAS

Central Kansas Power Company
Western Light & Telephone Company

Kansas Gas and Electric Company
Kansas City Power & Light Company
The Kansas Power and Light Company



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Shellabarger CHICK STARTER

BEST EVER USED!! *



★ That's what successful poultry raisers throughout Kansas are saying about Shellabarger "Antibiotic Fortified" Chick Starter. In ONE FEED you can get the fast growth you expect and the health protection that you deserve. Formulated for extra fast growth, even rapid feathering and early maturity, Shellabarger Chick Starter is also EXTRA FORTIFIED with NFZ★, coccidiosis preventative and control. Be like other successful Kansas poultry raisers—have the best poultry year you've ever had with Shellabarger Chick Starter!

★NFZ (Nitrofurazone).

KANSAS POULTRY RAISERS SWITCH TO SHELLABARGERS FOR PROFITS

Switch now to Shellabarger "Antibiotic Fortified" Chick Starter and prove to yourself how you can make more poultry profits feeding Shellabarger Chick Starter... See the extra fast growth, the high livability, the early maturity your chicks will get from Shellabarger's HIGH ENERGY Chick Starter... You can take the guess work out of those first six weeks and assure yourself strong, husky... wonderful chicks that grow fast into big, beautiful birds. Switch to Shellabarger's and see the difference.

FAST GROWTH

Livability was good...FAST GROWTH remarkable!

Louis Simon
Marienthal, Kansas



EARLY MATURITY

Started 250...lost only seven. That's what I call GOOD LIVABILITY.

Joseph P. Charvat
Dorrance, Kansas



HIGH LIVABILITY

Lost only seven out of 500... ate fried chicken in six weeks.

Dr. C. F. Bingesser
Waconda Springs Farm
Waconda Springs, Kansas



NFZ STOPPED DEATH LOSSES

Shellabarger Chick Starter with NFZ sure STOPPED MY DEATH LOSSES.

Mrs. William Bowman
Almena, Kansas



NFZ ADDED FOR COCCIDIOSIS CONTROL

Shellabarger Chick Starter is fortified with NFZ (Nitrofurazone)★. NFZ is a proven medication that helps prevent and control coccidiosis (cecal and intestinal). Get your chicks off to a good start. Shellabarger Chick Starter with NFZ helps assure your chicks faster growth, higher feed efficiency, better feathering, protection against coccidiosis... MORE PROFITS FOR YOU.

★Shellabarger Chick Starter with NFZ optional.



Shellabarger FEED MILLS
SALINA, KANSAS

Area Winners in Balanced Farming Named; Pick State Winners May 7

NINE KANSAS farm families have been declared area winners in the Kansas Balanced Farming and Family Living award program. The program is sponsored jointly by Kansas State College Extension Service and Kansas State Chamber of Commerce.

Winners by district are:

Eastern district—Mr. and Mrs. Herman Roesler, Junction City, Geary county; Mr. and Mrs. Francis A. Gril- lot, Parsons, Labette county; and the partnership of Mr. and Mrs. William F. Voigts and Mr. and Mrs. Norman L. Voigts, Lenexa, Johnson county.

Northwest district—Mr. and Mrs. Heye F. Wilken, Leoti, Wichita county; Mr. and Mrs. Kenneth Kraus, Hays, Ellis county; Mr. and Mrs. Paul Chron- ister, Abilene, Dickinson county.

Southwest district—Mr. and Mrs. Ernest E. Kneller, Rolla, Morton county; Mr. and Mrs. Russell Taylor, Kinsley, Edwards county; Mr. and Mrs. Royal F. Yoder, Conway, McPherson county.

Awards are based on progress made in the last 3 years by families in co-ordinating various agricultural and home economics projects.

Ten points are offered farm families as guides. They are: 1. Soil erosion losses stopped on entire farm. 2. Soil building program on all cropland. 3. Year-around pasture program includ- ing native, tame and temporary pas- ture. 4. Right kinds of livestock bal- anced with feed and pasture. 5. Big enough farm business with high crop yields and efficient livestock produc- tion to provide a good family living. 6. Well-placed buildings and lots kept in good condition. 7. Attractive place with a nice yard, trees and shrubs. 8. Modern farm home suitable to family needs. 9. Wise use of family resources thru home food production, home sew- ing, home carpentry, and shop work. 10. Well-kept farm and home account books used as guides in operations.

The 1953 winners are the third group to receive awards presented by the State Chamber of Commerce. The 9 families chosen as area winners will now compete for state honors and a silver plaque, with 3 families being chosen, one from each Extension dis- trict. State winners will be announced at the annual State Chamber of Com- merce meeting May 7 and 8, Topeka.

These Important Points Brought Out At Annual Southwest Farm Meet

MONEY-MAKING sentences from third annual Southwest Agricultural Congress held recently in Garden City, sponsored by the local Chamber of Commerce:

Western Kansas-grown feeds could be the foundation of a livestock indus- try in that section of the state. Like- wise, a feeding industry is the founda- tion for profitable feed production.

Livestock feeders must maintain re- serve stocks of feed for use in emer- gency periods such as this year.

Lambs will use more rough feed than any other class of livestock. Finished meat can be produced on a ration made up of more than 50 per cent roughages.

Lamb production can be carried on almost any scale without large cash outlay.

Over a long period, lamb feeding has been profitable 73 per cent of the time, and has about broken even the remain- der of the time.

Dairying can be profitable in irri- gated areas of Western Kansas.

Milo grain is as good as corn in get- ting gains. It should be rolled or crimped but not broken to powder by a hammer mill.

Kansas average production per cow kept for dairy purposes in 1952 was 4,370 pounds; national average, 5,330 pounds; Wisconsin average, 6,990.

On a \$4 per 100 pounds basis, income from dairying in Kansas would increase 20 million dollars annually if Kansas produced as much as Wisconsin. Some Kansas dairymen are averaging as much as 9,000 to 10,000 pounds—so it can be done here.

Members of Kansas dairy herd im- provement associations are averaging about 8,000 pounds milk per cow annu- ally.

No. 1 limiting factor in Kansas dairy- ing is crossbreeding—too many beef bulls used on cows kept for milk pro- duction. Even in Eastern Kansas a sur- vey showed more than half the patrons of one creamery were using beef bulls.

Artificial breeding service provided by Kansas State College makes avail- able use of good dairy bulls.

Average annual production of tested cows from artificial breeding in U. S. is 9,533 pounds milk.

When using any adapted beef produc- tion systems—full-feeding, deferred- feeding or creep-feeding—don't deviate from practices found sound in Kansas State tests and by producers.

In beef production, an adequate sup- ply of clean, fresh water is essential if cattle are to make best use of their feed. Drain and scrub tanks regularly.

Shelter other than a windbreak isn't needed; cattle with shed protection have more health disturbances than those out in open.

Profit in dairying above feed cost will increase about 20 per cent for each 1,000-pound gain in milk production.

Disturb cattle as little as possible; give them something to butt around; keep them as comfortable as you can.

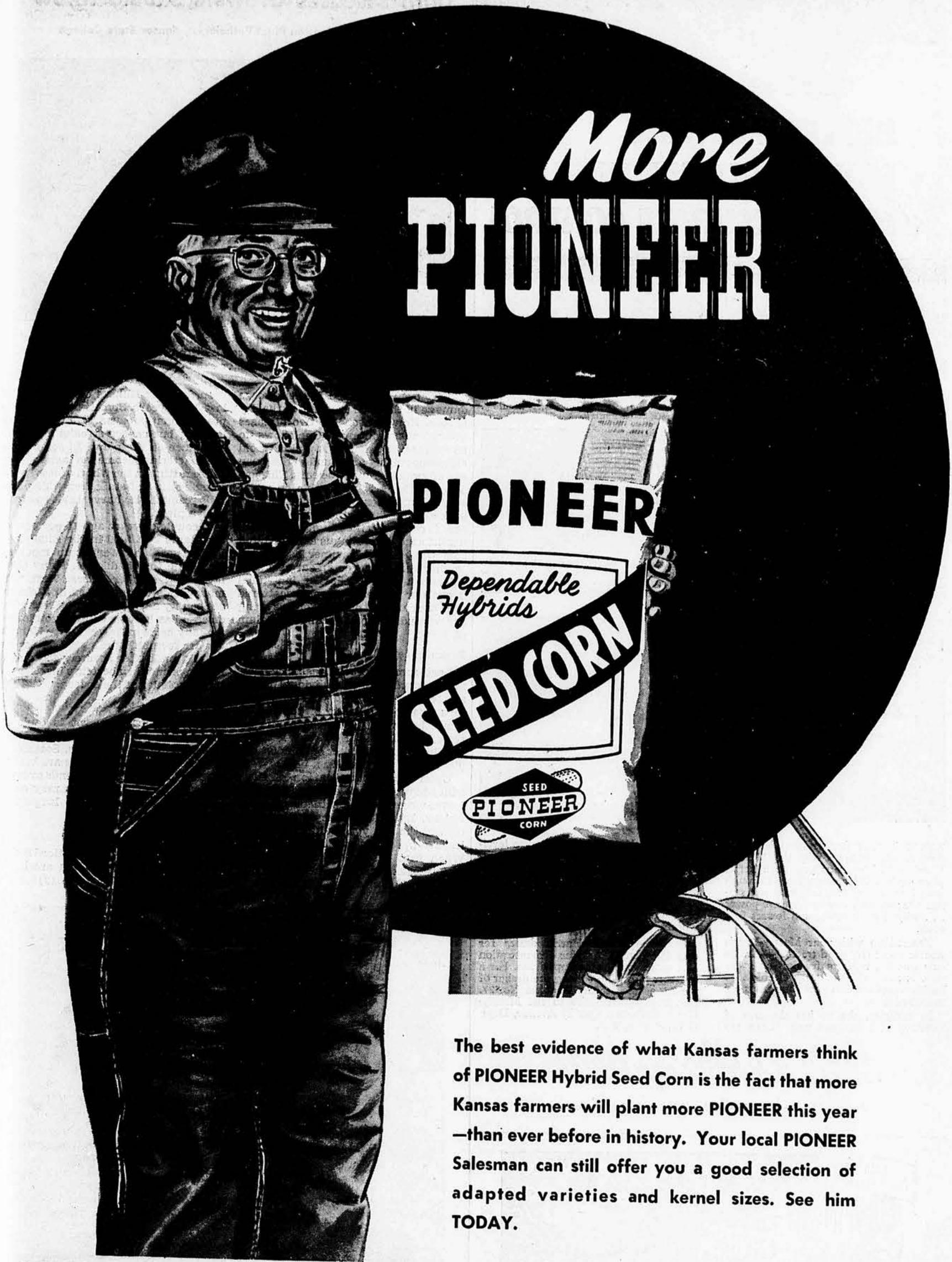
Western Kansas climatic conditions and feed crops should enable a feeder there to produce hogs as cheaply as anywhere in the country. Milo is as good as corn; it must be balanced with proteins.

Contour tilling is one of best ways to increase rainfall absorption. Increased absorption and yields have resulted from contouring almost level land at the Dodge City experimental field. Other ways to reduce runoff; level terraces, stubble mulching, leaving tall stubble stand during winter.

COMING, NEXT ISSUE

What wheat variety should you plant next fall? What should you consider in choosing a variety? Of course, you'll make the final decision, but perhaps you would like to have some help.

With this in mind Kansas Farmer will carry a feature in the April 4, 1953, issue reviewing the strong and weak points of all wheat varieties now getting serious consideration in 1953 seeding plans. You won't want to miss it.



More PIONEER

The best evidence of what Kansas farmers think of PIONEER Hybrid Seed Corn is the fact that more Kansas farmers will plant more PIONEER this year —than ever before in history. Your local PIONEER Salesman can still offer you a good selection of adapted varieties and kernel sizes. See him TODAY.

GARST & THOMAS HYBRID CORN COMPANY, COON RAPIDS, IOWA

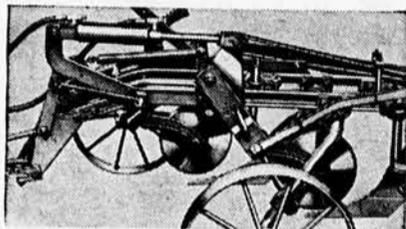
PIONEER

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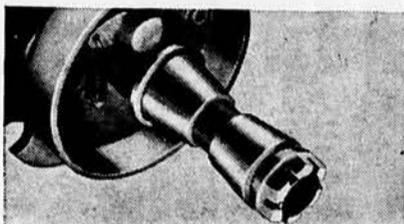
FOUR plus-features

that make for :

- ✓ BETTER PLOWING
- ✓ LONGER PLOW LIFE
- ✓ MORE ACCURATE CONTROL



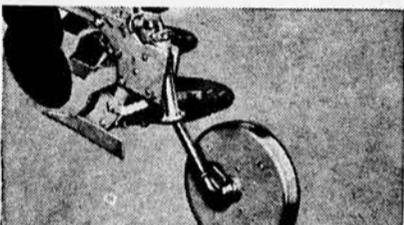
CONSTANT CLEARANCE LIFT raises bottoms 7 1/2 inches clear of ground regardless of plowing depth. Takes one rotation of the land wheel. Hydraulic control available.



CONE-TYPE WHEEL BEARINGS so hard a file won't scratch them. Adjustable for snug, true-running wheels. Results in easier handling, light draft, better trailing.



PATENTED X-TYPE FRAME BRACING is stronger, tougher construction that maintains true plow alignment. Means full, uniform furrow slices, an easier job for your tractor, lower costs.



AUTOMATIC REAR WHEEL LOCK eliminates whipping or sliding while plowing, keeps the plow following the tractor. Automatically unlocks when bottoms are raised, locks when lowered.



HERE in four features you have the practical reasons why the Massey-Harris 28 Plow helps you do a better plowing job. Why it stands up to tough corn land, heavy sod, irrigated soil season after season . . . why you save power . . . why it pulls easier and lowers fuel costs.

Teamed up with your Massey-Harris tractor — or any good tractor — the 28 cuts smooth, uniform furrows on every trip. It slices cleanly, turns cleanly . . . builds a seedbed that gets your crops off to a good start.

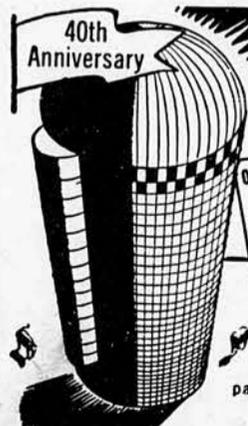
In addition, the 28 has the ease of handling of a mounted unit. Levers are

easy to reach, quick to respond to leveling or depth adjustments. There's adaptability in the wide range of drawbar adjustments and 21-inch clearance . . . selectivity in 12, 14 or 16 inch bottoms, 2, 3, 4, and 5-furrow models, mechanical or hydraulic lift. Steel or Rubber tired wheels.

See your Massey-Harris dealer for complete details. Ask for demonstration . . . make your own comparisons. For a low-cost plow, built along the design of the 28, ask to see the 2-bottom No. 27. For free folder, write to the Massey-Harris Company, Quality Avenue, Dept. C-75, Racine, Wis.

Make it a Massey-Harris

Parts and Service through more than 2500 authorized dealers



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SAVE UP TO 5%**

ONLY SALINA SILO OFFERS THESE EXCLUSIVE FEATURES:
★ 25% More Door Space.
★ All Steel Doors in Reinforced Concrete, No Warping or Rotting.
★ Superior 4-Coat Plaster.

IF YOU BUY YOUR SALINA SILO BEFORE APRIL 1ST.

Savings Unequaled: Up to 5% discount if your purchase is made before April 1st, 1953, and erected before July 1st, 1953. (3% discount on early orders . . . and 2% discount for cash). If you buy on terms, you

can save 3% . . . no down payment and three years to pay.

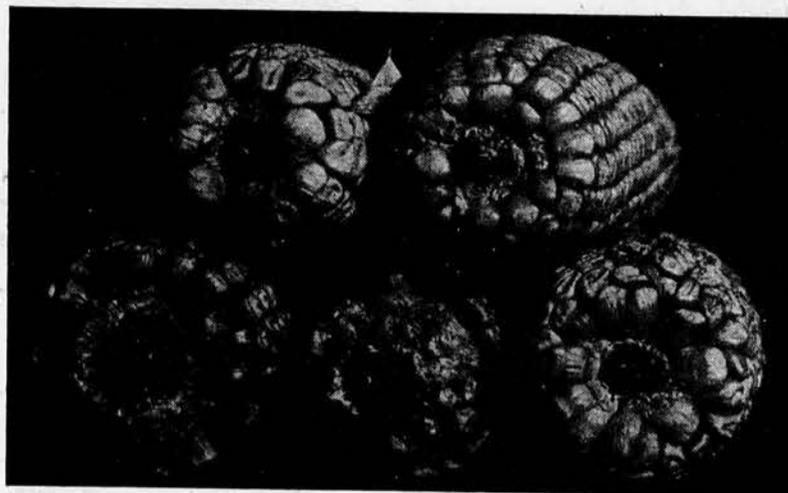
FREE

Send for your copy of this illustrated Salina Silo Booklet.



Corn Diseases Growers Should Know

By CLAUDE KING, Extension Plant Pathologist, Kansas State College



EARS HAVE discolored cobs at butt end. Sometimes this discoloration extends only a fraction of an inch into cob. If cob is discolored some distance into ear, it probably is diseased by nigrospora or one of the other fungi.

THERE WAS SMALL corn disease damage in the 1952 crop due to the dry season. However, one or two diseases are of unusual interest. One shows up as corn is being shelled. A pinkish mold and some rotting are found at the germ end of kernels from some ears. This has been particularly noticeable on white corn. Sometimes white cobs have a pinkish tinge due to the mold. This disease is caused by the fungus, *Fusarium noniliforme*. This fungus attacked in a somewhat unusual manner last year as ordinarily it shows on an ear as a pink coloration on the caps of individual kernels or groups of kernels scattered over the ear. And often it follows along ear worm damage. It is called *fusarium pink rot*.

Bacterial Leaf Blight

Last summer about tasseling time many cornfields had individual plants scattered over the field which had white tops due to coloration of top leaves. Many believed these were plants affected by drought. However, hot, dry weather does not affect only individual plants here and there in a field.

Upon close examination of these white-topped plants one could see the leaves were streaked with long, narrow lesions. By holding one of the leaves toward the sun you could see that the lesions were somewhat transparent. When first damaged the streaks are water-soaked or oily in appearance. This is bacterial leaf blight and has

been found in Kansas only during the last 3 or 4 years. Sometimes it does not predominantly cause "white-tops" as in 1952, but causes streaks on leaves any place on the plant. In some cases the bacteria become so active they cause rotting in the whorl of leaves and cause rotting of stalk from this point. This results in no harvestable ear from such a plant.

A couple of years ago 15 per cent of the plants in a field in the Blue River Valley north of Manhattan made no yield, due to this disease. Many other fields had smaller losses. That year many fields were affected in Wabaunsee county along the Kansas river. The disease has become common on leaves in many fields in Northeastern Kansas. We are fortunate the causal bacterium usually multiplies severely for only a few days and then becomes inactive for the remainder of the season.

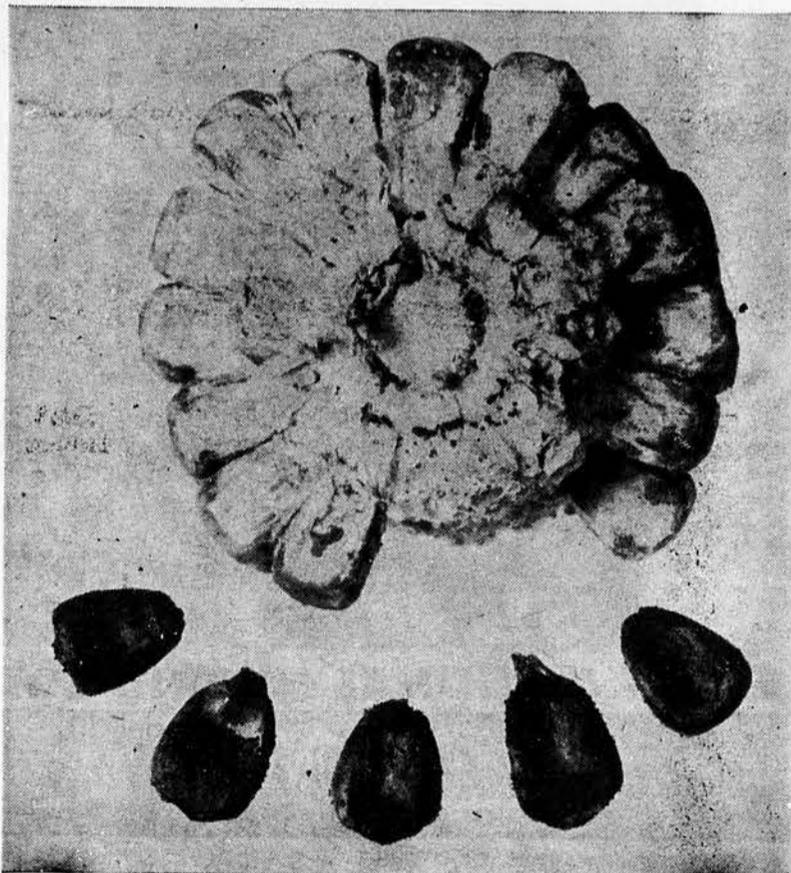
Diplodia Stalk and Ear Rot

Most common ear rot is diplodia. This is the common gray mold seen down between the kernels. Sometimes it is severe enough kernels are brownish and the white mold extends over the kernels. This same fungus may cause stalk rot and consequent lodging of stalks in certain years.

Nigrospora Cob Rot

Every corn grower has noticed rather chaffy ears or those which are light-

(Continued on Page 13)



An ear completely damaged by diplodia fungus.

weight and easy to twist. Kernels are easily pressed into the cob. When the ear is broken the cob shows a dry rot with small black specks scattered thru the shredded pith. This damage is caused by *nigrospora* cob rot. This disease is found more prevalent on corn in which growth has been suddenly stopped by root injury, cold or stalk rot. Corn grown on poor soil shows more of this disease than corn grown on fertile land.

Gibberella Ear Rot

If an ear begins rotting at the tip and progresses toward the other end, and the rotting is brick-red color, the causal fungus is probably *Gibberella*. In addition, husks usually are reddish pink and cemented together due to mold growth between them. This disease also may cause stalk rot like *diplodia* when spores lodge between leaf sheath and stalk.

The disease which causes a blight of wheat heads in which some pink mold can usually be found on the chaff is caused by a certain stage of this same fungus. In some cases in wet years this wheat disease called scab causes severe losses.

Green and Black Molds

There are a few other ear rots of corn. They are generally more prevalent on inbred lines than on hybrids. *Penicillium* ear rot appears as a bluish-green mold on kernels. *Aspergillus* ear rot is characterized by a black, fluffy mold on and between kernels. *Hormodendrum* kernel rot appears as a greenish-black, felt-like mold on caps of kernels.

Storage Rots

Storage rots may develop on either shelled or ear corn if moisture content and air temperatures are high enough to permit fungi to grow. Any one of the species of fungi already mentioned covering ear rots in the field may develop on ears and corn kernels and when stored in cribs or bins. Shelled corn may be safely stored in bins when moisture content is 12 per cent or less. Ear corn stored in ventilated cribs is ordinarily in no danger of storage rots if moisture content of kernels is 18 per cent or less.

Control of Corn Diseases

It is probably impossible to prevent ear and stalk rots completely, because most of the causal fungi and bacteria live over on old corn plants and the grain and their spores are blown about by wind to infect green plants. The following practices should be followed to keep the diseases at a minimum:

1. Do not grow corn year after year in the same field.
2. Use a hybrid recommended by the county agent. Most commercial companies which have sold corn seed in Kansas for several years have one or two hybrids which are their best for Kansas. Therefore, a grower should order his seed, perhaps in the fall, so he will get the best hybrids.
3. In most years a hybrid which is not late-maturing or extremely early-maturing will be more free of disease. Much work has been done by colleges and hybrid seed producers to use strains of corn which have disease resistance.
4. Provide good growing conditions including adequate fertility.
5. Plowing remains of the old crop under rather deep destroys some infection.
6. Treat the seed with Arasan or Spergon unless it already has been treated.

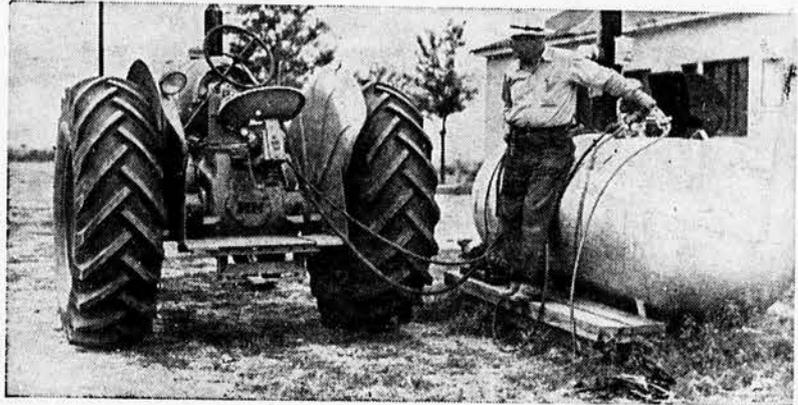
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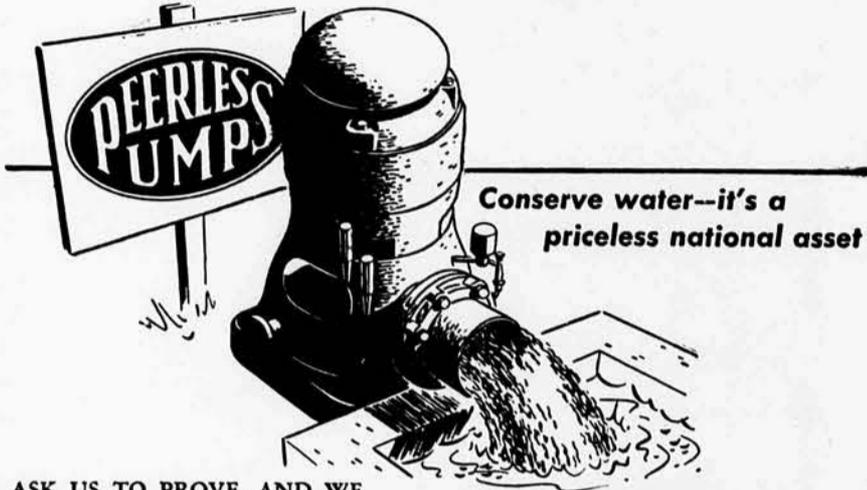
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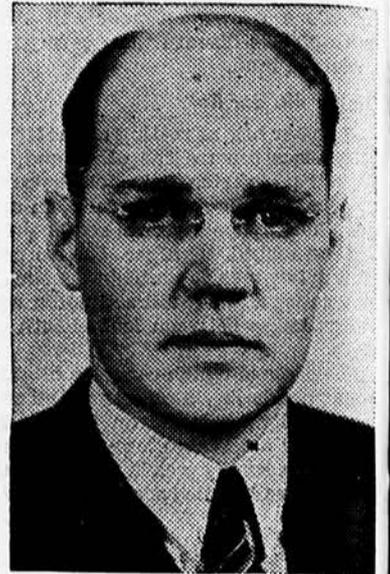
THE Char-Lynn CO., 2887 26th Ave. S., Minneapolis 6, Minn.

No. 5 in series of letters to you from Kling L. Anderson, writing about New Zealand

Just See What They Do With Pastures!

By KLING L. ANDERSON

Editor's Note—Kling L. Anderson, professor of pasture improvement at Kansas State College, has been in New Zealand studying pasture work. Kansas Farmer arranged with him for a series of letters telling what he saw. We know you will find great interest in the way they handle grass. Might be a point or two we can adopt.—R. H. G.



Kling Anderson

DEAR RAY: I have just returned from a delightful stay in one of the most beautiful countries in the world. Not the least of its beauties are wonderful pastures that stay green the year around. Since almost all of New Zealand's wealth comes from grass it is not surprising that grazing has been developed to a high degree. Here are some of my impressions of the pasture program which may be of interest to Kansas Farmer readers.—Kling.

Grazing is New Zealand's major industry and her greatest source of wealth. Her sheep population exceeds that of the United States and her cattle population that of Kansas. Practically all feed for these animals, even hay and silage, comes directly from pastures. Ninety-five per cent of New Zealand's exports and 62 per cent of her total production come from her grazing lands.

Pastures of New Zealand fall into 3 general categories: (1) improved pastures on lower, more accessible lands that can be cultivated; (2) hill country pastures on higher lands cleared of forest and overseeded, and (3) tussock or native grasslands, mostly in high country of South Island. The highly-productive, improved pastures have received greatest attention. It is from these we in the United States can take a lesson in intensive pasture management.

Climate Mild and Moist

New Zealand's climate is generally mild and moist, except in the tussock grasslands, and therefore favorable to high grass yields. In best improved pastures it is not uncommon to obtain forage yields of 10,000 pounds dry matter per acre per year, and yields of 14,000 to 16,000 pounds have been measured. Some of the best pastures in New Zealand carry 8 or 10 ewes or better than one dairy cow per acre. On a 30-acre experimental farm at Massey College, 33 dairy cows plus replacement calves and heifers are not able to cope with the forage produced.

Naturally, not all pastures are as productive as that nor so well managed. But these examples show what can be done on pastures where good forage grasses and legumes are properly managed.

Management: Pasture management must be concerned primarily with high production and efficient use of forage by animals. Both stock and plants must be given proper consideration in a complete pasture plan. For cattle grazing it is possible to allow grass to grow fairly tall between grazing periods, thus encouraging manufacture and storage of adequate carbohydrate reserves. High forage yields are obtained by heavy, less-frequent close removal than by continuous grazing. It is generally considered that sheep do best on close-cropped grass, so sheep pastures are kept closely grazed, often by adding cattle to them at certain seasons. However, with introduction of newer and more palatable strains of grass, it is being found sheep too can and will use grass several inches tall.

To achieve maximum efficiency of grazing, New Zealand farms are subdivided into rather small fields, or paddocks. This permits close control of stocking rates and rotations. Rotation grazing is, in fact, a general practice in most of New Zealand, hence the need for close subdivision of pastures. Sheep often are grazed in large mobs on small

(Continued on Page 15)



CHOU MOELLIER used for winter feeding. Stems in foreground remain after grazing.

pastures for one or more days, then moved to the next as soon as the forage is fully utilized. There may be 10 or more pastures in the rotation. Thus each unit gets a relatively long rest between grazing periods to allow it to produce top growth and to restore its root reserves.

Most dairymen use similar rotations but cattle, responding as they do to the electric fence, can be pastured by the still more intensive method known as rationed grazing or "break" feeding. Here the individual pasture units are still further subdivided by use of temporary electric fence to give animals only as much grass as they will clean up in a given length of time. This may vary according to needs from 1 to 2 days to as little as an hour or so. Many dairymen prefer to move the fence after each milking. But most intensive rotations call for very brief feeding periods to make full and efficient use of grass saved in periods of rapid growth for feeding in times of less rapid growth.

Autumn-saved pasture is commonly rationed to cows in winter, and excessively rapid spring growth may similarly be rationed during its time of greatest growth in spring. At that time there is likely to be much more feed than the herd can use, so protected pastures are cut for hay or silage.

Graze Shoulder to Shoulder

Under this very intensive system of rationed grazing cows are given long, narrow "breaks," often only 2 to 4 feet wide. They line up shoulder-to-shoulder before the narrow strip of grass and consume the feed almost as if there were actual competition for each bite. They are given no opportunity for selecting one plant in preference to another and thus eat all of the feed without waste. There is no trampling or fouling of the forage in ungrazed portions of the pasture. Dairymen, thru efficient use of forage by rationed grazing, are able to obtain yields of more than 300 pounds of butterfat per acre. At Massey College this figure has been boosted to 400 with every expectation of reaching 500 pounds in the next few years.

A further advantage of rationed grazing is its influence in reducing bloat. New Zealand pastures contain large amounts of white and red clover. Bloat is a serious threat in spring but "break" grazing forces animals to consume the entire plant, stems and all, grasses as well as legumes, with the result cows grazed by an intensive rationed grazing system are far less subject to bloat.

It is not to be inferred all pastures are managed so intensively. But intensive pasture management is a rapidly-growing practice and is reflected in the steady climb in production and in carrying capacities.

Use Plenty of Fertilizer

Soil Fertility: Grass is produced to be grazed, but its place in conservation and improvement of soil is not forgotten. It is thru heavy grazing the fertility of New Zealand's pasture lands is built up to such high level. All pasture mixtures contain a relatively large amount of clovers. Liberal use of lime and fertilizers, together with favorable climate, results in very rapid growth, but it is not until the forage is eaten by stock and returned to the soil as animal manures that fertility build-up begins.

Research workers at Palmerston North have shown that in a single season, nitrogen may be returned to an acre of pasture soil in amounts greater than that contained in 1,500 pounds of ammonium nitrate fertilizer. This constant shower of animal excrement, supplemented by lime and fertilizers, keeps productivity at a high level. There is a rapid turnover of plant nutrients that can only be accomplished by full utilization of forage by grazing animals.

It is especially important that animal manures be returned to the pasture from which the forage comes. Fields can be impoverished by failure to make such return, and great emphasis is placed on avoiding transfer of fertility by grazing animals. Some dairy-

(Continued on Page 38)

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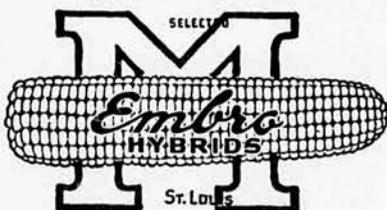
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SPRING PARTY, NEXT ISSUE . . .

In the Home Department, next issue of *Kansas Farmer*, you will find new and interesting ideas for putting on your club's spring party. We include ideas on party sandwiches, drinks, desserts and actual table decorations and service. Watch for this in "The Kansas Farm Home and Family," in *Kansas Farmer*, April 4, 1953.

The Apple Has Had Important Place In History, Folklore and Literature

By JAMES S. BRAZELTON

LIBERTY HYDE BAILEY says, in his "Apples of New York," the original home of the apple is not definitely known. It appears in mythology, tradition, history and archaeology of such ancient nations as China, Babylon and Egypt. The apple even antedates history, going back to some of the earliest traces of the white race. On the site of a Swiss lake dwelling of about 8,000 B.C., the charred remains of apples have been dug up along with pottery and weapons, flaxen cloth, bone needles, loaves of bread and household equipment of those Stone Age people.



James S. Brazelton

Caesar must have enjoyed apples on his banquet table for the Romans cultivated the apple. They introduced it into Britain. Saxon kings were crowned with this coronation benediction lauding apples: "May the Almighty bless thee with the blessing of Heaven above, and the mountains and the valleys with the blessing of the deep below, with the blessing of the grapes and apples. Bless, O Lord, the courage of this prince and prosper the work in his hands and by Thy blessing may this land be filled with apples, with the fruit and the dew of the Heaven from the top of the ancient mountains, from the apples of the eternal hills, from the fruit of the earth and its fullness."

To Keep Age Away

The apple has been venerated and made an object of adoration and in some instances worshipped since mythological times. According to folklore of the Scandinavian countries there was a certain tree which bore apples that had the power of conferring immortality. Whenever the gods felt age was creeping up on them they would eat one of these wonderful apples and their youth would be restored. The goddess Iduna had charge of this tree and its apples. One day Iduna was kidnaped by a character named Loki. He carried off the tree, too, and hid them both in the woods.

Things went haywire in the world and in the heavens. The gods began to grow old and things got out of control here on earth. Realizing the seriousness of the situation they combined

their powers. This was probably the beginning of the co-operative idea. By their united efforts they were able to track down Loki and they compelled him to restore the tree and keeper.

But the Greeks had a legend about apples that topped this one. All the beautiful goddesses were having a bridge party one afternoon. Juno, queen of the Heavens, was there as also was Minerva, the goddess of wisdom. A third distinguished guest was Venus, goddess of love and beauty. But Eris, the goddess of discord, had not been invited. She happened to be passing the place, so just for meanness, she tossed an apple thru the window.

It was a golden apple and on it was the inscription, "For the most beautiful." You can imagine what a melee this started. Each one claimed it. You have heard of the Apple of Discord. Well, this was it. There was hair pulling and a general knock-down-and-drag-out fight. Thru the jealousy of these 3 beautiful goddesses this incident somehow precipitated the great Trojan War, which lasted 10 years.

Don't Blame the Apple

The apple is mistakenly believed to have caused the first fall of man. Read the third chapter of Genesis again. You will not find the word apple. The word is fruit. It was fruit of the tree of knowledge with which Eve is supposed to have enticed Adam. However, the Bible abounds with reference to the apple. "Apple of the Eye," is mentioned at least 5 times in the Old Testament.

"A word fitly spoken is like apples of gold in pictures of silver," is a familiar quotation found in the 25th chapter of Proverbs. In the Song of Solomon there is a cumbersome reference that reads like this: "An apple tree among the trees of the wood, so beloved among my sons." The New Revised Version has probably improved this translation. In Egypt the word for apple is Tappauch and when used in that country might mean any one of 4 fruits: the apricot, quince, orange or citron. Any one of these fruits or all of them could easily have been the apples referred to in Biblical literature.

Classical literature contains many references to apples. The story of William Tell probably never would have been written had it not been for apples. In Whittier's Barbara Fritchie there is this rhythmic couplet:

*Round about them orchards sweep
Apple and peach tree fruited deep.*

HEAD JERSEY WORK



KANSAS JERSEY ASSOCIATION officers elected for 1953 include, left to right, Jim Berry, Ottawa, secretary; A. L. Miller, Partridge, president; W. J. Keegan, St. Joseph, Mo., fieldman; and John Weir, Gueda Springs, vice-president.



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Stop in and make *your* choice. Why not make it soon? Chevrolet Division of General Motors, Detroit 2, Michigan.

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(Standard or High Pressure)



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41-FT. CROP COVERAGE



ORCHARD SPRAYING



FARM BUILDING SPRAYING



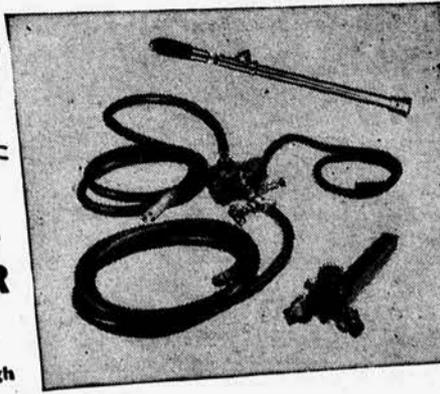
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Never before have you been able to get such versatile, flexible, and dependable performance in spraying equipment. The new, improved 5-nozzle Super Jet Head,* gives completely effective small or large coverage in spraying pastures and small grains at high speed. The adjustable hand gun* can be attached for spraying livestock, buildings, etc. Used with the high-pressure unit, it's a positive, powerful live-stock sprayer.

With either high-pressure or low-pressure unit, depending on your needs, you get the famous COMFORT sprayer engineering that has made the COMFORT name the choice of more farmers than any other. See your dealer now or write for complete details.

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High or low-pressure P.T.O. Pump, manifold complete with shut-off valve, pressure regulator, pressure gauge, chemical-resistant hoses with strainer and other fittings.

*5-Nozzle Super-Jet Head, blanks for adjusting spray pattern and the adjustable hand spray gun are optional at small extra cost.



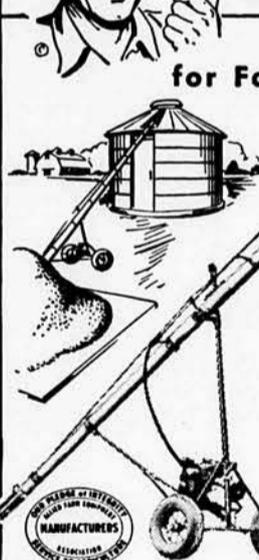
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Type A . . . with famous Flex-drive, illustrated. Also available for electric operation.

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C-50 . . . upright tube with electric motor at head. A permanent, vertical installation.

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with the **Jayhawk** **STACKER - WAGON**
Automatic **LOADER - SWEEP**

Your Best Buy in Hay Field Equipment

Do the whole job . . . from swath, windrow or bunch to 25 foot stack . . . with the fast, easy to operate, low cost Jayhawk. Choice of hydraulic or mechanical operation.

One bolt hook up to tractor, truck or jeep. Long life. Little upkeep. Hydraulic conversion units available for all Jayhawks after 1938. It will pay you to stack your hay the Jayhawk way. Write for details.



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See What Comes Out of Farm Shops

(Continued from Page 4)

Across the road from Mr. Cusenbary, C. H. Sheldon and son, Dale, have designed and built several things that have been featured nationally. One of these ideas was a turntable that allowed them to get a silage cart from a silo at one end of an L-shaped feeding center to bunks running along the other side of the L. The turntable, of course, was built at the base of the L. Another idea that clicked was a light-weight portable metal roof that could be staked down over a pile of baled hay or anything else a farmer wanted to protect. "It was just like putting an umbrella over a stack of hay," says Mr. Sheldon. "I even got letters about that roof from farmers in Canada," he recalls.

One of the latest Sheldon inventions is a perpendicular baled hay elevator that can be either inside or outside a barn. It is powered by a 1/4-horsepower electric motor and is completely automatic. Bale shelves on the lift are 15 seconds apart when in operation.

"With one man below loading and 2 men above stacking," says Mr. Sheldon, "we have stacked 60 bales in 20 minutes. As each bale reaches the top it trips the switch and remains in place until removed. As the bale is removed the switch is automatically started again."

This hay elevator is 16 feet high which allows stacking to 20 feet or more. Because it is upright, it can be operated in a very small space, says Mr. Sheldon. Two wheels are mounted on the base and a tongue at the top. When they want to move the elevator the Sheldons bring it to a prone position and hook it behind the tractor.

One problem in storing hay, of course, is heat. Dale Sheldon has done something about that, too. Side of the hay barn is 72 feet long. Dale has constructed 3 large transom-type sections 4 1/2 feet tall by about 24 feet long. Each transom is controlled by a bar which, when pulled down, operates elbow-hinged metal arms that force the transom open. Smaller transoms are installed on the opposite side of the barn. With double doors at both ends and transoms on both sides the Sheldons can greatly increase air circulation in

their hay barn, and results very good. A few miles south of these 2 farms Joe Govert, another Kingman county farmer, has designed and built several large machines that have been featured nationally. One of his ideas that has been widely copied has been a portable hoist for use in and around the farm shop. This hoist, on wheels, can be wheeled around to wherever a heavy lifting job needs to be done.

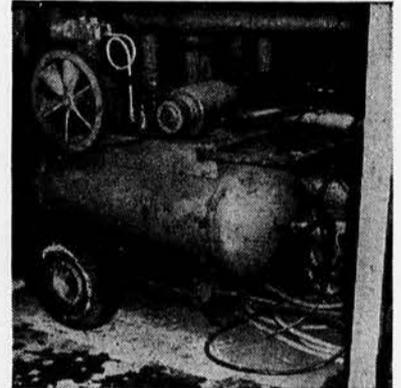
For this article, however, we picked several ideas we thought would be more in keeping with needs on the average farm where shop work is done.

One thing we noted was that Mr. Govert saves a lot of time in his shop by keeping a complete stock of bolts properly labeled and stored. He probably has the most unusual source for his bolt storage shelves of any shop in Kansas. He took the square wooden tubes from a junked pipe organ and cut them into bolt boxes.

Making one motor do several jobs is a must in the farm shop, thinks Mr. Govert. "If you aren't careful," says Mr. Govert, "you can wrap up a lot of money in motors that won't earn their way."

An example of how he plans to make one motor do several jobs was explained by Mr. Govert. He first built a

(Continued on Page 19)



THE GOVERT compressor is mounted on discarded airplane wheels and can be pushed or pulled to wherever needed.



A METAL FRAME stand built of scraps is being used by Joe Govert, Kingman county, on which to mount motor and tools. Note orderly handling of bolts thru storage boxes on wall.



JUST LIKE a wheelbarrow now. Mr. Govert made his acetylene welding outfit portable with this simple metal cart.

metal frame on which he mounted a 2-horse electric motor. On one end of a shaft he put a 14- by 2-inch emery wheel. He plans to alter the equipment so he eventually will have a circular saw and a thickness plane on the same frame, all using the same motor.

A very simple metal framework made in the farm-shop holds acetylene welding equipment. The frame, of course, is mounted on rubber-tired wheels and has handles like a wheelbarrow. This equipment then can be moved anywhere around the shop or the concrete apron outside the shop. Or, it could be loaded onto a truck and taken anywhere on the farm.

Discarded balloon wheels from a small airplane were used by Mr. Govert to help make a portable cart for his compressor. This compressor can be pushed or pulled to any spot where it is needed.

Nothing Daunts Country Cousins

(Continued from Page 1)

Milk," the group put on a campaign to wipe out any possibility of undulant fever in the community due to unsafe milk. The farm of every member of the unit was visited and cows tested for Bang's disease by a Harper county veterinarian, assisted by Mr. Bruey. In 2 months tests were completed, with each farm paying for its tests at \$1 a head. Four reactors were found and steps were taken immediately to clear those herds of the disease.

Another study project dealt with water purity. A state pamphlet emphasized especially the importance of testing drinking water given to babies and young children. Following the Harper county health director's instruction, the "Country Cousins" obtained sampling containers and got samples from wells of every farm represented in the group. These were sent in for tests. It was a great relief to the women to find all water supplies were safe.

Painted Mailboxes, Also

Attractive, uniformly-painted and marked mailboxes can be found throughout Country Cousins land. Painting mailboxes and seeing that owners were properly listed on the boxes was another fine project of this active group.

When Farm Safety Week came along in the spring of 1952, the club staged cleanups on every farm after studying causes of accidents, fires and general hazards.

Club members keep well-informed generally by each reading a book a month. Their community service in 1952 also included conducting fund drives, packing Christmas packages for 16 men of the community in the Armed Forces, refinishing a piano in the Bluff City Methodist church, and making cancer dressings.

Various club activities are designed to raise funds for their projects. Members piece quilts, sell vanilla, participate each year in a YWCA stunt night for which cash prizes are awarded, and compete against other units in the county in basketball: "It's all a lot of

fun and helps raise needed funds, too," explains Mrs. Bruey.

Once a month is family night for the Country Cousins, most of whom are related one way or another. Members and husbands gather at Skokol Hall for parties on these special nights.

Members of the Country Cousins unit are rightly proud of their program, believe every minute of it is well worthwhile, and welcome any newcomers who want to participate in it for community improvement.

Hold Little American Royal

The grand parade will open the door on the 25th annual Little American Royal Livestock Show at Kansas State College, in the Fieldhouse, on March 28, Manhattan. More than 150 students, including 5 coeds, will take part in the Silver Anniversary show.

Feature attraction of show will be

performance of a dressage horse, by Capt. R. J. Borg, of Fort Riley. He was associated with the U. S. Olympic Equestrian team in 1948 and 1952 as a rider, coach and trainer. Four purebred gilts will be awarded as door prizes to 4-H and FFA clubs.

Students have a choice as to class of livestock to show, drawing for their animals from College stock. Entries will include dairy, beef cattle, sheep, hogs and horses. During the 7-week fitting period some students have spent as much as 2 to 3 hours a day grooming and training animals. Students will be judged on improvement they've made on animals and ability to show animal in the ring. Judges at the show will be leading stockmen from the Midwest.

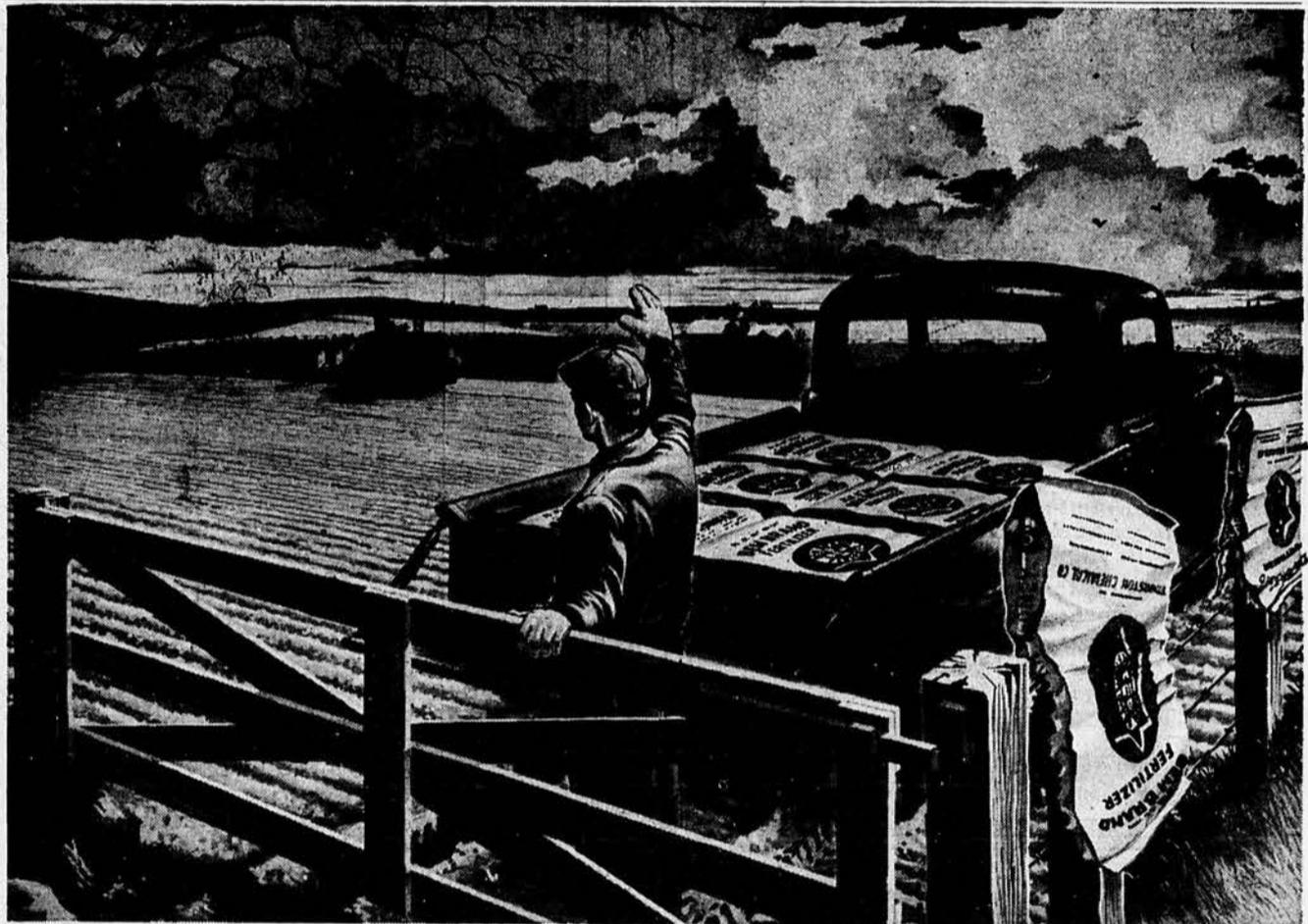
Grand champion trophy in the Block and Bridle division will be donated by the Kansas City Stock Yards and the Dairy division trophy by the Kansas City Chamber of Commerce. Other trophies are donated by the American Royal Livestock Show.

The Little Royal started in 1924 as a "parade" part of Farm and Home Week at the College. In 1928 students fitted and showed animals. The show is jointly sponsored by the Dairy club and the Block and Bridle club. In 1951 the event was moved into the Fieldhouse to accommodate crowds and entries. More than 3,000 persons now attend the event. Tickets may be obtained by writing to the dairy or animal husbandry departments.

Hold 4-H Leaders Meet

Annual state 4-H Leaders Conference, at Hutchinson, is set for April 13 to 15 at the 4-H Club Building on the State Fairgrounds.

Community and project leaders and county agents are eligible to attend the meeting. Members of the state 4-H department and Extension specialists of Kansas State College will present the program of new ideas on club organization and project work.



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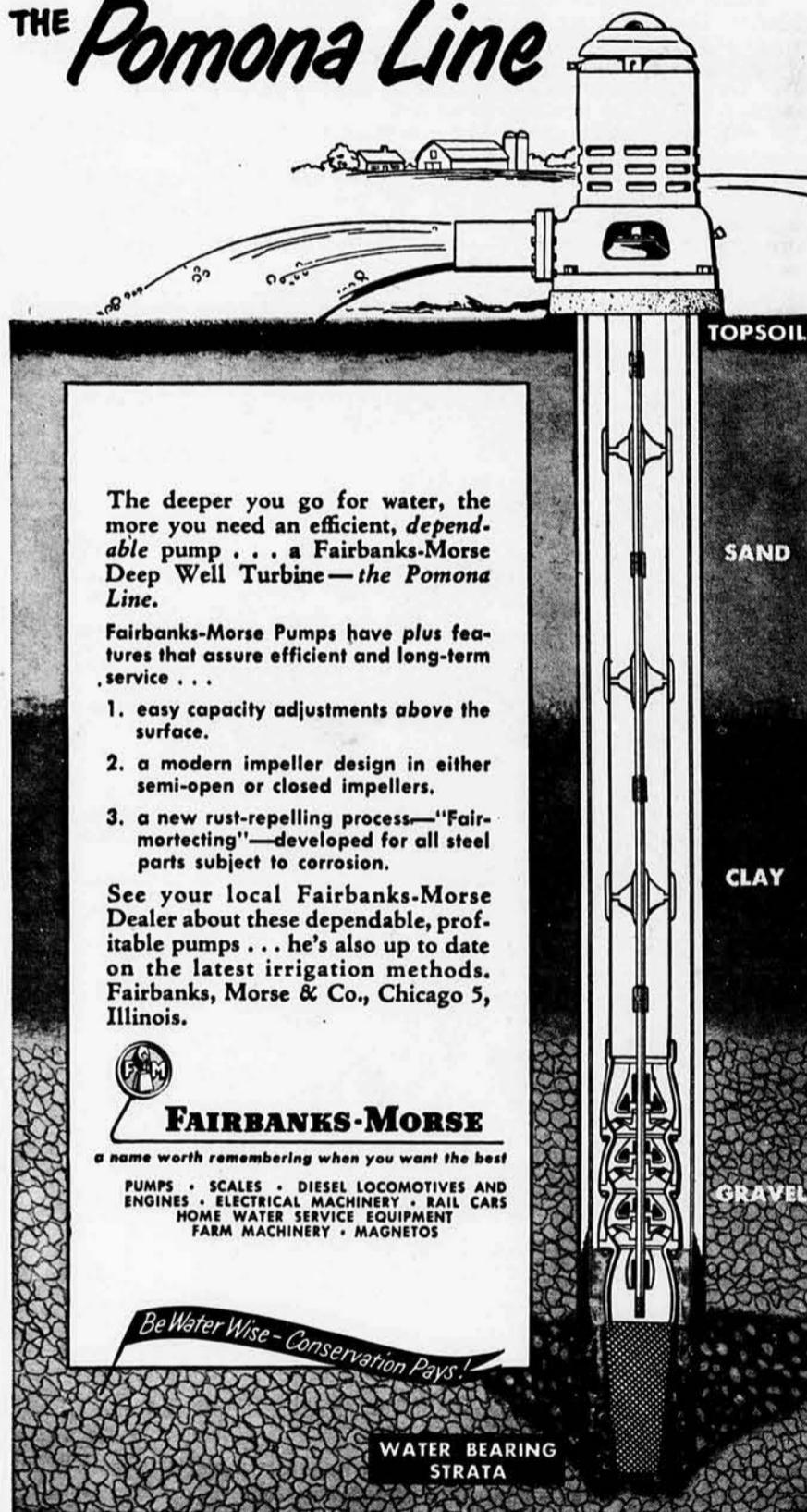
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MODEL 44

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Two Outstanding 4-H'ers Win Capper Scholarships Thru Kansas Farmer

GARY GRIFFITH, Clay county, and Marjorie Gigot, Finney county, are 1952 Capper Scholarship winners of \$150, awarded thru *Kansas Farmer*. Announcement of the awards, to be used for study at Kansas State College, is made by J. Harold Johnson, state 4-H Club leader.

Outstanding leadership in 4-H Club activities won scholarships for these 2 top Kansas young people. This is the 21st consecutive year Capper Scholarship awards have been made.

Gary Griffith, 17, of Clay Center, is a member of the Washington Headliners 4-H Club. He has 6 years of club work experience, lives on a 280-acre farm. Projects last year included crops, dairy and leadership. He represented his club on the County 4-H Council last 2 years. He helped organize his local club, has given many talks on how 4-H contributes to good citizenship, has attended the State 4-H Round-up. He has been club president, chairman of club safety committee, attended State Junior Leadership Camp. One year he was a good-will ambassador to Canada, being one of winners in Operation Good Will, sponsored by Veterans of Foreign Wars. He says 4-H Club work has taught him the first steps in good citizenship.

Marjorie Gigot, 18, of Garden City, is a member of the Wide Awake 4-H Club. She has 8 years of club work behind her, lives on a 2,920-acre farm. She has completed 46 projects, last year carried work in baby beef, breeding heifers, 19 dairy animals, sow and litter, fat pig, breeding gilt, brome grass, fat sheep, dairy, leadership and foods. At 1952 fairs and shows she won 15 blue ribbons and 5 grand champion ribbons for excellence of project entries. In 1952, Marjorie's club was awarded the WIBW plaque for being one of the state's most outstanding 4-H Clubs.



Marjorie Gigot



Gary Griffith

Another Peach Crop in Making—"If"

By JAMES S. BRAZELTON

"BARRING A LATE spring frost we will have our sixth successive peach crop this year," said Herb L. Drake, secretary of the Kansas State Horticultural Society, guest speaker at the annual Doniphan county fruit school, held recently at the Wathena city hall.

Because of greater income from peaches and from apples a listener suggested more peach orchards be planted. "Before we get too enthusiastic over that idea," said Herb, "let us remember we could just as easily have 6 blank peach years hand running."

Mr. Drake said prospects are favorable for a tremendous fruit crop in the Midwest this year. With this fact in mind he pointed out a weakness in the price outlook. He cautioned growers of this price slump which, he said, was inevitable and reminded them their production costs would likely remain high.

The secretary mentioned the shortage of subsoil water in the fruit district throught the state. This condition is an aftermath of last season's drouth, he said, and could mean small, low-quality fruit this season if we should have a heavy set on the trees. Mr. Drake touched upon the biennial bearing habit of many apple varieties, and suggested chemical thinning at blossom time as a means of changing over to more desirable annual bearing.

Kansas Aids TV Farm Series

Kansas agriculture will play a part in a new, nation-wide television series on agriculture. Roy Freeland, secretary of the State Board of Agriculture, recently sent information to Hollywood for the new TV farm series.

GUERNSEY OFFICERS FOR 1953



HEADING WORK of the Guernsey Association in Kansas for 1953 are left to right, Roy Neher, Oswego, president; Willard Lister, Ottawa, vice-president; C. J. Graber, Newton, secretary-treasurer; and T. C. Main, Fayetteville, Ark., fieldman.

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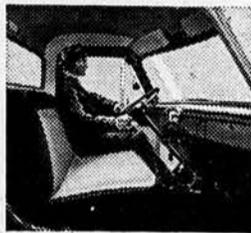


Completely New for '53 FORD *ECONOMY* TRUCKS

NEW TIME-SAVING FEATURES GET JOBS DONE FAST!

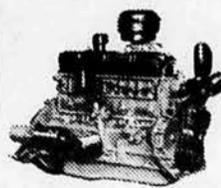
Ford Economy Trucks for '53 are completely new from the tires up! New cabs, new chassis, new power, new transmissions . . . every inch specifically designed to save time, provide quick and economical truck transportation in every kind of farm work. New Ford Truck *time-saving features* GET JOBS DONE FAST . . . at still *lower cost!*

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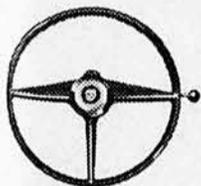
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OLDEST HOT LUNCH PROGRAM?

Dear Editor: In reply to your item in Kansas Farmer, February 21, 1953, I wish to help out by telling you that:

During the term of 1917-18, I purchased equipment and started a hot lunch program in district number 55 in Pawnee county. The same plan is being used in that school today, except it is now affiliated with the National Lunch Program.—Mrs. Lucinda W. Reat, Teacher, L'Dora School, District Number 55, Pawnee Co.

Dear Editor: In regard to start of hot school lunches. I believe they started here in Johnson county in 1918. Hot lunches were served, or rather a hot dish to supplement the pail-lunch, at Moonlight School during winter of 1920-1921. Heating stove was the cookstove the first year and children took turns providing the food. Next year we purchased a kerosene stove for cooking. That one hot dish made all the difference in the world in the childrens' eating habits. We spent about 30 minutes each day at lunch; previously they grabbed a sandwich in one hand and rushed out to play. The children wanted the hot lunch continued even in hot weather.—Mae Schermerhorn, Johnson county.

Can any other school district in Kansas beat this record? If you know of a hot school-lunch program that was started earlier, please write The Editor, Kansas Farmer, Topeka Kan.

No. 8 in series of articles on how to grow house plants

One Favorite And Two Villains

By FRANK PAYNE

POINSETTIA is favorite gift flower of Christmas season in America. Here millions are grown by commercial growers and sold as potted plants by florists. They grow wild down in Old Mexico, just like sunflowers do here. Yet in good old U.S.A. we mother, baby and pet them as if they were priceless. They received their name in honor of Senator Poinsett, sent by the United States as ambassador to Old Mexico many years ago. The Mexicans liked the Senator and named this wild flower Poinsetta. Today there are thousands of folks making a good living growing this wild Mexican weed named after a U. S. Senator. Isn't this a funny old world when many folks can make a living from just growing weeds?

Needs Plenty of Moisture

Now Poinsettia is a tropical plant and requires much moisture, in fact a great amount of it. Be sure to keep well watered especially when in bloom. Most folks think the large, red parts are the blooms—that is wrong. Their correct name is "bracts." The true flowers are the small, yellow appendages in the center of the large, modified leaves or bracts. They require an average temperature of 65 degrees and plenty of sunlight. Avoid sudden chills or leaves will turn yellow and fall off.

When thru blooming, stop watering and allow soil to dry. Store in a dry basement. About middle of April repot in new soil and cut off all tops down to about 6-inch stubs. Water and place in a sunny window, but go easy on watering until new growth is 6 inches tall.

When no danger of frost, set pot out in a sunny spot and turn it around every few days to keep roots from taking growth outside the bottom of the pot. They make a large root and would resent disturbance of the large roots or any injury to them.

I would not say Poinsettia are easy to grow. They are temperamental and I wish you the best of luck.

Grow With Caution!

TWO HOUSE PLANTS to grow with great caution. I guess there have to be villains among flowers as well as among people so I am warning you about these 2. Of course, a lot of folks grow them, they really are quite pretty and decorative but here are the honest facts. **JERUSALEM CHERRIES** and **OLEANDERS** are poisonous! Never allow children to eat the fruit of the Jerusalem Cherry. It is very dangerous. Also, do not allow man or beast to chew leaves of the Oleander. They are deadly poison and one can never tell when a small child or a hungry animal may unknowingly chew a leaf and die from the effects of its poison.

There are so many other beautiful flowers one can grow that are not dangerous. I suggest "CHRISTMAS PEPPER." The fruit is bright green and red and is sharp-pointed. The tiny green and red fruit makes it a wonder plant to grow, it is short and bushy with just the right showing to grow in a sunny kitchen. You can start seeds sown in summer months and pot the plants in fall. They require frequent watering and plenty of sunshine.

HEAD BROWN SWISS ASSOCIATION



HEADING KANSAS Brown Swiss Association for 1953 are left to right, Jim Hess, La Harpe, vice-president; Curtis Hunger, Burden, secretary-treasurer; Marvin Kruse, Fremont, Nebr., fieldman; and Paul Green, Topeka, president.

PURINA

CHECKERBOARD NEWS



Around the
PURINA
FARM with
HAROLD L. WILCKE

ASST. DIRECTOR
RESEARCH DEPT.

FARM FIRES are horrible, depressing sights. The one last December that destroyed the main building housing our auditorium, kitchen, dormitory and offices was no exception.

But the determination to rebuild and plan for the future—that's an asset that is beyond destruction on any farm. New dining facilities have now been installed. Research Farm trips will continue as scheduled this spring.

* * *

DID YOU ever try to find and buy 23 calves, each from 3 to 5 days old? It's quite a chore. We found out last fall when we wanted to start one of our many Nursing Chow tests. They had to be average farm calves that had been fed nothing but their mothers' milk. We found the 23 all right, by scouting several counties in Missouri's Ozark dairyland.



Two of the 23 calves wait in stanchions for their share of the Nursing Chow gruel.

The calves matched other good farm results we've had with Nursing Chow. Holstein heifers started on the new Chow in 1952 averaged 320 pounds at 4 months. Guernseys averaged 251 pounds.

* * *

IN FEEDS, the ingredient tag doesn't tell the whole story. We just finished a 1-year feeding test where 2 pens of White Leghorns got different rations. Although the same ingredient tag could have been used for both rations, results showed a decided advantage in nearly every respect for the more highly fortified feed.

Hens on the better ration required .7 of a pound less feed to produce each dozen eggs. Hatchability of eggs from birds in pen No. 1, getting the better ration, was 90% compared to only 77% for pen No. 2 eggs.

Percent production was also slightly greater in pen No. 1. Tags looked the same, but one ration had the "extra" ingredients it takes to help keep hens producing efficiently.

Net \$2.77 Labor Profit Per Hen

by Chet Frazier

WICHITA, KANSAS — "Each of these hens," said Elmer Reep as he pointed to his flock of 418 layers, "made my wife and me \$2.77 above feed costs last year.

"The productive life of these old hens is about finished, but we've got chicks started to replace 'em when the hens go to town.

"We always feel kind of sad when we part with the old hens. For instance, this bunch produced \$4,119.52 worth of eggs on \$2,973.22 feed cost. They also won us second prize in the Kansas Poultry Flock Improvement Contest."

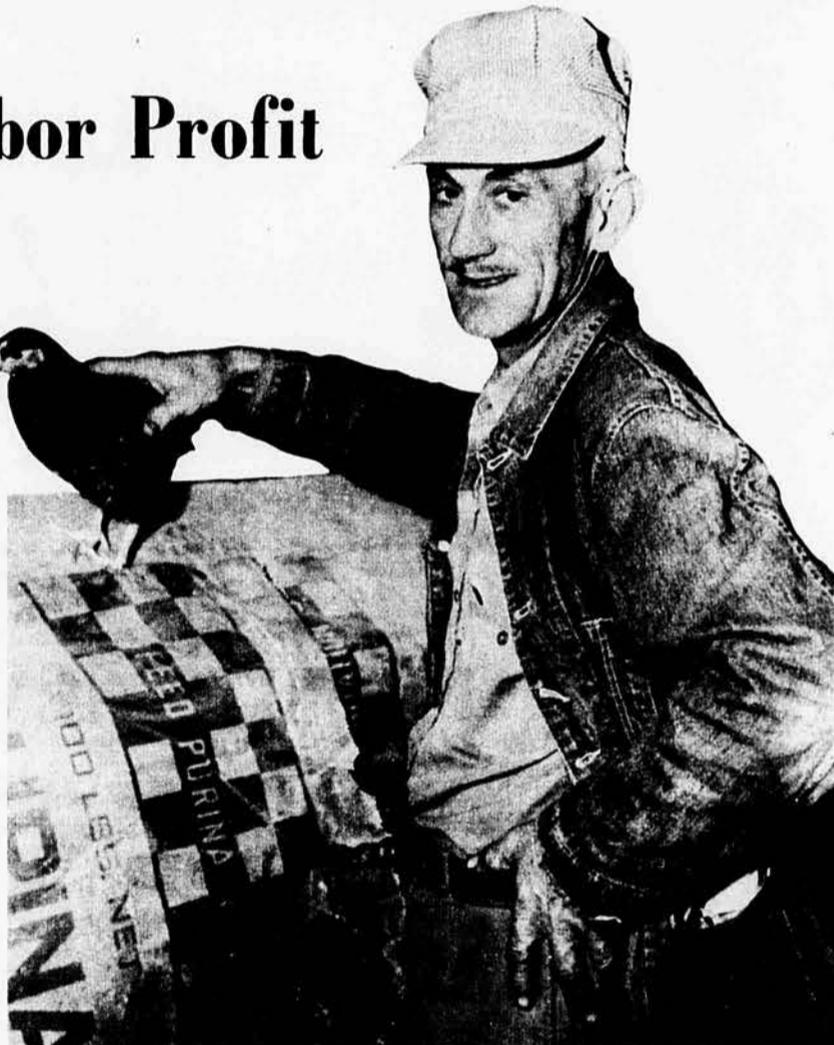
The standings in this contest were based on the average number of eggs per hen. The Reeps' hens averaged 206 eggs for a 10-months' period, for second place. On this basis the flock produced almost 250 eggs for the year.

I visited the Reep farm last April, and their chicks were already over 2 months old. "A lot of people think chicks can't be started until late spring," he explained, "but we had ours in this year on February 5.

"We want to get 'em in early so they'll be in good production



Every poultryman is familiar with variation in egg size. Reep is very particular about his entire operation. Careful grading and packaging of eggs adds to his profits.



Just a few weeks old, this pullet is well on her way to a productive life. Reep is thinking of all the eggs she'll lay in the fall when prices are usually best.

when the best price egg months roll around in the fall. That's the time to really have your hens working for you."

But Reep emphasized that there's more to hitting the fall egg market than just getting the chicks in early. "The pullets must be in body condition to start laying early," he points out. "That's why we like the Purina program. I think Purina is very good feed, and our mortality has been lower than on other feeds we've used."

This Wichita couple supply eggs to a hatchery in Sedgwick during the hatching season. In the off season they sell on the market, from the door and to cafes. The hatcheryman reports that their eggs average 84% hatchability, bringing them a bonus.

Reep feeds Purina Breeder Lay Chow and grain during the hatching season for its extra vitamins and minerals. In the off season he switches to Lay Chow and grain. Last summer

he candled 2,000 eggs before he found a bloodspot on a yolk.

This year when the cold winter winds were still whipping across Kansas, the Reeps were busy putting their baby chicks in. They're sold that chicks started early mean extra dollars in the fall.



Mrs. Reep plays a leading role in this poultry operation, too. She helps out with the accurate records they keep... one of the most important phases of any farm.



Grow 'em right FOR TOP PROFITS NEXT FALL

High-efficiency growing ration develops good pullets at low cost

THE EGG market picture looks bright for 1953. U. S. authorities estimate the present hen and pullet population is 39 million under the average of the past 10 years—15 million under last year's count. Even though hens in 1953 will lay a few more eggs per bird than ever before, it is likely that there will still be millions *less* eggs on the market than there were in 1952. This condition is bound to last until October or November, and should mean higher egg prices for the wise poultry farmers who have pullets ready to lay lots of big eggs by early fall.

GET GOOD CHICKS. First, it's important to start chicks early so they will develop in time to lay lots of eggs during the fall season of peak prices. Egg prices are normally at least 10¢ a dozen higher during September, October, November, and December than they are after the first of the year. Prices may be even better this year because of the decline in hen population.

Second, you'll make more money with healthy chicks bred for good production. Your Purina dealer specializes in this kind or can suggest a good hatchery. The original chick price is only a small part of the total cost of producing a laying hen. A flockowner can't afford to feed birds up to the laying season, only to find he has many culls or low producers.

While you're at your Purina dealer's store, get all the sanitation products and brooding equipment needed to get chicks off to a good healthy start.

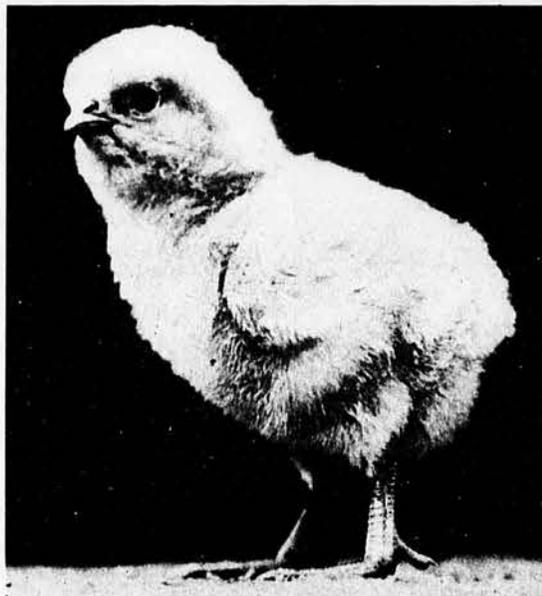
Chek-R-Tabs in the drinking water for the first 4 weeks help cut down the spread of disease. The Chek-R-Tabs will kill most common germs. Don't forget to disinfect the brooder, feeders and waterers. One pint of Purina Disinfectant will take care of the brooder and all equipment needed for 200 chicks.

Thoroughly clean and rinse all surfaces and equipment before applying the Disinfectant.

FEED GOOD STARTER RATION. For life and fast growth, start chicks on Purina Chick Startena. It's been America's favorite chick starter for 30 years, because it does such a fine job.

Startena is now better than ever, because of the addition of Formula "1028" and the new Checker-Ett form. Formula "1028" is our own blending of the miracle growth promoters, including antibiotics and the growth vitamins. The one right combination was found by 1,028 separate feeding tests—and it *does* make a difference in vigor and growth. Poultrymen report these advantages for Checker-Etts: 1. Fast growth due to high palatability. 2. High livability, because chicks get on feed quickly. 3. Easier to pour. 4. Less waste and spillage from feeders.

BUILD FOR MORE EGGS. It takes more than early starting to get pullets ready for heavy production when prices are highest in the fall. Birds must stay on feed and develop fast. These are the pullets that should produce the most large eggs in September and October—months when big eggs usually bring the highest premium. During these months last year, large eggs brought 13 cents more than mediums, according to a U. S. market survey. But just



4 months later, there was only a 3½ cent spread between large and medium eggs.

Most Purina dealers in heavy grain areas are equipped to grind your grain and mix it with Purina Chowder concentrate to make a good growing ration. They will grind the grain for a minimum cost, then mix in Chowder according to formulas proved by Purina research.

Do you think a good pullet is worth 15 to 20 cents cash outlay? That's all it takes to pay for the 2 to 3 pounds of Chowder concentrate needed to develop a big ready-to-lay pullet when mixed with your grain. Just a half dozen eggs will pay the entire cost.

If you prefer a ready-mixed mash, keep Purina Growing Chow, either Checker-Etts or Mash, in hoppers at all times. Keep grain in other hoppers. Or hand-feed twice as much grain as birds consume of the Growing Chow. It only takes 6 or 7 pounds of Growing Chow, fed with grain, to grow out a pullet. The cash outlay for Growing Chow usually is less than 40¢ per pullet.

A new product for AIR SAC DISEASE

Chek-R-Aid, a new product just released by Purina research, is a valuable help in the control of air sac disease of chickens. It is a feed base, with a high fortification of antibiotics and certain vitamins. Chek-R-Aid replaces all feed during the treatment period, which extends for 3 to 5 days, or until birds are back on full feed.

As you know, air sac infection causes a drop in feed consumption followed by a serious loss of weight. Since Chek-R-Aid is a complete feed and highly fortified with vitamins, it will supply more than adequate levels of these essentials during a drop in feed consumption. This is the first important step in controlling the disease. The second is to get birds back on feed. Two ingredients in Chek-R-Aid, in addition to the fortified base, act as appetite stimulants.

The third function of Chek-R-Aid is to control infection in the birds. This is done by an abundance of vitamin A, Aureomycin and para-aminobenzoic acid.

Don't forget—replace all feed with Chek-R-Aid at the *very first sign* of symptoms, especially a drop in feed consumption and slight coughing or sneezing.

Purina Research



Research farm sows and those owned by many Purina plan feeders regularly wean 9 or more pigs per litter. On a 2-litter basis this is around 5 pigs more than the U. S. average.

MARKET HOGS FASTER, SAVE FEED AND LABOR



GIL FRONING, Manager, Hog Unit, Purina Research Farm

THE QUICKER hogs can be sent to market, the greater the savings in feed and labor. On our program thousands of hog men are sending hogs to town at 5½ months weighing 225 lbs. This is a lot of time and feed saved when you consider that most hog men still take about 8 or 9 months to get a hog to this size.

But here's a word of caution—don't wait until next fall to start thinking about marketing your hogs in a hurry. Plan your short cuts from the time your pigs are farrowed.

Our research shows that the bigger the pigs at weaning, the heavier they'll be on market day. This chart shows the value of heavy pigs at weaning.

WEANING WEIGHT	MARKET WEIGHT AT 5½ MONTHS
25-30 lbs.	188.4 lbs.
30-40 lbs.	203.6 lbs.
40-50 lbs.	219.5 lbs.

At the Research Farm we've been producing pigs that average 47.62 lbs. at weaning since we've added Pig Startena to our regular hog program. This is a big difference when you figure that the estimated U. S. average weaning weight is only 30 lbs.

Looking at it from another angle, our Pig Startena litters have a total weight of 386.09 lbs.—just a fraction less than twice the weight of U. S. average litters. Because most hog men wean only 6.44 pigs weighing only 30 lbs. each, average litter weights would be only 193.2 lbs. So the difference between average litter weights and those of the Research Farm is 192.89 lbs.

Because of results like these at the Farm and equally good results on thousands of farms across the country, we've added Pig Startena to our regular hog program. We recommend that Pig Startena be creep-fed from 2 weeks of age through weaning at 9 weeks.

Pig Startena is a complete feed, containing "miracle growth boosters" needed to give pigs a fast start. Its contents of antibiotics, vitamins and minerals stimulate appetites and growth. Pig Startena is recommended for all pigs. It will help both the good-doers and the poor-doers... and it's economical to feed, too.

A REPORT ON SOW MILK REPLACERS

Purina researchers were among the early pioneers to do work on sow milk replacers. They have experimented with various formulas plus management and sanitation programs for raising young pigs away from the sow. They have also run tests on the time of breeding, conception rates, and nutrition of the sows.

Results with pigs on many test formulas have been "up and down." Normal growth was obtained in several tests, but cost was high in comparison to Purina's regular hog program.

As to the breeding problem, Purina results agree with many college findings which indicate sows will not normally produce 3 litters per

year. Purina will continue research to see if the basic problems can be overcome.

Sows at the Research Farm and those owned by thousands of Purina feeders average over 9 pigs weaned per litter. In 1951 the average U. S. litter saved was 6.44 pigs. The big challenge for the average hog man today, then, is to save more pigs per litter.

If 3 litters a year are some day possible, hog men will need to raise more pigs per litter than the '51 average of 6.44. In 2 litters, sows at the Purina Farm are now weaning about 18 pigs per year—with less labor and equipment than would be required to produce only 1½ more pigs in 3 of the average litters.

How to FEED PURINA NURSING CHOW

The new dairy calf program calls for Purina Nursing Chow from 3 days until calves are 1 month old. Nursing Chow takes the place of all the milk a calf normally requires during this period. And it saves lots of money—costing only about half as much as the milk.

The milk replacer grows out calves that are heavier and growthier than those on milk. Just feed the gruel twice a day at 100° F. Large breeds need 1 gallon of the gruel per day for 3 weeks, and ½ gallon the 4th week. Small breeds should get 3 quarts per day for 3 weeks and 1½ quarts the 4th week.

Start self-feeding dry Calf Startena along with Nursing Chow when calves are 3 days old. By the time they are 30 days old, they're eating Calf Startena readily and need no Nursing Chow gruel.



Using measuring glass that comes in bag, put ½ pound of Nursing Chow in ½ gallon warm water for one feeding. It's best to add just enough water to make a paste at first, then add rest of water.



Much labor is saved by mixing gruel for several calves at one time. Large thermometer comes in handy for checking temperature of gruel. If gruel gets too cold, set bucket in large tub of hot water.



Calf stanchion unit can be made large enough to handle all calves at once. Door spring holds filled bucket so calf can reach all gruel and won't spill it. It's easier to clean pen if stanchion unit is portable.



FIND YOUR PURINA DEALER LISTED HERE

"Stop by and see me soon," says Beautena. She's the cute little dairy heifer many Purina dealers are raising right in the store. This year Beautena has challenged all dairymen to a contest—just to see if their own calves can beat her rate of growth. This contest, will be lots of fun to watch. Keep up with Beautena by visiting your Purina dealer's store often.



Take your feeding problems to your friendly Purina Dealer

KANSAS

- ABBEVILLE, The Farmers Grain Co., Inc.
- ABILENE, Gordon Mark Elevator Co.
- ALDEN, Farmers Coop. Assn.
- ALMA, Schutte Produce
- ANDALE, Andale Farmers Elevator
- ANDOVER, S. Dack
- ANTHONY, Thurman Hatchery
- ARGONIA, Botkin Grain Co.
- ARKANSAS CITY, Arbuckle's Hatchery & Fd. Co.
- ASHLAND, Wallingford Elevator
- ATCHISON, Berry Bros. Hatchery
- ATTICA, Imperial Flour Mills Co.
- AUGUSTA, Furlong Hatchery & Feed
- BALDWIN, Hardy's Hatchery
- BALDWIN, Hunt Farm Supply
- BAXTER SPRINGS, Gains Feed Store
- BELLE PLAINE, Halls Produce & Feed
- BELLEVILLE, Hall Mill & Elevator
- BELOIT, Jones Feed & Seed Co.
- BLUE MOUND, Mulkey Produce
- BONNER SPRINGS, Bonner Feed & Fuel Co.
- BURLINGTON, Salsby's Feed & Seed Store
- BURNS, Burns Feed Store
- BURRTON, Hensley Oil & Feeds
- CANEY, Halligan Feed & Produce
- CANTON, Canton Grain Co.
- CARBONDALE, Servis Grain Co., Inc.
- CEDARVALE, L. C. Adam Mercantile Co.
- CHANUTE, Farm Service Store
- CHENEY, Ball Produce & Hatchery
- CHERRYVALE, Cheryvale Grain Co.
- CHETOPA, Karns Grain Products Co.
- CLAY CENTER, Gordon Mark Elevator
- CLEARWATER, Hugh R. Wilk
- CLYDE, Darusseu's Hatchery
- COFFEYVILLE, C. C. Feeders Supply
- COLBY, Thomas County Grain Co.
- COLDWATER, Wallingford Grain Corp.
- COLUMBUS, Columbus Hatchery
- COLWICH, Andale Farmers Elevator
- CONWAY SPRINGS, Farmers Union Coop. Assn.
- COTTONWOOD FALLS, Schoap Poultry & Egg Co.
- COUNCIL GROVE, Scholes Feed Store
- DELEVAN, Farmers Grain & Supply Co.
- DENISON, Farmers Elevator
- DESOTO, Goodrum Grain Co.
- DODGE CITY, Casterline Grain & Seed, Inc.
- DWIGHT, Dwight Feed Co.
- EDGERTON, Edgerton Grain Co.
- EDNA, Edna Produce
- EL DORADO, The Home Grain Co., Inc.
- ELK FALLS, O & B Oil Co.
- ELKHART, Elkhart Coop. Equity Exchange
- ELLIS, The Wheatland Elevator
- EMPORIA, Peak Feed & Seed Co.
- ESBON, Esbon Feed & Seed Co.
- ESKRIDGE, Converse Farm Service Co.
- EUREKA, C. T. Agrelus Feed Co.
- FONTANA, Barnes Feed & Seed Store
- FORD, Security Elevator Co.
- FT. SCOTT, Chas. Leist Feed & Seed Co.
- FREDONIA, Cox Produce & Grain Co.
- GARDEN CITY, Western Terminal
- GARDNER, Gardner Grain Co.
- GARLAND, Pfaffner Produce
- GARNETT, A. H. Fawkes & Sons
- GAS CITY, Goodsell Hatchery
- GIRARD, Potter's Hatchery
- GLADE, Quanz Grain Co.
- GOODLAND, Terminal Grain Co.
- GREAT BEND, Barton County Hatchery
- GREELEY, Rommelfanger Produce
- GREENSBURG, Security Elevator Co.
- GRENOLE, Gwinup's Produce
- HALSTEAD, Farmers Coop. Grain & Merc. Co.
- HAMMOND, Bruce General Mds.
- HARTFORD, The Kansas Sova Products Co., Inc.
- HARPER, The Imperial Flour Mills Co.
- HARVEYVILLE, Harveyville Grange Coop. Business Association
- HAYS, Engel Hatchery
- HAYSVILLE, Haysville Elevator & Supply Co.
- HERINGTON, Continental Grain Co.
- HIAWATHA, Wolf Feed & Grain Co.
- HIGHLAND, Moore Farm Supply

- HILLSDALE, Fessenden Grain Co.
- HOLTON, Farmers Union Coop. Assn.
- HOPE, The Farmers Coop. Elev. & Sup. Co.
- HUGSBTON, Security Elevator Co.
- HUMBOLDT, Humboldt Coop. Assn.
- HUTCHINSON, Berry's Hatchery & Feed Store
- HUTCHINSON, Orih's Feed & Seed Co.
- HUTCHINSON, Salt City Hatchery
- HUTCHINSON, Security Elevator Co. B.
- INDEPENDENCE, Star Mill Co., Inc.
- IOLA, Allen County Feed & Prod.
- IONIA, Ionia Produce
- JUNCTION CITY, Hart Barlett Sturtevant Gr. Co.
- KANOPOLIS, George Andrews
- KANSAS CITY, Brougham Feed Co.
- KANSAS CITY, Crawford Hatcheries
- KANSAS CITY, Dyer & Co.
- KANSAS CITY, Midwest Hatchery
- KANSAS CITY, Precht Feed Store
- KANSAS CITY, State Ave. Merc. Farm Store
- KANSAS CITY, Frank Wells Feed Store
- KANSAS CITY, KANS., Busch's Feed Store
- KANSAS CITY, KANS., Precht's Feed & Seed, 740 Kansas Ave.
- KANSAS CITY, KANS., Rockhill Market, 4710 Metropolitan
- KENNINGTON, Levin Bros.
- KINCAID, Dunlap Produce
- KINGMAN, Goenner Hatchery
- KIOWA, OK Coop. Grain & Mercantile Co.
- LA CROSSE, Farmer's Union Coop. Merc. & Elev. Co.
- LA CYGNE, Farmers Produce
- LANE, Gerth's Breeder Hatchery
- LATHAM, Snyder Produce
- LAWRENCE, Caldwell Hatchery
- LAWRENCE, Douglas County Hatchery
- LEAVENWORTH, Hibbs Farm Service
- LEBANON, Independent Oil Co.
- LEBO, Lebo Grain Co., Inc.
- LENEXA, Jennings Feed & Coal Co.
- LEOTI, Herb J. Barr & Sons Grain & Supply Co.
- LIBERAL, Security Elevator Co.
- LITTLE RIVER, Thompson Produce, Inc.
- LOGAN, The Logan Grain Co.
- LOUISBURG, Owens Feed & Produce
- LYONS, Lyons Independent Produce
- MAIZE, Maize Mills, Inc.
- MANHATTAN, Johnmeyer Feed & Seed
- MANKATO, Levin Bros.
- MARION, Seymour Packing Co.
- MARQUETTE, Rodney Milling Co.
- MARYSVILLE, Muchow-Richter Impl. Co., Inc.

- MAYETTA, Farmers Union Coop. Assn.
- McLOUTH, McLouth Grain Co.
- McPHERSON, Community Feed & Seed
- MEDICINE LODGE, The Imperial Flour Mills Co.
- MERRIAM, Merriam Feed Store
- MICHIGAN VALLEY, Bulmer Grain Co.
- MINNEAPOLIS, Golden Rule Hatchery
- MINNEOLA, Minneola Coop. Exchange
- MONTEZUMA, Security Elevator Co.
- MONUMENT, Wheatland Elevator
- MORAN, Benbrook Produce
- MORSE, Morse Grain Co.
- MOUND CITY, Ward Produce
- MOUNDRIE, Moundridge Coop. Elev. Assn.
- MT. HOPE, Independent Produce
- MULVANE, Moore Grain Co.
- MUNCIE, J. E. Puett
- NEODESHA, Shacklett Hatchery & Feed
- NEWTON, Berry's Feed & Supply Store
- NICKERSON, Farmers Coop. Elevator Co.
- NORTON, N. L. Johnson Grain Co.
- NORWICH, Goenner Hatchery
- OAKLEY, Wheatland Elevator
- OBERLIN, Earl C. Wilson & Sons
- OLATHE, Farmers Coop. Union
- OSAGE CITY, Lafferty Grain & Produce Co.
- OSAWATOMIE, Osawatomie Feed & Produce Co.
- OSBORNE, L. M. Newman
- OSKALOOSA, Oskaloosa Feed Store
- OSWEGO, Karns Grain Products Co.
- OTTAWA, Ottawa Produce Co.
- OVERLAND PARK, Jennings Feed & Coal
- PAOLA, Washburn Hatchery
- PARKER, Lockhart Station
- PEABODY, Peabody Coop. Equity Exchange
- PECK, Moore Grain, Inc.
- PENALOSA, E. W. Tarrant
- PERRY, Heck & Seyler
- PIQUA, Niemann's Store
- PITTSBURG, The Potter Hatcheries
- PLEASANTON, Pleasanton Mill & Elevator Co.
- PORTIS, Woller's Lumber Co.
- PRATT, Pratt Equity Exchange
- PRETTY PRAIRIE, Security Elev. Co.
- PROTECTION, Park Hatchery
- RICHMOND, Farmers Home Coop. Merc. Society
- SABETHA, Sabetha Coop. Produce Co.
- SAFFORDVILLE, North Grain Co.
- ST. FRANCIS, Roylston & Son
- ST. MARYS, Farmers Union Coop. Assn.
- SALINA, McMinn & Tanner Feed & Produce

- SAVANAH, Savannah Feed Store
- SCOTT CITY, Durrant Seed & Supply
- SEDAN, Sedan Seed House
- SEDGWICK, Behymers Sedgwick Hatchery
- SEDGWICK, J. O. Coombs & Son
- SEVERY, Arnold & Colyer
- SHARON, The Imperial Flour Mills Co.
- SHAWNEE, Shawnee Hatchery
- SPRINGHILL, Springhill Grain Co.
- STAFFORD, Stafford Hatchery
- STANLEY, Boyd & Maelzer
- STERLING, Farmers Coop. Union
- STILWELL, Mosey & Son Store
- STOCKTON, Bouchey Grain Co.
- SUMMERFIELD, Muchow-Richter
- SYLVIA, Sylvia Coop. Assn.
- THAYER, Potter Locker and Feed Store
- TONGANOXIE, Trospen's Feed Store
- TOPEKA, Emery T. Shimer Feeds & Seeds
- TOPEKA, J. R. Shimer
- TRIBUNE, Tribune Grain Co.
- TROY, Winzer Hdwe.
- TURON, Turon Hatchery
- VALLEY CENTER, Valley Center Farmers Elevator Co.
- VALLEY FALLS, Reichart Elevator
- VIRGIL, Virgil Feed & Coal
- WAKEENEY, The Wheatland Elevator
- WATERVILLE, Wagar Produce
- WATHENA, Wathena Hatchery
- WAVERLY, J. R. Baxter Produce
- WELLINGTON, Newell's Feed Store
- WELLSVILLE, Averill Produce
- WHITE CITY, White City Grain Co.
- WHITEWATER, Whitewater Hatchery
- WICHITA, C. Ball Feed Co.
- WICHITA, Hillside Feed & Seed Store
- WICHITA, Berry's Hatchery & Feed Store
- WICHITA, Kellogg Brothers Feed & Seed
- WICHITA, Maxwell Feed & Hatchery
- WICHITA, Waits Grain & Feed Co.
- WILLIAMSBURG, Williamsburg Produce
- WILSEY, F. S. Riegel
- WINFIELD, Wallace Feed Store
- WINONA, Wheatland Elevator
- WOODBINE, Reed's Store
- YATES CENTER, Yates Center Elevator Co
- ZARAH, Zarah Grain & Elev.
- ZENDA, The Goenner Hatchery
- ZENITH, The Zenith Cooperative Grain Co.



Wilbur Aspinwall, Nortonville, Kansas, in feed lot conference with Purina Salesman A. H. McDonald. Purina feeder Aspinwall feeds out 700 head of cattle per year on a commission

basis for Joe and Felix Corpstein. The Corpsteins know what Purina will do. They recall one year when they topped the market with 28 out of the 32 carloads of cattle they sold.



Many Kansas readers have inquired where they may hear Purina's Eddy Arnold Program. There are a number of stations throughout the state that broadcast Eddy's programs. Eddy is now on the NBC Network Saturday nights at 9 on:



EDDY ARNOLD

WDAF, Kansas City, Missouri
KOAM, Pittsburg, Kansas

He is also heard on the following stations.

KWBW, Hutchinson, 11:30 a.m., Sat.
K GAR, Garden City, 12:40 p.m., Mon. through Fri. and 5 p.m., Sun.

In addition to entertainment on the Eddy Arnold Show, your Purina dealer presents farm information and market news on a number of Kansas stations. Here's a schedule of such programs that offer community service:

KXXX, Colby, Ed Mason's Market Report, Mon. through Fri., 12:45 p.m.
WIBW, Topeka, Wes Seyler, Noon Markets, 12:20 p.m., Mon. through Sat.
Wes Seyler's Farm Forum, 8 a.m., Sun.

CALAMITY CAL...

by ed smyth + bill sims

WHAT'VE YOU DONE ABOUT LINING UP A BULL, CAL?

NO RUSH, PROSPER. MY OLDEST HEIFERS'RE ONLY 15 MONTHS.

MINE TOO... BUT MINE ARE BRED.

MIGOSH!! HE BREEDS 'EM WHEN THEY'RE JUST BABIES!

MY HOLSTEINS WEIGH 750 POUNDS... THEY'RE PLENTY BIG. IT'S NOT AGE, BUT SIZE AND BODY DEVELOPMENT THAT COUNTS.

BY GOLLY, PROSPER'S CALVES'LL PIV FOR THEMSELVES IN MILK BEFORE MINE EVEN FRESHEN! WONDER HOW THAT HAPPENED?

BULKY LAS BULKY LAS BULKY LAS

Thoughts TO LIVE BY

"To Worship Rightly"

THE MANY FORMS of worship suggest the universality of the desire to live in close harmony with God. Some worshippers measure their length, falling forward and rising and repeating this ritual countless times as they make a holy pilgrimage. Some use mechanical devices to say their prayers, others read classical prayers, and still others make up their own. Altho he may be reluctant to admit it, there is reason for believing, at one time or another, every man prays. His disciples were so impressed by the matchless life of Jesus they looked for the secret of His success. One of them must have suspected that a big difference between His life and theirs was the praying of Jesus. So he asked the Master to teach them to pray. The model prayer Jesus set forth is known to us as "The Lord's Prayer."

Not only did Jesus give the disciples verbal guidance, He also liberated prayer from erroneous concepts and customs. The Samaritans thought prayer should be made on Mount Gerizim. To the woman at the well, Jesus said, "Woman, believe me, the hour is coming when neither on this mountain nor in Jerusalem will you worship the Father. . . . But the hour is coming, and now is, when the true worshippers will worship

the Father in spirit and in truth, for such the Father seeks to worship Him." That released prayer from geographic boundaries. In Jerusalem, worshippers were pressed into purchasing approved animals and temple coins for their sacrifices, it is implied, at an exorbitant price. Jesus overturned the table of the money changers and drove the cattle out of the Temple, saying, "Is it not written, 'My house shall be called a house of prayer for all the nations'? But you have made it a den of robbers." Here He freed prayer from commercialism.

To be sure, there are some places more conducive to prayer than others, and there are aids to prayer, but prayer is not dependent upon either location or properties.

John Greenleaf Whittier wrote about practical prayer. Like Jesus, he puts arms and legs on prayer and lets it go wherever it can be of service.

*"O brother man, fold to thy heart thy brother;
Where pity dwells, the peace of God is there;
To worship rightly is to love each other,
Each smile a hymn, each kindly deed a prayer."*

—Larry Schwarz.

Here's Help for You in Growing Everything From Elms to Strawberries

By WILLIAM G. AMSTEIN, Kansas State College

THERE ARE SEVERAL new items in horticulture likely to be of interest to many gardeners for years to come. This is especially true in the field of ornamental plantings. Not all developments will provide immediate returns, but they do offer many profitable items for future consideration and use.

Diseases of elm trees have been of considerable concern in recent years. Two elms resistant to both Dutch elm disease and phloem necrosis are now becoming available. Phloem necrosis is a disease of special concern in many Eastern and Central Kansas counties. These 2 elms with resistance are Siberian and a selection of the European elm called Christine Buisman. Cuttings of this latter elm are now being grown by many nurserymen. In a year or two these trees should be available for general planting.

Hazard to Ornamentals

It appears nematodes are proving a hazard to many ornamental plants, as well as injuring other plants. Many of our troubles with African violets, for example, are thought due to nematodes. Leaf cuttings, unless made with extreme care, may be the means by which nematodes are spread in this interesting house plant. Attention is being given to soil fumigation methods to cut down the spread of nematodes in house plants as well as in garden and field locations.

Many years we are concerned with loss of strawberry plants, as well as the low yield in plants that do manage to survive. Tests are showing virus diseases are the cause of loss in these plantings. Considerable work is underway to develop tests that will help detect plants carrying this virus condition.

Up to now virus-free stocks of 12

standard varieties have been selected. These are sent to leading nurseries so they can be increased and distributed to customers thruout the country. For example, it has been found the new Missouri strawberry variety Armore is virus-free. Proper steps have been taken to keep this variety virus-free so disease-free plants will be available.

In many Central and Western Kansas counties chlorosis is a problem that results in a yellow or light-green foliage. Work on plant nutrition, including use of special chemicals such as iron sulphate and similar materials, has given good results.

Chemicals Gain in Use

Growth regulating chemicals of various types to do a variety of jobs are gaining in use. For example, at bloom time or shortly after many peach and apple orchards will be sprayed with hormones to reduce or thin the 1953 crop. At the same time, in the case of apples, the chance for a fair-size crop in 1954 will be provided. One of our big Midwest apple problems has to do with alternate size crops. Any practice that will help to even the average size crop will prove very helpful. In 1952 we had a very small apple crop while in 1953 we expect too large a crop.

Later at harvest time this same chemical will be used to provide better sticking qualities for the ripening apple crop.

Other chemicals have been developed that are used to promote rooting of cuttings or as a material to control weeds. Likewise, soil conditioners are coming into practical use stage for improvement of many soils and to handle other soil problems. The cost may not be as great a barrier to their general use as was earlier anticipated.

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Dwight Hull SAYS . . .

What Keeps Average Family From Using Enough Milk?

MILK IS ALMOST universally recognized as being our most perfect food. Milk products such as butter, ice cream and cheese also are considered standard of excellence among foods. Despite the reputation milk and milk products have as food, there have developed several factors which tend to keep the average family from using adequate milk products for good health and economy in diet.

One factor or reason is many consumers have a feeling milk is an expensive item in their diet, therefore limit its use to whatever they consider bare necessity. This is rather understandable since newspaper accounts and many radio announcements regarding high cost of living point an accusing finger at milk, using as their evidence that milk prices have advanced one cent a quart.

Since there is virtually no publicity to refute the idea that milk is expensive, the consumer naturally assumes milk is an expensive item.

You Need These

There are 5 fundamental foods in a diet: protein, fat, carbohydrates (starches and sugars), vitamins, and minerals. Of these 5 foods, proteins of high quality and quantity to meet our needs seem most important. Information I get reading the United Nations reports indicates the world food shortage is actually a protein shortage. If all the animal fats, vegetable oils and carbohydrates produced each year were used for human consumption, there would be more than could be eaten. And while vitamins and minerals are important, very small quantities are needed, and are found in our foods or can be produced at very low cost. Proteins supply material for all our tissues, including vital organs, muscles, hair, skin, fingernails.

Reports show we in America con-

sume too little protein per person for our actual needs for maximum vigor and disease resistance. There are at least 1.5 billion people in the world who do not consume, because they cannot get it, nearly as much protein as we do. Milk and milk products are our cheapest source of high-quality protein as is shown by the chart on this page.

Milk protein in all forms is unexcelled in terms of safety, quality and acceptability. Yet according to this chart they sell for one half to one fifth the price enjoyed by other proteins listed. One authority estimates it would be possible for a family of 4 to save from \$300 to \$400 on their yearly budget by using more milk protein.

Right to Know Facts

Since about 60 per cent of a good diet is chargeable to protein, would it not be valuable to the consumer if he had available daily, quotations showing cost of protein in various food items. At least there should be some way for John Q. Public to determine which food is most expensive or inexpensive, and not have to rely upon unjustified propaganda or misguided information. The public has a right to know facts.

The dairy cow produces about 400 pounds of high-quality protein a year, while it takes 13 animal years for beef cattle to produce this amount. Therefore, since the dairy cow is the most efficient producer of protein we have, dairymen should take the lead in seeing that the consuming public has the facts that will overcome the idea that milk is expensive.

There are many thousands of people who do not drink or use milk for one reason or another, and standing at the top of these reasons is the one that milk is fattening. There is plenty of evidence to show milk is reducing and not fattening. We want to discuss this further in the next issue of *Kansas Farmer*.

Estimations of Price per Pound of Protein

Food	Price per lb.	Per Cent Protein	Est. per lb. Protein Paid by Consumer
Round steak	\$1.05	17.6	\$5.97
Ham, cured	.60	14.6	4.10
Chicken, frier, ready to cook, with bone	.65	15.	4.33
Pork chops	.70	13.3	5.26
Eggs, per dozen	.50	11.4	3.06
Whole milk, per quart	.20	3.5	2.66
Cheddar cheese	.65	25.	2.60
Cottage cheese	.30	19.5	1.54
Dry milk	.35	35.	1.00

Marketing Viewpoint

Leonard W. Schruben, Feed Grains

I have some wheat under loan that is stored on the farm. Should I sell it right away?—J. M.

You will need to take into account several things in deciding when to sell your wheat. One of the most important is whether the wheat will keep in condition. The grain sanitation program now underway requires that wheat be free from insect, rodent, and other contamination in order to be used for human consumption. Wheat will have to be kept clean or sold at feed grain prices. This means a 50-cent to 70-cent discount per bushel. However, with proper care, wheat stored in farm bins will not become contaminated. Your county agent can give you help on this

problem and there are helpful bulletins. Another thing to consider is possible price changes. Altho I look for prices to show some strength by mid-April, it is doubtful whether they will exceed the loan rate by more than a few cents. You already have secured a price guarantee thru the loan, so you are not taking much risk if prices drop. Assuming your wheat will not deteriorate in storage, there is little advantage to be had in selling below the loan rate.

Does ill health result from eating bread made from wheat containing insect or rodent contamination?—W. E.

The above question was recently asked the Food and Drug Administration and the answer was received as follows: "... you ask if we know of any case of ill health or disease which was proven to have resulted from eating bread made from wheat containing insect or rodent contamination. We do not have knowledge of any such authenticated case."

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HELP!

Place Your Help Wanted Ad in **KANSAS FARMER**

Classified Rate: 10c a word, 12 words minimum.

Personal To Women With Nagging Backache

Nagging backache, loss of pep and energy, headaches and dizziness may be due to slowdown of kidney function. Doctors say good kidney function is very important to good health. When some everyday condition, such as stress and strain, causes this important function to slow down, many folks suffer nagging backache—feel miserable. Minor bladder irritations due to cold or wrong diet may cause getting up nights or frequent passages. Don't neglect your kidneys if these conditions bother you. Try Doan's Pills—a mild diuretic. Used successfully by millions for over 50 years. It's amazing how many times Doan's give happy relief from these discomforts—help the 15 miles of kidney tubes and filters flush out waste. Get Doan's Pills today!

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THE SHEFFIELD

FENCE RIDER

PUBLISHED IN THE INTEREST OF GOOD FENCING

HERE'S HOW FENCES FORCE CATTLE TO MAKE FASTER GAINS

By A. B. Kennerly

Do you ever wish you had more land and are unable to buy it for one reason or another?

Then stop bothering about the extra land and put some fences to work. They can do more for you at much less additional cost. Here are some ways farmers and ranchers are doing it.

Fencing off a small acreage of fescue and alfalfa in the blacklands, a cattle producer was able to make 1.60 pounds daily gain on his cattle grazing fescue and alfalfa as against .93 pound per day on KR bluestem and Johnson grass on severely eroded land.

A farmer who tried buffel grass in South Texas found that his cattle were not making the best use of the grass in grazing it. He took the problem to his county agent.

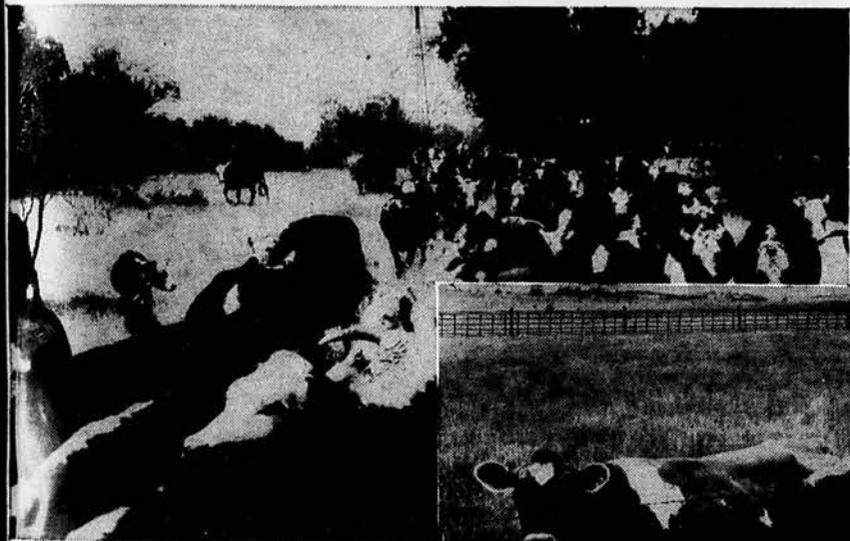
"Cross-fence your field," the agent told him. "Crowd the cattle to make them eat every blade of grass."

tem of rotation grazing. Old-timers like Holman Cartwright who bought his 17,000-acre Twin Oaks Ranch in Live Oak County, Texas, back in 1912, are criss-crossing their ranches with grass-saving fences. Once divided into four big pastures, Cartwright's ranch is now divided into 42 different pastures, about half of them under irrigation. He carries more cattle, and gets them to a higher degree of finish than ever he could with his four-pasture setup. Saves a deal of time in working the cattle, too, according to his foreman.

Pens Illustrate It

What can be done with small, temporary pastures against larger grass pastures was illustrated with two pens of cattle at the Beeville Experiment Station recently. Superintendent Bob Hall showed me a pen of 18-month old calves that had been grazing oats and clover in winter and spring, and Sudan and sorghum stubble in summer and fall. Another pen contained 30-month old calves that had been grazed only on native grass pastures. There was only 80 pounds difference in the average weights of the two pens of calves. Saved was about a year of grazing the cattle with only the cost outlay of temporary pasture crops—and a few fences.

It's a new song the farmers and ranchers are singing. Its title is "Please fence me in."



FREE FENCE RIDER Farm Magazine

The above is a part of an article appearing in the current issue of Sheffield's Fence Rider magazine. Your whole family will enjoy the Fence Rider. Ask your nearest Sheffield Dealer to put your name on his free mailing list.

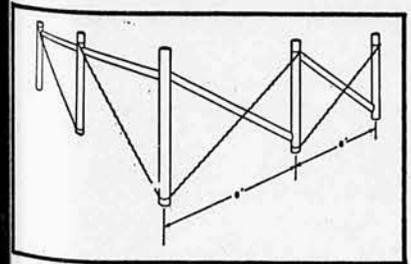
HERE'S A GOOD WAY TO STOP FENCE FAILURE

Pictured here are two good end or corner fence constructions—one of wood and wire, the other of steel and concrete which make about the strongest possible

post) is the strongest. Next strongest is horizontal wood braces with diagonal twisted brace wire (see at left of corner post). Anchor lugs attached near the bottoms of the posts will add resistance to frost heaving.

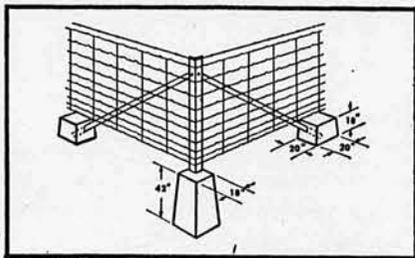
With steel posts, a single span diagonal steel brace gives plenty of strength if set in concrete and braced against a concrete peer as shown.

Send any fence building ideas you wish to see published.



ble end or corner assemblies. In the case of wood posts, smaller ones can be used if set deeper.

Always brace between two wooden posts instead of one. Wooden braces running diagonally and crossed with No. 9 twisted wire (see right of corner



The farmer built the fences and found that his cattle were making better gains from each acre of grass. Furthermore, it gave him an opportunity to rotate his grazing thus giving the grass a chance to come back after showers and make good growth.

Fencing Is Essential

Making one acre do the job of two is becoming more widespread as cost of operating the farm increases and as new methods of production are developed. But it's essential that farmers make a liberal use of fencing if they are to profit by these developments.

Temporary pastures of quick growing legumes and grasses are making the difference between profits and losses on many stock farms these days. They make ideal conditions for rotation grazing in pastures just large enough to meet the needs of cattle to be grazed.

It's not always the small stock farmer who takes advantage of this new sys-

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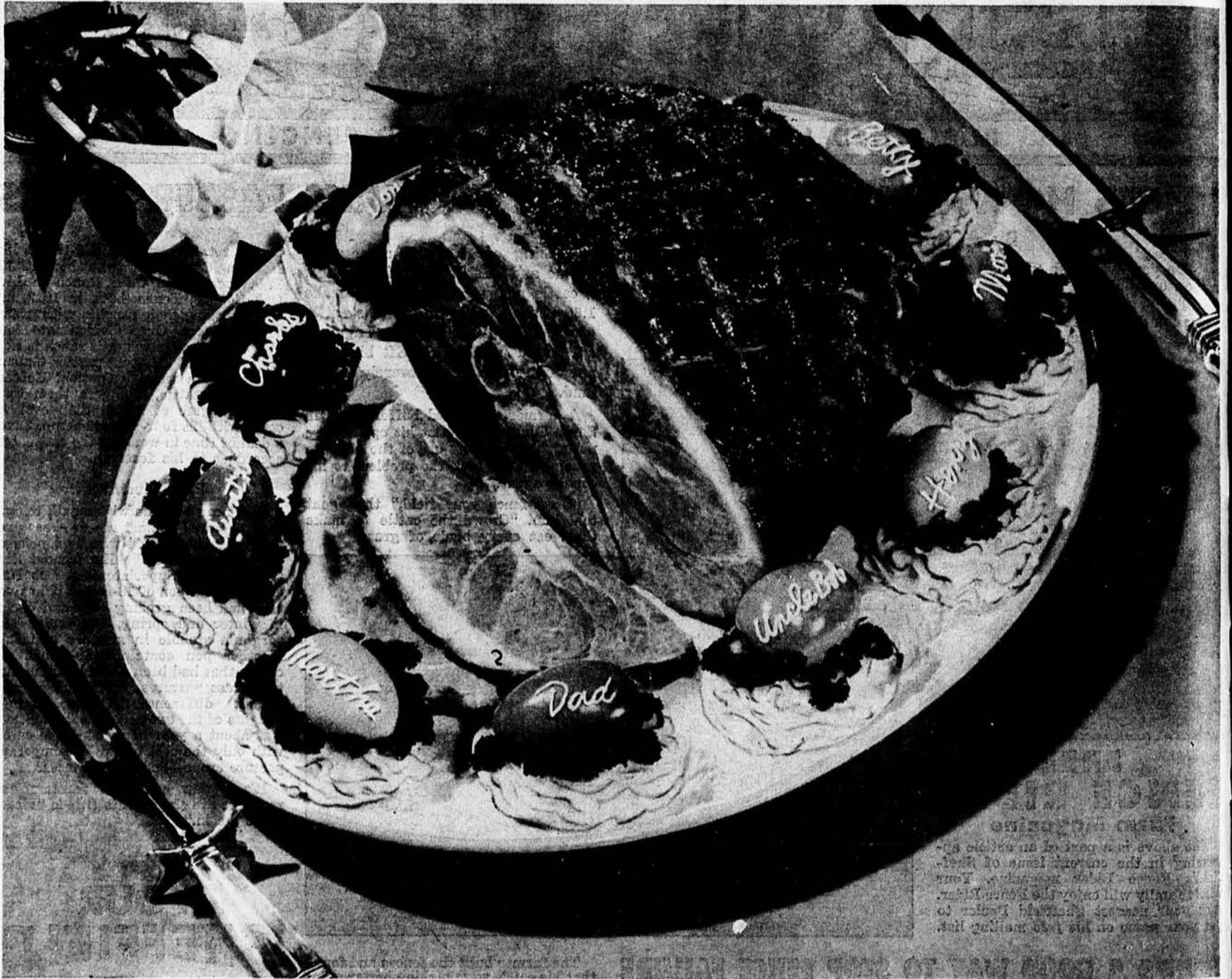


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Kansas Farm Home and Family

By FLORENCE MCKINNEY



GLAZE GIVES that Easter Sunday dressed-up look to the ham. Garnish with decorated gaily-colored Easter eggs, a little take-home gift for every diner.

Easter Calls for Ham

THERE is nothing quite like a tender, juicy baked ham for a traditional Easter meal. It looks good, smells good and tastes good. A whole or half ham is the perfect answer for the busy farm homemaker.

A mild-cured ham should be kept in the refrigerator and used within a week. Cured meats should not be stored in the food freezer. Some hams are already cooked and need only reheating 10 minutes for every pound.

Hams that are not cooked require more attention. Remove wrappings but not the rind. Rewrap loosely in heavy waxed paper, place fat-side up on rack in a shallow uncovered baking pan. Bake at 325° for about 15 minutes for each pound for large hams, about 18 minutes a pound for small hams and 25 minutes for each pound of a half ham.

Half an hour before done, remove paper, cut off rind, score the fat both ways as in picture, stud with cloves if desired and cover with a

glaze. The latter gives it the Easter dress. Use any of the following glazes:

Orange Glaze: Mix one cup brown sugar, juice and grated rind of one orange and spread over the fat surface. Finish baking. Garnish with orange slices on platter around the ham.

Honey or Molasses Glaze: Use one cup honey or molasses and spread over the ham. Stud with cloves. Finish baking.

Jelly Glaze: Mix one cup bright red jelly with about ¼ cup hot water and spread over fat surface of the ham. This forms an attractive red glaze. Stud with cloves or decorate with halves of candied cherries.

Spice Glaze: Use one cup brown sugar and one cup juice from spiced peaches, crab apples, ginger pears or sweet pickled peaches as the glaze. Garnish the platter with the whole pickled fruit.

Ham-Cabbage Casserole

When buying your ham, be sure it's large enough to give you several days eating pleasure. Besides fried or boiled ham slices, there are wonderful ways to use leftover ham. Ham with cabbage is one good suggestion.

1 cup chopped cooked ham	¾ cup milk
4 cups shredded cabbage	½ cup shredded cheese
2 tablespoons flour	1 tablespoon butter
	4 slices tomato

Cook cabbage 5 minutes in boiling, salted water. Drain. Alternate layers of cabbage with ham in buttered 1½-quart casserole. Sprinkle with flour and half the cheese. Heat milk and pour over. Dot with butter. Top with tomato slices (if in season) and sprinkle remaining cheese over all. Cover and bake in moderate oven (350°) for 25 minutes. Remove cover and brown for 5 minutes. [Continued on Page 31]

Scalloped Ham With Potatoes

- 1 cup cooked, cubed ham
- 4 cups sliced raw potatoes
- 8 green pepper rings
- 1 teaspoon salt
- 1/8 teaspoon pepper
- 1/4 cup finely chopped onion
- 2 tablespoons flour
- 1/2 to 3/4 cup milk

Alternate layers of potatoes, ham and green pepper rings in baking dish. Season with salt, pepper and chopped onion. Sprinkle flour over top, then add milk, cover and bake in moderate oven (350°) for 1 hour or until potatoes are tender. Remove cover and brush top with potatoes. Bake 10 or 15 minutes or until potatoes are brown. Serves 5 or 6.

Ham and Lima Bean Casserole

- 1 cup cubed, cooked ham
- 2 cups dry lima beans
- 2 teaspoons salt
- 1/4 teaspoon pepper
- 1/2 cup onion, finely chopped
- 1/2 cup chopped green pepper
- 2 tablespoons ham or bacon drippings

Soak beans overnight. (The beans

may be cooked for 20 minutes in boiling water and allowed to stand in that water for 40 minutes instead of soaking overnight). Add remaining ingredients to beans and place in baking dish or bean pot. Add about 1 to 1 1/2 cups water. Cover and place in moderate oven (325°) and bake for about 2 hours. Uncover the beans the last part of the baking period and brown them. Serves 5 or 6. With a tossed spring salad and drink it's a complete meal.

Ham Cheese-Burgers

- 4 thin slices cooked ham
- 4 round buns
- 2 tablespoons butter
- 3 tablespoons flour
- 1/4 teaspoon salt
- 1/8 teaspoon pepper
- 1/8 teaspoon dry mustard
- 3/4 teaspoon Worcestershire sauce
- 1 cup milk
- 1 cup grated cheese

Blend seasonings and flour in melted butter. Add milk gradually and stir until thick. Add cheese and stir vigorously until the cheese is melted. Butter and toast the buns. Place ham slices on buns and pour cheese sauce over the ham. Serves 4.

**Contest Open Now
Cash and Books to Be Awarded**

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

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

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

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

Rules of Contest

1. Subject shall be, "Why I Like to Live on a Farm."
2. Story must not be longer than 500 words.
3. Story must be the student's own composition, not the teacher's and tell

of actual farm experiences of the writer.

4. Story must be written plainly or typewritten on 8 1/2- by 11-inch paper, on one side only.

5. Be certain your name, address, and name of school are written at top of each page.

6. Mail your story to Florence McKinney, Home Editor, *Kansas Farmer*, Topeka.

7. Only one entry may be submitted from a school. The teacher will choose the best one.

8. To be eligible for grading by the editorial staff, stories must reach this office not later than April 30.

Eligibility

1. Seventh and eighth grade boys and girls who attend rural schools, under the jurisdiction of the county superintendent or who attend schools in reorganized districts under other superintendents.

2. All those who enter must live on a farm of not less than 3 acres.

3. Pupils from schools who won in the *Kansas Farmer* contest last year are not eligible.

USE TILE ON WINDOW SILL



WINDOW SILLS are fine places for house plants if they are arranged properly, and if the window sill is properly protected. The best suggestion of all is to have the sills covered with ceramic tile. They won't discolor from water or dirt, won't move or break and will wipe clean with a mere whisk of a cloth. Window glass, cut the right size is satisfactory, but is more easily broken.

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Wins 1 first prize, 2 seconds, in cooking competition

Abilene Cook Wins 3 Ribbons at Central Kansas Free Fair

Young Steven and Robert look pleased as punch about Mrs. Clarence Engle's blue ribbons . . . after all it isn't every fellow whose mother is a prize-winning cook! Mrs. Engle entered her first cooking contest year before last at the Central Kansas Free Fair, and was one of the top winners. And just last fall she repeated her success, winning 3 top prize ribbons.

Mrs. Engle helps her husband operate a dairy farm in Abilene, where her cooking skill comes in mighty handy . . . and so does

Fleischmann's Active Dry Yeast! "It's the fastest and easiest ever," she says. "Gives me grand results."

Make Lenten meals more satisfying with delicious, yeast-raised goodies. Now when you bake at home, it's convenient to use yeast . . . Fleischmann's Active Dry Yeast keeps for months on your pantry shelf, always rises fast. No wonder prize-winning cooks prefer it—out of 5000 prize winners surveyed, 97% use Fleischmann's Active Dry Yeast. So look for the Fleischmann label to get the very best.

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Sew Your Own

4720—Crisp, cool, smart casual. Flared skirt, 2-way neckline. Misses' sizes 12 to 20; 40. Size 16 dress takes 4 3/8 yards 35-inch fabric; hat 1/2 yard.

4845—Look cool, slim and smart in sun ensemble. Women's sizes 34 to 48. Size 36 takes 5 3/8 yards 35-inch fabric for dress, bolero; 5/8 yard contrast.



4689
SIZES
12-20
40



4720
SIZES
12-20
40

4845
SIZES
34-48

4689—It's a cover-up apron or wrap-around sundress. Misses' sizes 12 to 20; 40. Size 16 takes 3 3/4 yards 35-inch fabric.

9247—Ideal for shorter, fuller figures. Scalloped capelet is suggestion of sleeves. Half sizes 14 1/2 to 24 1/2. Size 16 1/2 takes 3 3/4 yards 39-inch fabric.

4665—Princess sundress with bolero. Misses' sizes 12 to 20; 30 to 42. Size 16 dress and bolero 4 3/4 yards 35-inch fabric; 7/8 yard contrast.

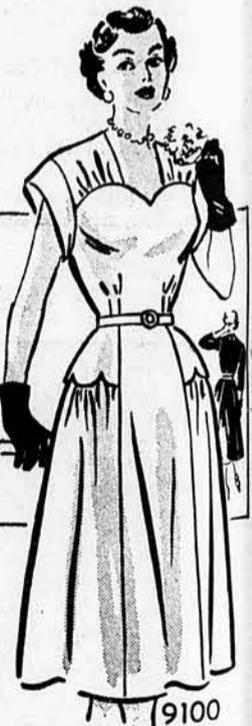
9100—Look tall, slim in this simple dress. Half sizes 14 1/2 to 24 1/2. Size 16 1/2 takes 3 1/2 yards 39-inch fabric.



9247
SIZES
14 1/2-24 1/2



4665
SIZES
12-20; 30-42



9100
SIZES
14 1/2-24 1/2

Pattern Numbers	Size	Name
		Route
		Town
		State

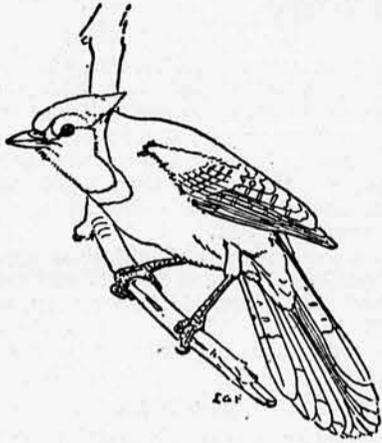
Patterns 30 cents each. Address Fashion Editor, Kansas Farmer, Topeka. Five cents more for each pattern for first-class mailing.

KNOW YOUR BIRDS . . .

By L. B. CARSON

The Blue Jay

*He dresses like a dandy
With chin-strap from his crest . . .
At times you must admire him
Tho you think he is a pest.*



COLORFUL, CRAFTY, conceited, curious, capricious . . . all are descriptive of the blue jay. One moment he is but a shadow slipping quietly thru the trees, seconds later he is a member of a riotous gang screaming loudly over some fancied wrong. A sleeping owl or stray cat will throw blue jays into an uproar which may last several minutes. His favorite sport of heckling hawks and owls often leads to his quick demise, for he sometimes picks the wrong type of bird.

Blue jays have a variety of notes, many of which seem to be conversational and are carried on in low tones, either between a nesting pair or in a migrating flock. At other times he is a mimic, mocking other birds such as flickers or red-tailed hawks. Perhaps he is unable to fool these birds, but he makes it difficult for the birder who is not too sure of his bird notes. His best-known call is "Jay-Jay," which no doubt gave him his name. This call is heeded by other birds and animals which quickly seek cover when the alarm is sounded. Hunters find game scarce, after their presence has been announced by this ever-watchful bird.

LIKE SQUIRRELS, the blue jay hides his surplus food under leaves and grass for future use. He's beautiful, faithful to his family, but noisy and crafty.

your feeder or nuts from a favored tree and hiding them carefully under leaves or any place he thinks they will be available for future reference. Many oak, beech and pecan trees now grow where jays have hidden their food supply.

The nest of this bird is usually placed in the crotch of a limb 10 to 30 feet above the ground, and constructed of twigs which have been broken from the trees for the purpose. Rootlets or other softer material provide a softer lining for the 4 to 6 eggs which are drab-colored with brownish spots. The young are hatched in about 17 days and are fed by both parents until they are able to care for themselves.

Whether you admire him for his beauty and faithfulness to his family, or hate him for his thievery and noise, you will have to admit that the blue jay fills a place in the bird world which is distinctive.

More About Wren Houses Reader Wants Help

We received the following questions from a reader who wants to know why she has not been successful with wrens and wren houses. Here are her questions and the answers by L. B. Carson, writer of *Kansas Farmer's* series on birds.

"I bought wren houses 3 years ago and they have never been occupied. Are they too near the house? How large should the entrance be? Should they be out of sight of each other? How far apart? How high off the ground? Is a lighting twig near the entrance necessary? If so where should it be placed in regard to the entrance?"

There might be several reasons why your wren houses are not used. First their location. They might be infested with wasps and may not be constructed properly.

Wrens seem to prefer a house located on a post near a perch, either limbs or wires, where they can sit and sing. A post 8 to 10 feet high with utility lines a few feet above the opening is ideal. Most houses have the opening toward the south.

Wasps often move into wren houses. Wasps and wrens are not compatible. Clean out the houses.

The entrance should be well above the floor of the house and at least seven-eighths of an inch across . . . that's the size of a quarter. Wrens will use a larger entrance, but so will other birds. Your wren houses are not too near your home. Wrens will even build inside a building. They should be placed well away from each other or only one house will be used at the same time. Wrens usually have 1 or 2 nests in the same block and then only if the male has mated with 2 or more females. (He is a bigamist.)

Height from the ground is not too important except for protection for the birds. The lighting twig is not necessary but when used should be about 1½ inches below the entrance.

Do You Have A Question?

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

What a change takes place while nesting! Then the blue jay is very quiet in his home territory. The nesting season also brings out some of the bad traits of this species, for he likes the taste of the eggs and young of other birds and spends much of his time in obtaining such food. This habit makes him an unpopular neighbor for other birds, many of which will attack him on sight. It also brings the wrath of bird lovers down on what could otherwise be a respected bird.

The blue jay breeds over a wide area of Canada and the United States east of the Rocky Mountains, and ranges south in winter only far enough to find a supply of acorns, pecans or other nuts and seeds to carry him thru the colder weather. Blue jays migrate in broken flocks which travel leisurely from tree to tree or wood lot to wood lot. They seem to know their flashy blue suit can attract attention so they hesitate between each flight, carefully checking for any danger. When one bird leaves the protective cover, he will soon be followed by others in the flock, either singly or in twos and threes.

Like squirrels, the blue jay has the habit of hiding any surplus food and will work for hours taking seeds from

Build a Wren House

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



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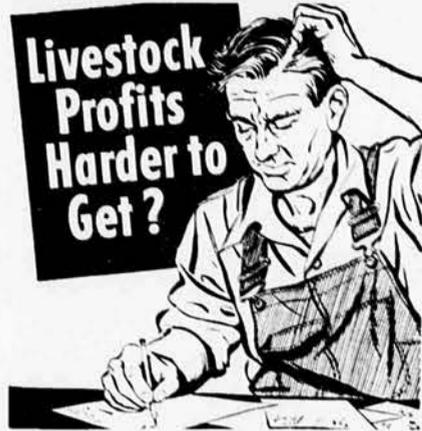


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N-JF-3



Her Daughter Did Not Get Invited to Join a Sorority

THIS question comes up often. Here it is, sent to us by a Midwest mother who continues, "How can I help my 17-year-old daughter who has not been invited to join a sorority at the state university? She had her heart set on it, she has a fine wardrobe and spending money. She feels there is something wrong with her and wants to come home. Her father and I don't know what to do. We feel very bitter about sororities in college, anyway?"

Mrs. Marion Quinlan Davis answers this mother as follows:

Those of us who are older and who have experienced the fraternity system, know any social function is more alluring from the outside looking in, than from the inside looking out. But we can't tell that to the young folks.

Do You Have A Question

If you have a question we will be glad to get it. Child-care and training problems are discussed by Mrs. Marion Quinlan Davis, our writer on the subject. If little John does not get along well with his brother and sister, with his friends, if he seems unhappy and has not been able to cope with everyday living . . . these are samples of the type of thing answered in this column. Write to the Home Editor, Kansas Farmer, Topeka.

They have to learn it for themselves. Being left out and rejected is the common lot of man. Few of us ever attain our heart's desire in all things. We don't subscribe to the cheap philosophy that "whatever is, is best," but we can make the best of whatever is.

Sororities very largely are a Midwest institution. To the eastern college girl and to many southern girls, sororities mean little. The United States is a big place and so is a college. Somewhere, in some group your daughter will find the proper spot where she will be happy and people will love her.

Colleges are designed to educate future leaders and to prepare them to

live as mature adults. Sometimes, to hear foolish parents talk and to observe the attitudes and antics of their young, we wonder if colleges were designed to pin Greek-letter pins on young persons and to give them a good time at Dad's and the hard-working taxpayer's expense.

Secret rituals and initiations appeal to college folks just as Girl Scout oaths and rituals appealed when they were 12. If a "gang" doesn't form in the sorority house, it forms in the dormitory.

Stuck It Out

Two of our recent Presidents of the U. S. stuck it out and became campus leaders. One was finally invited to join a fraternity in his senior year, the more distinguished one was never accepted, but led the independents. In later years he became an illustrious engineer and even more illustrious world-citizen.

Perhaps it would have been wise, to have waited a year before sending your daughter to a big state school. If you have other daughters consider a small college for the first year.

The only way we can help any person, be he 8 or 18 or 80, to adjust to life's disappointments is to put ourselves in his place, understand fully what he is experiencing, be sympathetic but not sentimental. Let him talk and cry himself dry; then help him build a philosophy that will carry him over and past this defeat into a bigger and more useful life. Major disappointments can either embitter or enrich us. How we accept defeat and rejection depends on our home training and the depth and quality of our souls.

A May Day Play

For a light, interesting playlet for May Day, write us for a copy of "A Maying We Will Go." It's also suitable for Mother's Day. Parts for 4 young girls. Send your orders and 3c for postage to Home Service Editor, Kansas Farmer, Topeka, Kan.

TRANSFER IN TWO COLORS



Plant a vegetable garden right in your kitchen with sparkling, tomato-red and cool fern-green. Iron designs right on kitchen towels, tablecloths, curtains, also aprons and potholders. No embroidery needed. Quick, easy and in 2 colors. Pattern 7310 has 16 designs about 3 1/2 by 4 1/2 inches.

Pattern 25 cents. Address Needlework Editor, Kansas Farmer, Topeka. Send 25 cents more for new Needlework Catalog.

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Relieve Coughs—Aching Muscles Sore Throat

Child's Mild Musterole—made especially for kiddies—is recommended by many baby doctors. Musterole speedily relieves coughs, sore throat, chest colds. It instantly starts right in to break up congestion in nose, throat and upper bronchial tubes.

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LITTLE ADS BRING BIG RESULTS

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

Stop Taking Harsh Drugs for Constipation

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

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

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

Gentle, effective relief

Pleasant, minty-flavored Dr. Caldwell's acts mildly, brings thorough relief comfortably. Helps you get regular, ends chronic dosing. Even relieves stomach sourness that irregularity often brings.

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DR. CALDWELL'S SENNA LAXATIVE

Contained in pleasant-tasting Syrup Pepsin

**New Extension Agent
In Northwest District**

Miss Annabelle J. Dickinson has been named district home demonstration agent for the northwest Extension service district, according to Miss Georgiana Smurthwaite, state home demonstration leader at Kansas State College.

Miss Dickinson has been home agent in Barton county for the past 4 years. She has also served as an Extension agent in Rush and Allen counties.

A graduate of Fort Hays State Teachers College, Miss Dickinson has done graduate work at both Kansas State College and Colorado State College. As a district agent, she will supervise the home economics Extension program in 34 counties in central and northwest Kansas. She replaces Mrs. Velma Huston, who has taken leave of absence.

Honor Thy Mother

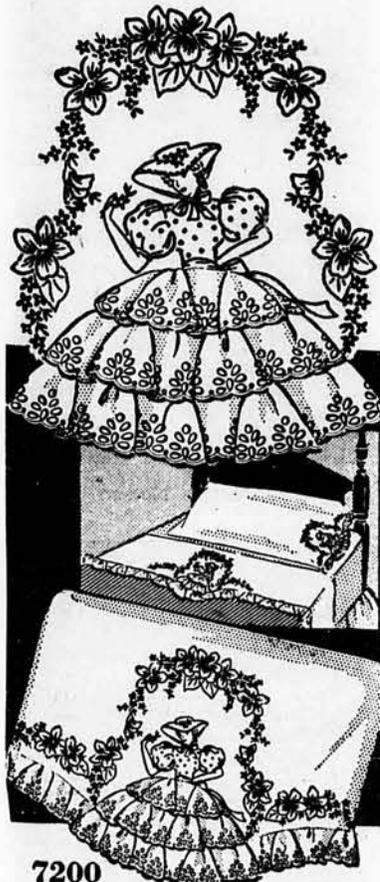
Mother's Day is May 10, and for a new way to honor your mother, entertain with a party. *Kansas Farmer* has 2 leaflets giving ideas on contests, favors, food, programs and poems for party or banquet. Write to the Home Service Editor, *Kansas Farmer*, Topeka, Kan., for a copy of "Honor Thy Mother" or "Mother-Daughter Banquet and Program." Each 5c.

Don't Fold, Don't Crease

Exacting tests now show that there are several ways to prolong the life of men's shirts. Turn up the collar of the soiled shirt before washing, leave it up during ironing and on the hanger until the man of the house puts it on.

If starching is necessary, the amount used should be kept to a minimum. Also leave the shirts unbuttoned. Don't fold them and store in the dresser drawer. Leave them on hangers.

Embroidery News



7200

Something new and fun to do. Embroider the pretty girl and her flower arbor, then add ready-made eyelet ruffling for skirt. Make a lovely trousseau set with this pattern, No. 7200. Includes transfer with 2 designs 5½ by 13 inches; one design 8 by 16 inches.

Pattern 25 cents. Address Needlework Editor, *Kansas Farmer*, Topeka. Five cents more for first-class mailing.

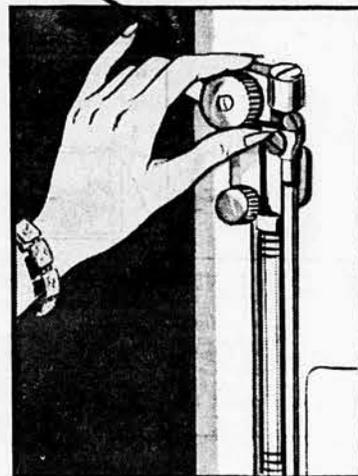
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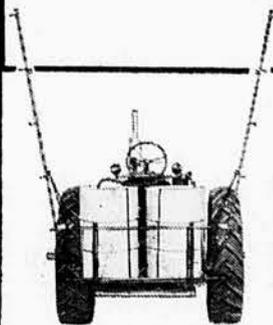
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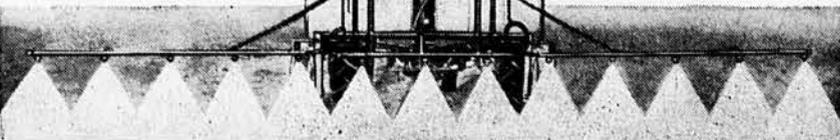
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ROTATE PASTURES DAILY BY OPENING ONE GATE!

KILLS WEEDS ON CONTACT!

Model 45
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Only . . \$27.75

Controlled grazing by use of temporary electric fencing lengthens grazing season, increases butterfat percentage, beef weight. Cows graze down pasture quickly and evenly, eat all grass, legumes and weeds instead of tramping down and destroying pasture while walking off fat. Rotating pastures allows grass to recover faster.

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Easy concave adjustment from operator's seat. Quick clean-out. Precision concave adjustment raises or lowers both sides at the same time. Fits M-H, IHC, and other SP combines.

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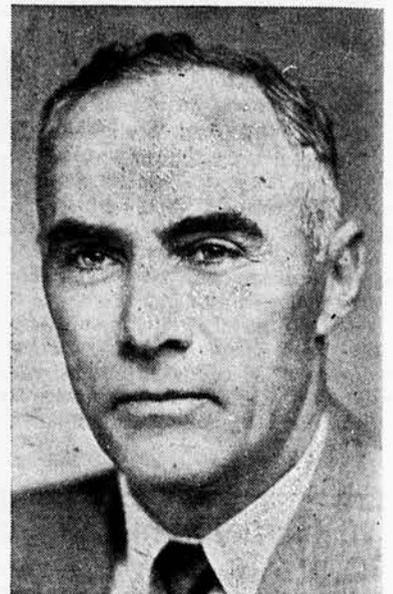
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Six Outstanding Kansans Selected As 1952 Class of Master Farmers



Otto C. Eulert



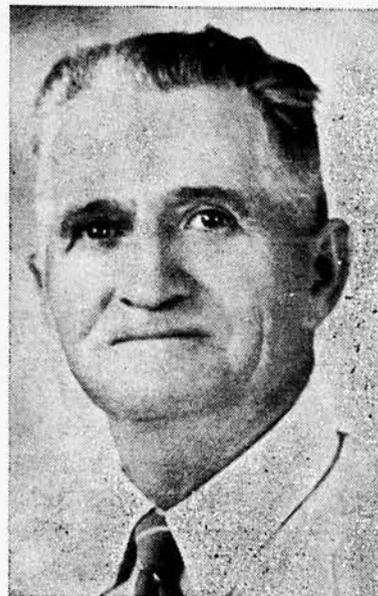
Walter C. Peirce

THE 1952 CLASS of Master Farmers was presented over Radio Station KSAC, Manhattan, Monday, March 16, by Dick Mann, associate editor of *Kansas Farmer*, which sponsors the project. Receiving this top award in Kansas agriculture were Joseph Nelson, Horton; Victor Edmonds, Oskaloosa; Walter C. Peirce, Hutchinson; W. E. Mueller, Kendall; Otto C. Eulert, Paradise, and George P. Pianalto, Atwood. Following the radio broadcast, during which each man received a Master Farmer medal and certificate, members of the new class were honored at a luncheon at the college cafeteria. *Kansas Farmer* has been selecting Master Farmer classes since 1927 except for

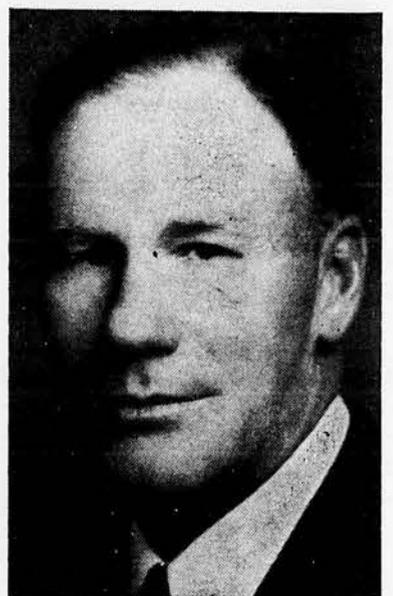
a short period during World War II. Here is a summary of farming and community activities of the 1952 class of Master Farmers:

Joseph Nelson, Horton—Mr. Nelson has a 248-acre farm in Atchison county on which he has built more than 6,000 feet of terraces. He has a soil-saving dam and extensive waterway seeded to brome grass. Proper land use has been followed by retiring poor land to grass. On cultivated land the crop rotation is 1 year corn, 1 year oats, 1 year wheat, 1 year clover. Corn, oats and legume hay are fed to home-raised beef, hogs and poultry. In community life Mr. Nelson has

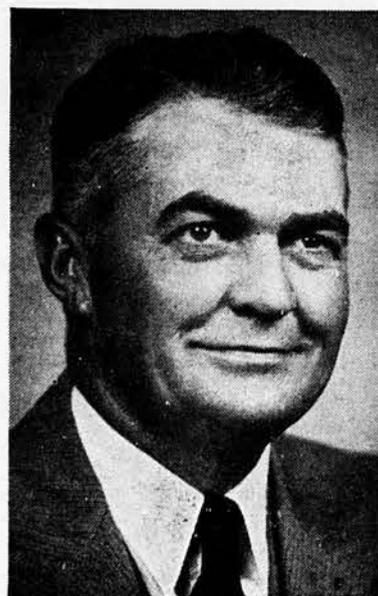
(Continued on Page 37)



George P. Pianalto



Joseph Nelson



Victor Edmonds



W. E. Mueller

been secretary of Zion Lutheran Church, president of Brown-Atchison Electric Co-op, member board of directors of Kansas State REA Association, county legislative committee of the Farm Bureau, secretary-treasurer of Everest Mutual Telephone Co., Horton Tri-county Fair agriculture committee, committee on relation of electricity to agriculture, state committee on Kansas Job and Safety Training, and USDA war mobilization board. He also was a volunteer crop reporter for many years. The family consists of Mr. and Mrs. Nelson and one son, Loren Dean.

Victor Edmonds, Oskaloosa—Mr. Edmonds owns a 240-acre farm in Jefferson county on which 130 acres are cultivated. He goes strong for legumes, using both alfalfa and red clover in crop rotations. One rotation is alfalfa 3 or 4 years, corn 2 years, oats 1 year, wheat 1 year, then back to alfalfa. The other is clover 1 year, corn 1 year, oats 1 year, wheat 1 year, and then back to clover. Due to his cropping program, his livestock program and soil conservation practices, Mr. Edmonds won the first Balanced Farming contest held in Jefferson county. His livestock projects include a herd of purebred Holstein dairy cows and a flock of Texas breeding ewes. The present dairy herd of 44 head was built from a nucleus of 5 heifers.

Community activities of Mr. Edmonds include Farm Bureau, church trustee, Sunday school treasurer, clerk of school board, soil conservation board of supervisors and GI on-farm training advisory board. He also worked for rural school consolidation, helped start and support a milk producers co-op market and worked for a 10-mill levy in the county to provide farmers with all-weather roads. The family consists of Mr. and Mrs. Edmonds and 2 children, Gary and Beverly.

Walter C. Peirce, Hutchinson—Mr. Peirce own a 640-acre farm, of which 510 acres are in cultivation. He specializes in certified seed production but also carries a strong deferred-feeding program, with income about equal for the 2 major projects. By specializing in 2 projects Mr. Peirce increases his volume of business and can do a better job of management than if he was spread out too thin. The beautiful farm home contains a hobby room that provides for special interests of all members of the family, and is a model of long-range planning for better family living.

Mr. Peirce has made an outstanding contribution to local and state organizations. He has served as clerk of his local school, chairman of the church board, president of his community club, member of the Farm Bureau board, president of the Farm Management Association, president of the Kansas Crop Improvement Association, township clerk, and trustee of the Kansas State College Endowment Association. The Peirce family consists of Mr. and Mrs. Peirce and 4 children, Clinton, Kenneth, Stephen, and Eileen.

W. E. Mueller, Kendall—Altho he once homesteaded in Idaho and later came to Kansas broke, Mr. Mueller now controls 3,020 acres in Kearny county, of which 1,580 acres are owned. He keeps from 50 to 60 per cent of his

cultivated land in fallow every other year with the result his wheat average for the 5-year period 1945-50 was 22.6 bushels. He carries a herd of Hereford cows and raises most of the beef fed on the farm.

Community activities have included being local church treasurer, school board treasurer, local committeeman for the AAA, 4-H leader, Sunday school teacher, and crop reporter. Mr. Mueller pays dues to the Farm Bureau in both Kearny and Hamilton counties. Thru a son who was in a hospital in Germany the Muellers came in contact with a displaced Hungarian family. They ended up by financing a girl in the family to America, where she is now employed in a town near the Muellers, after spending a year in their home getting adjusted to her new surroundings.

Mr. and Mrs. Mueller raised 12 children. Ted, Leonard, Evelyn, Calvin, Chester, Violet, Duane, Caroline, Billy, Donald, Shirley, and David. David, a bomber radio man in World War II, was killed in action.

Otto C. Eulert, Paradise—Mr. Eulert started out as a hired hand on the 3,595-acre ranch he now owns in Russell county. Out of the 991 cultivated acres 275 acres are devoted to legumes, with 100 acres in alfalfa and 175 in sweet clover. Two rotations are followed. Bottom-land rotation consists of clover-clover-milo or forage sorghum-oats-wheat-sorghum. Upland rotation consists of clover-clover-wheat-wheat-wheat-wheat-combine milo. Sorghum and clover follows wheat to control cheat and goat grass on upland, while wheat follows sorghum on bottom land to control Johnson grass and cocklebur.

A herd of 179 Hereford cows makes the livestock project, with purebred sires being used at all times. Steers from these cows are kept and put on a deferred-feeding program. Heifers are topped for replacements and remainder sold as stock cows or feeders. Cow herd kept culled closely, with culls fattened for market before getting to cutter-canner class. Attention has been given to providing a special room in the home where the children could entertain.

Mr. Eulert is active in both Farmers Union and Farm Bureau, has served as county Farm Bureau vice-president, on the Crop Improvement Association board, grade-school board, high-school board, as church elder, community committeeman in AAA, and on 4-H county fair association board.

George P. Pianalto, Atwood—Mr. Pianalto owns 1,080 acres and rents 690 additional in Rawlins county. Soil on his farm is protected by terracing and contour farming. Rough land has diversion ditches and soil-saving dams, and steep slopes are kept in permanent cover of grass. Soil blowing is controlled by stubble mulch farming and use of deep chisel. Half the wheat land is fallowed each year. Legumes include 90 acres of alfalfa and 35 acres of a brome-clover-alfalfa mixture. On bottom land the crop rotation is alfalfa 5 years, summer fallow, wheat or sorghum, corn, oats, alfalfa. Acreages of corn and sorghum are varied to supply necessary needs of livestock.

Major income on the farm comes from wheat and a beef cow herd, but there also is a dairy herd of 20 cows, and enough feeder pigs are purchased each year to consume excess milk and grain.

As a community leader Mr. Pianalto has served on his school board, was Farm Bureau president, PMA committeeman, REA director, church committee, school building committee, Sister convent building committee, township trustee. He also is a member of the VFW and American Legion.

The Pianaltos have 17 children—Lorine, Lester P., Charles E., Lewis E., Elmer L., Anges E., Reta M., Marjorie A., Georgine C., Patricia A., John D., George Albert, Francis J., Fredrick J., Elizabeth J., Shirley J., and Linda M.

The Eulert family consists of Mr. and Mrs. Eulert and 7 children, Irene, Eleanor, Lewis, Joyce, Donald, Harold and Lynda.

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On the basis of modern, profitable farming methods, community service, and church work, Mr. and Mrs. Rex C. Calley, Guthrie Center, Iowa, were chosen the State's outstanding G.I. farm family for 1952 by the Iowa American Legion. Mr. and Mrs. Calley were chosen the best over 300 other G.I. families. And, in line with their advanced farming methods, the Calleys have chosen the best possible chicken they can raise, the AMES IN-CROSS "301", for three years in a row.

Here's what the Calleys say about their Ames In-Cross hens:

"Our Ames In-Cross 301's are highly satisfactory. At six months of age they were laying 80%. The cockerels make excellent broilers at eight weeks. This is our third year with Ames In-Cross and we have re-ordered for this year."



"More Profit from Ames In-Cross than any other birds."

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Robert Birkey, Bremen, Ind.



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At the age of 4 months, I found two eggs, and my birds were in full production at 5 months. We have never had as good luck with other birds as with Ames In-Cross and plan to buy 1200 next year."

Mrs. Geo. Kotila, Cokato, Minn.



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How It Started

How did the "straw" get in strawberry? Some say the word is a corruption of "stray-berry," referring to straying habits of runners of the plant. Another belief is the plant got its name in the sense of hayberry (often found growing in hayfields) as straw often is used in strawberry patches to keep down weeds, fertilize soil and prevent earth from soiling berries.

The Anglo-Saxon meaning of straw or "strew" is spreading or scattering, and since strawberries are "runners," this may be the origin of the "straw."

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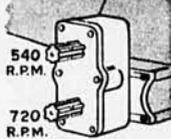


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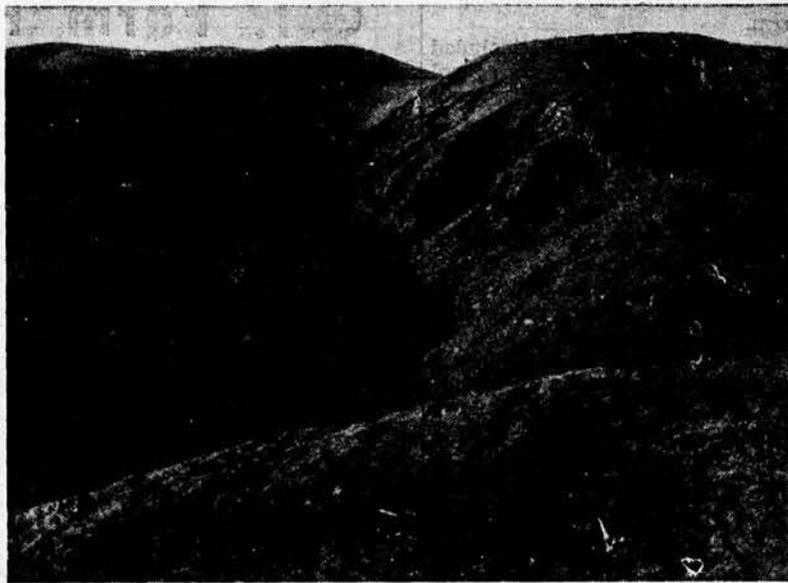
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MORTON Free Choice TRACE MINERALIZED SALT

Just See What They Do With Pastures

(Continued from Page 15)



HILL COUNTRY like this once in forest is being top-dressed by air.

men, for instance, pasture fields farthest from the homestead by day and hold cows in pasture near at hand by night; night pastures improve at expense of more distant ones.

Note Fertility Transfer

Other methods of fertility transfer are noted. Harvesting feed on one field and feeding it on another will cause such a transfer. Hedges and belts of trees that attract stock for shelter or shade allow a build-up of fertility where animals congregate. Rationed grazing has to be managed with care or there will be a fertility transfer toward side of pasture where grazing starts.

The average New Zealand farmer is aware of the relationship between high fertility and grazing management. He therefore utilizes feed in place wherever possible, and feeds both hay and silage on the pastures. I have not seen a single feed lot in New Zealand. They simply cannot afford the fertility losses that result when manures accumulate.

Supplemental feeding: Harvested feed crops are kept at a minimum and yet they cannot be eliminated entirely because cool winter weather and occasional dry summer periods may curtail growth. In the extreme south there may be up to 3 months of winter feeding either with temporary grazing crops or with harvested feeds. In the north grasses grow more or less the year around. Harvested feed crops are mostly hay or silage cut from pastures in the period of rapid spring growth. Silage is increasing in popularity as machinery removes the hard labor from silage making. It is a common sight now to see alfalfa or grass being made into silage stacks with only 2 implements, mower and buckrake. The unchopped green material is piled in wedge-shaped stacks with tractor-mounted buckrakes, the necessary packing being obtained by driving the tractor up the sloping stack. The trench silo is fairly common. Some farmers use forage harvesters and ensile chopped grasses or

legumes, but most silage is made of unchopped forage.

Temporary pastures often are used for wintering stock, favorite ones being root crops (rutabagas or mangolds), kale, chou moellier (a rape-kale hybrid), and cereal grains. Both sheep and cattle thrive on these crops, actually fattening to market condition on them. For summer and autumn grazing the most common supplemental crop is rape, and lambs sometimes are fattened in the autumn on turnip tops.

How Grain Is Used

Grain is not used for livestock feeding except for race horses, and in special cases for sheep and cattle being fitted for shows or for sale as blooded stock. New Zealand does grow a certain amount of grain, however, perhaps 150,000 acres of wheat plus lesser amounts of barley and oats, and even a little corn. Yields of wheat are high, the national average being well above 30 bushels per acre. Its production of wheat does not meet New Zealand's need for bread grain, however, despite the fact Southland farms regularly produce 80 bushels per acre or more. We met one farmer whose field of wheat had yielded 112 bushels per acre. But it must be remembered these yields are obtained only in crop rotations that include pastures with the fertility build-up that takes place under grazing. No field is out of grass more than 2 or 3 years, and most fields remain in grass 8 to 10 years or more in the rotation.

Certain other food and fiber crops are grown to a limited extent, but emphasis is on pasture and livestock. On most farms the cultivated crops are incidental to perennial pastures, and the whole system is geared to production of forage for grazing.

Hill Country Pastures: Much of New Zealand was once forest and early settlers cleared it by felling and burning trees. Grasses and clovers were broadcast among the remaining stumps and

(Continued on Page 39)



RATION GRAZING: Cows are given fresh strips of grass at regular intervals and held in control by a very light, temporary electric fence.

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WINTER GRAZING on rutabagas near Palmerston, North, New Zealand.

logs (many of which are still to be seen on the hillsides) as soon as the fire went out and the ashes had cooled a bit. The seedlings emerged in the cover left by the ash and were nourished by its residue of minerals. For many years such pastures carried one or more sheep per acre but gradually fertility declined, grasses thinned out, and scrub growth invaded. Wherever possible the land was worked, fertilized, and reseeded, but most of the hill country is too steep and too rough for this, so large areas reverted to shrub, first stage in the return of the forest. Hand cutting of brush was difficult and costly, as was application of fertilizers, but both were essential in maintenance of pasture. During World War II, extreme labor shortages made this hand work impossible, so still further reversion took place.

Still a Slow Job

Brush cutting is still largely by hand on these steep hills but high sheep and wool prices have made it practical. Aerial spraying of shrubs is being tested and more recently, one of the worst shrubs has been found extremely susceptible to attack by a scale insect resembling a mealy bug. It is now being spread by farmers who report excellent kills.

Once the land is cleared of brush it is possible to fertilize, for New Zealand has developed aerial top-dressing to the extent contractors for this job are available throught the dominion. Development of hill land now in dense stands of brush offers great possibility for increased animal production.

Tussock Grasslands: In addition to her forest lands, New Zealand also has some 14 million acres of native grasses known as tussock because of their tufted habit of growth. These are big, coarse species and between them grew lesser grasses and forbs that were eaten by stock. It must be remembered New Zealand had no wild grazing animals so her plants, unlike ours, were evolved in an environment that did not include grazing.

Early settlers found by burning they could get sheep and cattle grazing from tussock grassland, so fire became an important part of pasture management. Fire and grazing weakened the tussocks and carrying capacities today are low,

varying from a few up to 10 or more acres per sheep. The so-called English grasses and many weeds now occur among the tussocks and these provide most of the grazing.

Problem of Balance

The problem is one of regulating the balance between tussock and the intervening species, for unless it is burned the tussock is unpalatable. It is easy to weaken it and drive it out, however, so fire is not an unmixed blessing. As yet no satisfactory solution has been found and depletion continues. Research workers are seeking better plants and better management methods, but meanwhile soil erosion is becoming a menace, many of the hillsides now showing severe slips and rock slides as a result of depletion of the cover. On the worst of these areas the solution would appear to be removal of all stock, at least until satisfactory management practices can be developed.

Among lessons to be learned from New Zealand's intensive grassland agriculture, first and most important is that pasture is regarded not only as an important farm crop but as the *major one*. All other farming activity centers around pasture except in a few limited cases such as fruit, hops, and tobacco farms.

Along with this attitude comes the need and desire to grow and utilize forage crops as efficiently as possible. This has resulted in a grassland agriculture equal to any in the world and far ahead of most. We should be ready to try some of the grazing techniques and management practices that are so effective in New Zealand with the view of adapting them to our needs. Or perhaps developing new ones from them to make fuller and more efficient use of our pastures.

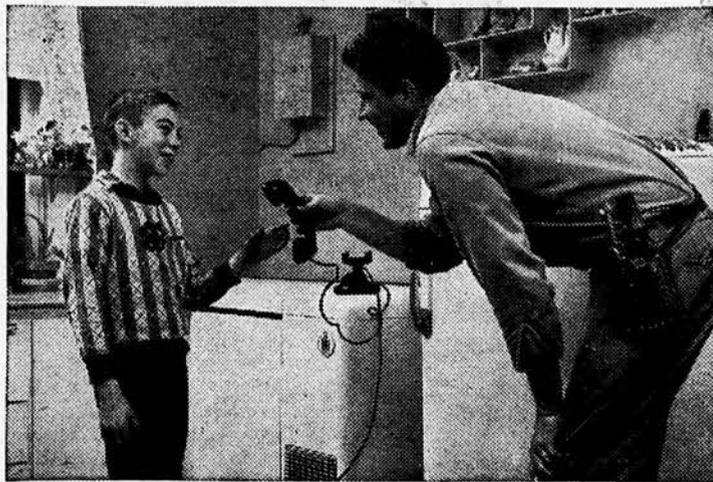
New Safety Chairman

Martin Ronning is new chairman of the farm safety committee of the Farm Equipment Institute. He is chief engineer of the Minneapolis-Moline Company, since 1934. He has been a member of the FEI farm safety committee since 1951, also is a member of the National Safety Council's farm conference.



STACK OF GRASS silage. Soil placed on top is for purpose of adding weight to obtain proper settling of material.

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Wheat Growers May Get More Time Before "Contamination" Price Cut

By CLIF STRATTON, Kansas Farmer's National Affairs Editor

(For story of how this wheat price crack-down would work if put into effect, please turn to page 6)

WASHINGTON, D. C.—Wheat growers and the grain trade generally—to say nothing of higher-ups in Commodity Credit Corporation—felt pretty much relieved at the end of 2 days of hearings before the Senate Committee on Agriculture last week.

Meeting was called by Sen. George Aiken, committee chairman, to discuss the program of the Food and Drug Administration to start its regulatory program dealing with insect infestation of wheat next July 1. Representatives of Food and Drugs and of grain branch of PMA, Department of Agriculture, appeared Tuesday. A half-dozen representatives of the grain trade, millers and elevator operators appeared Wednesday.

After listening to George P. Larrick, deputy commissioner of food and drugs in F&DA explain how it was intended to test wheat for "gross contamination with internal insects (weevil)," and directing it be sold for feeding animals only, Sen. Andrew F. Schoeppl, of Kansas, asked: Is it contended wheat now graded for human consumption, but with "exit holes" indicating as many as 145 insects in wheat required for 5 slices of bread, is detrimental to health?

No Evidence for Proof

"Our records don't show any evidence insect contamination of wheat now being milled for bread and other products sold for human consumption is detrimental to health," Larrick stated frankly. "At the start this program would have only esthetic value."

Starting out by "putting" pressure only in the worst cases, he said, it was hoped to get "clean wheat" in the course of 10 or 12 years; thereby saving about "a billion dollars a year" now lost thru insect damage. He was willing to cooperate with the trade and the Department, reasonably modify the program.

William McArthur, deputy director, grain branch of the Production and Marketing Administration of the Department, said flatly he and "his superiors" felt definitely "the insect infestation program should be postponed" until a program that would be less in-

jurious to interests of the wheat growers can be worked out by all concerned.

As to health damage, McArthur made Larrick's statement sound as mild as an evening breeze.

"There is more dynamite in one fly that lands on a chiffon pie, than in a million bushels of insect-infested wheat," McArthur declared. Estimating CCC will own some 500 million bushels of wheat by July 1, and that the 5 per cent estimated by Larrick might be condemned under F&DA rather indefinite formula, he said the CCC might take a loss of as much as \$25,000,000 on its holdings. He declined to estimate what the program might do to wheat prices thru fears of elevator, other purchasers, that wheat might later be condemned. Elevator operators, boards of trade, grain trade generally expressed grave doubts if the program could be started next July without disastrous effects on the wheat market. These also agreed with Senators Aiken and Schoeppl, and McArthur, that it would result in unloading much more wheat on the CCC thru loans.

Unless there is some very obdurate person in F&DA determined to bull it thru, general tenor of the Senate committee hearing was that the plan will be postponed until its effects can be more clearly foreseen. There was agreement that the rodent contamination had brought about good results.

When Ezra T. Benson, Secretary of Agriculture, with White House approval, announced dairy price supports would be continued another year (from April 1) at 90 per cent of parity, including the butter purchase program, he said:

"Dairy farmers depend upon other (farmers) to supply them with feed, wheat, corn and other feed grains supported at 90 per cent of parity. Those supports (by Act of Congress) will continue thru 1954."

A few days later, in an open letter to Senator Aiken, Secretary Benson said: "... we had the assurance of dairy industry and trade leaders they would immediately start on an aggressive adjustment and marketing program."
(Continued on Page 41)

GRANDMA By Charles Kuhn



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gram designed to minimize the need for governmental support operations. In effect, the dairy industry has asked the Department for time. We have agreed. . . .

"Despite our decision . . . that dairy supports should be continued another 12 months at the 90 per cent level, I nevertheless also have tried to make it plain I have misgivings as to any program which simply accumulates surpluses without any real methods of disposal in sight. This dairy decision does not set a precedent for any other commodity, or for dairy products for another year, for that matter. . . . (I have a) strong feeling farmers need in every case seriously to consider as to whether continued high inflexible supports may not in fact help destroy the very markets upon which they must depend always for their livelihood."

Looks as if wheat and dairy industries have gained a breathing space of another year in places creating disturbance.

In regard to wheat prices, Bureau of Agricultural Economics reports: "Wheat prices have been below parity since May, 1948, reflecting large

plies and a reduced export market remain the principal factors in the decline. Prices paid for goods and services purchased by farmers (commodities, interest, taxes and wages) slid off 2 points to 280 (1910-14 equal 100) reflecting primarily lower prices for feed, feeder cattle, and food. With the prices received index off a little more than the parity index, the parity ratio declined to 94 in mid-February, lowest since June, 1941.

"Most of the moderate decline in farm product prices since mid-January reflected lower prices for cattle, eggs, milk, potatoes and grains. These declines were partly offset by higher prices for hogs and cotton. The fall in prices of farm products since mid-1952 and continued high prices for most farm production items are exerting a squeeze on farmers' income."

A measure of cattle abundance: When the ban on Canadian shipments to the U. S. came off March 1, a southward rush of cattle was expected. Instead, the initial movement was in the other direction.

When price ceilings on motor fuels were killed, in New York State an at-

COMING, APRIL 4 . . .

In April 4, 1953, issue, Kansas Farmer will carry the third in a series of articles on water-management problems in Kansas. This third article will deal especially with various flood-control plans being pushed for the Kansas (Kaw) river basin. It will attempt to simplify the over-all flood-control problem and reduce the propaganda on all sides to a believable center.

crops in the United States and favorable harvests in importing countries. Wheat prices were above parity from March, 1946, to May, 1948, except for February, 1948. Since 1920 they also were above parity in 1924-25, 1925-26, and 1936-37. Wheat prices in January were 86 per cent of parity, compared with 90 per cent a year earlier, and 97 per cent, the 1941-50 average."

Concerning feed grain and hay stocks, BAE says this:

"Combined stocks of the 4 feed grains on January 1, were larger than a year ago and above average in the North Central region, while hay stocks were near average. Record large stocks of good-quality corn in the area more than made up for smaller stocks of other feed grains. In the South, however, feed grain stocks are a third below average and hay supplies also are short, especially in the South Central states. For the entire country, feed grain stocks per annual unit were near the 1947-51 average, while hay stocks were somewhat below average in relation to the increasing number of hay-consuming livestock on farms."

Demand and Price situation, also from BAE:

"Farm product prices eased off a little more in January and February, following the rapid decline from August to December last year. Large sup-

tempt to boost wholesale gas prices collapsed when some oil firms refused to go along.

Wall Street Journal reports in Ohio, altho retail prices have edged higher, cost to industrial users came down week before last. Despite the mild winter, gasoline stocks now stand at a near-record, 157 million barrels, 5 million more than a year ago. Relatively warm weather has helped put stocks of light fuel oil nearly 20 per cent over a year ago.

Milk prices are dropping under the influence of heavy production—unusually mild winter again. In 25 big cities in early February price of home-delivered milk averaged 23.3 cents quart. That is two tenths higher than a year before; two tenths under the January average.

Not much "free wheat" will be in the 560-to-575-million-bushel carryover expected next July 1.

Family living costs are close to the record level of mid-1952, altho food prices have dropped off in recent months.

Cattle population was a record 93.7 million head January 1. Promises to be close to 100 million by end of year. Cattle marketings are on increase; hog marketings down.

I WONDER HOW THAT STARTED . . .

"A Clean Bill of Health"

A Bill of Health is a certificate certifying to a state of health. Believed to be first used (in reference to a ship's crew and passengers at time a ship sails) when a certificate of health was signed by port authorities. Today, it often means a person is given "a clean bill of health" when cleared of suspicion of wrong doing.



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



Cutting Weeds is good farming

ROOF

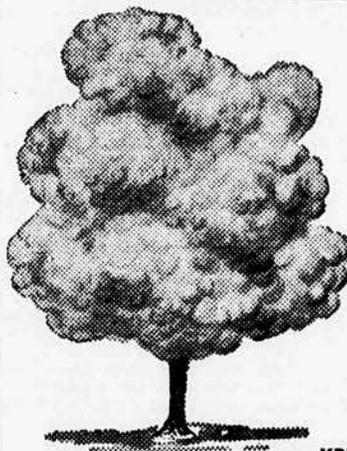
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Booklet "Tells about sawmills, tractors, mixers, 100 machines you can build." Gives workshop "tips" galore—25c! Kimo, Box 307-KF, New York 19.

MACHINEERY AND PARTS

Factory Closeout two carloads world's finest row crop weed spray outfits. Tremendous savings. Complete, ready to use. Lot number one, 5-row brass boom nozzle with leading make pump, T-let, controls, accessories. Regular \$140.00. Sale, \$78.50 prepaid. Lot number two, DeLuxe 7-row stainless steel boom with finest pump, push button selector valves, etc. Regular \$250.00. Sale, \$129.50 prepaid. Guaranteed to satisfy or money back. Gigantic sale, hundreds tool equipment surplus items. Card for catalog. Burden Sales Company, 931-KF, Lincoln, Nebr.

TRACTOR SPECIALS. I-4 (IHC) new rubber tire tractor with or without new Ottawa Industrial loader. T-9 & TD-9 reconditioned crawler tractors with or without hydraulic dozers. TD-14 with Bucyrus Erie dozer, ready to go. TD-18 with Isachsen hdy. dozer, excellent. D-2 & B-5 both with hydraulic dozers. Austin Western crane, Fawthers ditcher mounted on F-4 Ford truck. McGuire & Grimes Mach. Co. R-2, Parkville, Mo. Phone Parkville 370 Loc. Jet. 45 & 71 Highway, N. Kansas City

One-way and Disc Grinder. Can be used in the shop, yard or while machine is discing in the field. No dismantling. Cheap, simple and easy to operate. Write for circular. Hyatt Mfg. Co., Kimball, Nebr.

New and Used Tractor Parts. Write for big, free 1953 catalog; tremendous savings. Satisfaction guaranteed. Central Tractor Parts Co., Des Moines 3, Ia.

Stroud Bale Elevators Available—Two sizes; 14-ft., \$149.50; 20-ft. size, \$199.50. All steel construction, easily powered, easily moved on rubber built in the average farmer price range; send for descriptive literature. Dealer and distributor. Longhofer Supply, Marion, Kan.

Combines: MH No. 27 SP, 1952 and 1950; MH 28 SP, 1951 and 1949; MM SP 127, 1951 and 1949; AC 5, 1937 to 1952; IHC 64, 62, 61, 52, and 22; JD 12A motor 1950. Tractors: MH 44-4, 44-6, 30, and 101; IHC M, H, F20, F12 and Regular, F. Ray Hull & Son, Inc., Massey-Harris Dealer, Tipton, Ind.

We Sell Rain—See 'em operate. Flood-gated-perforated, sprinkler irrigation. Wholesale, retail. Conrad's, Kaylord, Kan.

Used Tractor Tires mounted on Farmall wheels, complete with tubes and rims, as low as \$29.50 per set; also others; write us today. Joe Goodman Tractor Wrecking Co., P. O. Box 1412, Lincoln, Nebr.

Massey-Harris 44 Row crop 1949 Model tractor; Massey-Harris 44 Row crop 1948 Model tractor; IHC 1948 Model H tractor. Goodland Implement Co., Goodland, Kan.

For Sale, Trade or Rent—We have a large selection of Crawler tractors with and without dozers ranging from \$1,350 to \$7,500. Pay us a visit and save money.

Parts—Large stock of new and used parts in Midwest for most Crawler tractors, all at discount. Track—New T-9 Track with and without pads. Used rails and complete track for TD-14; 18; D-7 and D-8. White Tractor Parts & Equip. Co., 3512 S. Noland (71 Bypass), Independence, Mo. Cl. 5544. Closed Sundays.

McCormick Model 62 Combines with motors. Good condition. 1941 and 1942 models. \$250 each. C. D. Clark & Sons, Oakley, Kan.

MACHINEERY WANTED

Wanted—Avery SS3 thresher teeth. Ralph Partidge, Cass City, Mich.

ELECTRICAL EQUIPMENT

For Sale—Onan 32-volt light plant, used 5 years. Very good condition. Leonard Noll, Ransom, Kan.

FARMS—KANSAS

Choice Sheridan County grain and stock farm. Well improved. Address Owner, 1606 Washburn, Topeka, Kan.

FARMS—MISCELLANEOUS

New Strout Catalog—Just out! Homes, Auto Cts., Businesses, 31 state, coast to coast. Green cover, over 3,200 bargains described. Mailed free. World's largest, 53 years service. Strout Realty, 20-V West 9th St., Kansas City 6, Mo.

640 Acres in Grass, Level, good wheat land if broke. No improvements. Located in Lincoln county, Colo. Price \$22.50 per acre. A. V. Snodgrass, Hugo, Colo.

REMEDIES—TREATMENTS

Latest Methods treating piles, fistula, colon-stomach disorders. Write for free book. McCleary Clinic and Hospital, E340, Excelsior Springs, Mo.

Public Sales of Livestock

Holstein Cattle. March 23—Tulsa Spring Classic, State Fairgrounds, Tulsa, Okla. Robert W. Adams, Sale Manager, 116 E. 5th St., Tulsa, Okla. May 20—East Central Kansas 3rd Annual Holstein Sale, Tonganoxie, Kan. Grover Meyer, Sale Manager, Basehor, Kan.

Aberdeen-Angus Cattle. March 26—U. S. Center Aberdeen-Angus Sale, Smith Center, Kan. March 27—Kansas 48th Sale, Salina, Kan. March 30, 1953—Kansas Special Registered Aberdeen-Angus Sale, Ericson, Thalmann & Davis, Hutchinson, Kan. April 1—Southeast Kansas Aberdeen-Angus Breeders Association, Iola, Kan. Clarence C. Ericson, Savonburg, Kan. April 9, 1953—Kansas Aberdeen-Angus Association, Hutchinson, Kan. Phil Sterling, Secretary, Canton, Kan. April 11—Oscar Latzke & Elmer Sellin, Junction City, Kan. April 16—Northeast Kansas Aberdeen-Angus Association, Horton, Kan. Wayne Ukena, Sale Manager, Everset, Kan. George C. Wreath, Sale Manager, Belleville, Kan. April 21—Herman J. Steinbuechel Dispersion, Florence, Kan. Sale at J. J. Crowther Sale Barn, Canton, Kan. May 1—A-Bar-A Ranch, Encampment, Wyo. Sale at Silver Top Farm, Belton, Mo. H. B. McCorkle, Sales Manager, Smithville, Mo. May 4—Penney & James, Hamilton, Mo. J. B. McCorkle, Sales Manager, Smithville, Mo. May 5—Marycrest Farm, Maloy, Ia. J. B. McCorkle, Sales Manager, Smithville, Mo. May 6—Harken Farms, Osceola, Ia. J. B. McCorkle, Sales Manager, Smithville, Mo.

Hereford Cattle. March 24—Doty Farm, Nelson, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo. April 2—Reser & Straight Creek Farm Joint Sale, Emporia, Kan. April 4—John Simpson & Sons, Edgerton, Mo. April 6—3 Way Hereford Sale, Hutchinson, Kan. April 14—North Central Kansas Hereford Association, Belleville, Kan. George C. Wreath, Sale Manager, Belleville, Kan. April 16—Dutlinger Brothers, Monument, Kan., and Homestead Ranch, Levant, Kan. Sale at Oakley, Kan. April 18—Mid West Polled Hereford Association Show and Sale, Desher, Nebr. Fred C. Duey, Sale Manager, Chester, Nebr. April 22—John Ravenstein & Son, Belmont, Kan. April 28—Kansas Hereford Sale, Emporia, Kan. May 1—Kaw Valley Hereford Farm, Manhattan, 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 6—Becker & 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.

Guernsey Cattle. April 13—Missouri Breeders' Association, Columbia, Mo. H. A. Herman, Secretary, 409 Exchange National Bank Building.

Polled Hereford Cattle. March 23—Kansas Polled Hereford Association Bull Sale, Norton, Kan. Vic Roth, Secretary, Hays, Kan. 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, Paico, Kan. Sale at Plainville, Kan. Vic Roth, Sale Manager, Hays, Kan. April 20—Paul & Gladys Molz Polled Herefords, Kiowa, Kan. April 21—Joe Maes Polled Herefords, Bushton, Kan. Sale at Osborne, Kan. Vic Roth, Sale Manager, Hays, Kan. May 20—Golden Willow Ranch, Liberal, Mo.

Red Poll Cattle. November 11 & 12—Annual meeting and National Sale, Topeka, Kan. F. A. Sloan, Secretary, 3275 Holdrege St., Lincoln, Nebr.

Shorthorn 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 15—Shorthorn and Polled Shorthorn Breeders Show and Sale, State Fairgrounds, Hutchinson, Kan. Mervin F. Aegerter, Sales Manager, Seward, Nebr. April 20 & 21—National Polled Shorthorn Congress Show and Sale, Hutchinson, Kan. American Polled Shorthorn Society, Sales Managers, 7 Dexter Park Ave., Chicago 9, Ill. April 22—Thiemans, Concordia, Mo.

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.

COMING EVENTS

March 21—Smith county regional 4-H Club Day at Plainville, 10 A. M. to 3 P. M. March 21—Doniphan county regional 4-H Club Day at Hiawatha, 9 A. M. to 3 P. M. March 21—Kearny county regional 4-H Club Day at Deerfield. March 21—Bourbon county model meeting, talks and demonstrations at Fort Scott courthouse, 9 A. M. March 21—Cherokee county 4-H Club days, model meeting, talks and demonstrations at C.C.C.H.S. in Columbus. March 23—Scott county electricity and diesel school, Scott City. March 23—Grant county deep chiseling and terrace maintenance meeting with Walter E. Selby and R. C. Lind of KSC. Ulysses 4-H Club building, 10 A. M. March 24—Grant county garden and grain pests meeting. Ulysses 4-H building, 10 A. M., tentative. March 24—Five-state Farm Forum, at Liberal. March 24—Hodgeman county livestock outlook meeting, Jetmore courtroom. March 24-26—Annual report, Artificial Breeding Association, at Manhattan. March 25—Ottawa county carcass grading demonstration of swine and beef, 10 A. M. Place to be announced. March 25—Nemaha county 4-H training in demonstration with Raymond Fort of KSC. March 25—Morris county 4-H Club leaders meeting with Roger E. Regnier of KSC. Camp Freemont, 10 A. M. March 25—Bourbon county 4-H council meeting, Ft. Scott courthouse, 8 P. M. March 26—Grant county meeting with L. E. Willoughby and Frank G. Biebery of KSC. Ulysses 4-H building, 10 A. M. March 26—Scott county crops grading meeting, Goodland. March 26—Wallace county district grain grading meeting, Colby school. March 26—Doniphan county 4-H Club leaders training meeting, Troy, 10 A. M. to 3 P. M. March 26—Hamilton county diesel and electric engine school, Syracuse. March 26—Clay county hog carcass demonstration. Time and place to be announced. March 26—Cloud county livestock carcass demonstration and grading school, Concordia, sales pavilion. March 26-28—State Home Economics Association meeting, Manhattan. March 27—Scott county Extension agent's school, Colby. March 27—Norton county district grain grading school at Legion hall, Norton, 10 A. M. March 27—Ness county Mid-Kansas Angus field day at Harold Gless farm, Arnold, all day. March 27—Kearny county winter school on diesel maintenance and care of shop motors, Lakin. March 30—Elk county Livestock Association meeting on pasture management, at Howard Fair building, 8 P. M. March 31—Sheridan county leaders training meeting on electrical equipment and water sanitation, Hoxie, 10 A. M. March 31—Shawnee county landscaping meeting. March 31—Pottawatomie county farm meeting summary and analysis, Westmoreland. March 31—Jewell county Farm Management Association spring summaries meeting, Mankato courthouse, 2 P. M. April 1—Rawlins county milk and equipment sanitation meeting, Atwood Extension office, 10:30 A. M.

Lift Meat Embargo

A year-old embargo on shipping livestock and fresh meat from or thru Canada to the U. S. was lifted March 2, 1953. Canada has been found free of foot-and-mouth disease, serious outbreak which caused the embargo.

Research Policy Committee Meets

Eighteen questions facing agriculture were submitted by the Agricultural Research Policy Committee, meeting in Washington, D. C., February 19 and 20. The committee advises the Secretary of Agriculture on research and marketing work, and meets quarterly. Some of the 18 questions are: (1) How can we reverse downward trend in soil fertility? (2) How can farm work be made more productive by use of power, equipment and efficient work methods? (3) How can we improve nutrition of plants, animals and hu-

Kill Those Weeds!

Santobrite (sodium pentachlorophenate chemical of Monsanto Chemical Company, St. Louis) is used for effective and economical pre-emergence control of weeds in crops. For a new, 8-page leaflet on Santobrite, write to Farm Service Editor, Kansas Farmer, Topeka, Kan. No charge.

mans by better use of soil resources, fertilizers and feeds? (4) How can research help farmers organize and manage their farms for profit and income stability? (5) How can we reduce spoilage and loss of product quality between the farm and consumer's table? (6) How can processing and marketing costs be reduced to benefit producers, market operators and consumers?

County Agents Change

County agent Leslie Frazier, Edwards county, has been transferred to Rice county to replace Glenn Shriver, who resigned to accept a position at Pratt. George Dunn, who has been on military leave, has returned to Edwards county as agent.

KIRLIN LISTED CORN CULTIVATOR. Why Pay More? Lift & Pull Type. Lift Type complete for: Ford-Ferguson, John Deere, Allis-Chalmers, IHC Farmall. We have Ford-Ferguson Lift-Type Complete Flows. Write for circular and prices. FORGY PLOW COMPANY, Centralia, Kansas.

Dairy CATTLE

75 REG. GUERNSEYS. Sell in 16th Missouri State Sale April 13 — 11 A. M. Columbia, Mo. AN OUTSTANDING CONSIGNMENT FROM 5 STATES.

20 COWS—Many fresh 2-year-olds. Cows with records up to 12,000 lbs. milk. 30 BRED HEIFERS—By popularly bred production bred sires and from dams with 11573-685-2x. Bred to outstanding bulls. 17 OPEN HEIFERS—Outstanding prospects for herd building, show, and junior dairy. Many dams over 10,000 milk. 5 BULLS—The herd improving kind. Top classification and high production insisted upon when bulls were selected. 20 COWS AND HEIFERS FROM THE UNIVERSITY OF MISSOURI HERD. Largely Foremost and St. Albans breeding.

For catalog write MISSOURI GUERNSEY BREEDERS' ASSOCIATION, 409 Exchange National Bank Building, COLUMBIA, MISSOURI.

WISCONSIN DAIRY CATTLE

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

10-MONTH-OLD HOLSTEIN BULL. Born May 6, 1952. Would be large enough to serve heifers now. Sire is our Silver Medal Production Sire and dam is out of a 760-lb. daughter of the same sire. Price very reasonable. Also a 9-month-old calf out of a 607-lb. 4-year-old classified Very Good. This is one of the best. ERNEST A. REED & SON, Lyons, Kansas

FOR SALE Reg. Brown Swiss Bulls. Serviceable age, some dams with over 500 pounds fat. Also some registered Brahman bull calves 10 months old. G. D. SLUSS, El Dorado, Kan., 4 miles south on Hiway 77

REGISTERED JERSEYS. All ages, sired by Dynamo Blonde and Design Wonder Observer. Marshall Bros., Sylvia, Kansas

April 4 Will Be Our Next Issue. Ads for the Classified and Livestock Section must be in our hands by Tuesday, March 24. If your ad is late, send it in Special Delivery to 912 Kansas Ave. Kansas Farmer, Topeka, Kan.

Midwest Polled Hereford Association SHOW & SALE

APRIL 18, 1953

DESHLER, NEBRASKA

Judge: **GEORGE CUMMINGS**, Amherst, Colo.

72 HEAD — 47 Bulls — 25 Females

CONSIGNORS



	Bulls	Females
Beebe, Henry C. & Son, North Bend, Nebr.	1	0
Barnes, Jesse, Clay Center, Nebr.	1	1
Cox, Edgar, Guide Rock, Nebr.	1	0
Cox, Harold, Guide Rock, Nebr.	1	0
Cornell, Walter, Beaver City, Nebr.	1	0
Doty, W. Lin, Burchard, Nebr.	2	0
Duey, Don R., Chester, Nebr.	1	0
Duey, Fred C. & Sons, Chester, Nebr.	2	2
Ebel, Leo & Son, Wamego, Kan.	2	2
Ebel, Dean, Wamego, Kan.	1	2
Fattig, C. L. & E. M., Cambridge, Nebr.	2	0
Fattig, Alfred, Cambridge, Nebr.	2	0
Gerdes, Merum, Hardy, Nebr.	0	2
Hajek, Joseph, Odell, Nebr.	2	0
Hoops, Rudolph, Byron, Nebr.	2	0
Kuhlmann, Wm. F., Chester, Nebr.	1	0
Kuhlmann, J. H. & W. O., Chester, Nebr.	2	0
Kuhlmann, Kenneth, North Platte, Nebr.	2	2
Madsen, A. R. & Son, Minden, Nebr.	1	2
Matheson, Everett, Natoma, Kan.	2	2
McCann, H. H., Edison, Nebr.	2	2
Miller, Jarvis, Oxford, Nebr.	1	0
Nesmith, E. G. & Son, Chester, Nebr.	1	0
Psota, R. E., North Loup, Nebr.	2	0
Paul, Wesley, Davenport, Nebr.	1	0
Robinson, F. L. & Son, Kearney, Nebr.	1	0
Rhodes, Loyal, Edison, Nebr.	1	0
Robert, L., Rizek, Belleville, Kan.	1	0
Sukowaty, Fred, Plymouth, Nebr.	2	0
Schelmeyer, Melvin & Mary, Superior, Nebr.	1	0
Shane, J. C. & Son, Node Wyo., Nebr.	1	0
Sell, John C., Chester, Nebr.	1	0
Sell, Jack V., Chester, Nebr.	0	3
Skucius, Hubert & Son, Chester, Nebr.	1	1
Trenchard, Paul, Edison, Nebr.	1	0
Valek, Ed & Son, Wayne, Kan.	2	1
Warner, Marvin J., Nebraska City, Nebr.	0	4

The Midwest Polled Hereford Breeders will hold their annual banquet and business meeting at 7:00 P.M. on Friday, April 17th, at Deshler, Nebraska. For reservations and tickets, contact Jay Beaver, Deshler Sales Co., Deshler, Nebraska.

For Sale Catalogs and Information, Write To
FRED C. DUEY, Chester, Nebraska

Auctioneer: Charles Corkle, Norfolk, Nebr.

Mike Wilson for Kansas Farmer

HEREFORD CONSIGNMENT SALE April 10, 1953

at 1:00 P. M. Riverside Park

Iola, Kansas

18 BULLS and 7 HEIFERS
Both Bred and Open

There will be some of the more popular bloodlines represented, and good quality cattle. For catalog and other information contact:

RALPH E. SMITH

Sale Manager and Auctioneer
519 SOUTH BUCKEYE, IOLA, 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

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)

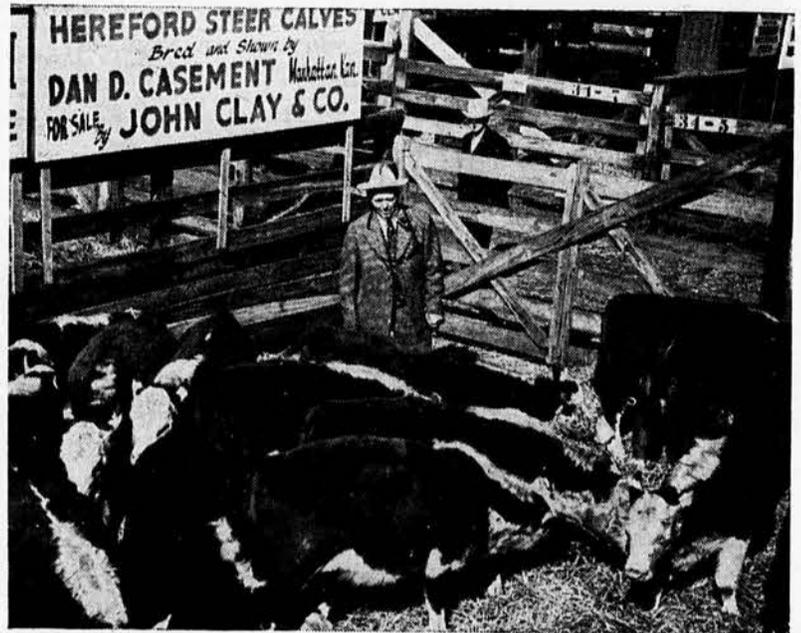
Mail Your Ad to

KANSAS FARMER

912 Kansas Avenue

Topeka, Kansas

Dan Casement—Squire of Juniata Farms And Top Stockman—Lives in Memory



DAN CASEMENT admired his favorite stock show entry—carlot of Hereford steer calves.

*The foals are here again this year.
They're out to get your money.
So crowd about and shell it out,
For every foal's a honey!*

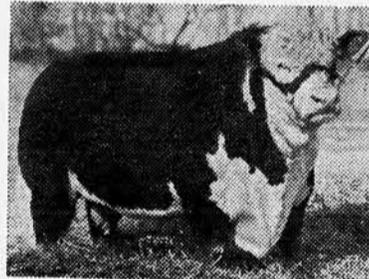
THAT'S THE POEM which appeared on the cover of a sale catalog at recent second annual sale of Quarter horses at Casement Hall, Manhattan. And that was Dan Casement for you—the poem he used personified his lively agricultural spirit and love of animals and farm life and folks. His death March 7 at his home in Manhattan removed from the agricultural scene one of the most colorful and progressive

stockmen Kansas and the Nation ever has known.

Colonel Dan was a man known far and wide across these lands. Whenever better livestock and better farm practices are discussed, it's not long before the name of Dan Casement comes up. This fact and the man's achievements were recognized at 2 big national farm events in 1952. At the International Livestock Exposition at Chicago, more than 350 leaders of the livestock industry and friends honored the 84-year-old stockman at a luncheon at the famous Saddle and Sirlon Club. Jess C. Andrew, exposition president, said

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

- 4 Polled Bulls, 2 years old, sired by ALF Beau 14th.
- 3 Horned Bulls, 2 years old, sired by ALF Beau 14th.
- 9 Polled Yearling Bulls, sired by ALF Choice Dom. 80th.
- 9 Horned Yearling Bulls, sired by ALF Choice Dom. 80th.
- 8 Horned Yearling Bulls, sired by Anxiety Brummel 57th.
- 5 Horned Cows with calves by side sired by JSS Domino, son of ALF Beau Rollo 39th.
- 11 Bred Heifers, polled and horned, sired by ALF Beau 14th, and bred to HHR D. W. 23rd, son of Domestic Woodrow 23rd, a Halbert bred bull.
- 10 Open Polled Heifers, sired by ALF Choice Dom. 80th and ALF Beau 14th.
- 3 Open Horned Heifers, sired by ALF Choice Dom. 80th and ALF Beau 14th.

ALF Choice Dom. 80th, our herd sire, is a full brother to ALF Choice Domino 6th, the A. G. Rolfe herd sire and national champion.

For Catalogs Write

VIC ROTH, Sale Maager

Box 702 — Hays, Kansas

Freddie Chandler, Auctioneer

Mike Wilson for Kansas Farmer

DARREL HINKHOUSE, Palco, Kansas, Owner

the colorful cattleman "has done as much as any man in America to advance the cattle industry to its present state of excellence. It is men like Dan Casement who have given our people the best food in the world—food that has provided them with the strength to build this mighty Nation to the world power it is today."

Mr. Casement was presented with a silver-bowl trophy as a tribute. One of the old-time trail riders, he was noted in livestock circles for his outspoken beliefs on the free enterprise system. His colorful language, vests and ties also helped make him an unforgettable figure. Upon receipt of the trophy, Mr. Casement told the group he thought the tribute was highly exaggerated, and totally undeserved, but "I love the impulse that led you to say it."

Another national, special ceremony in 1952 lauded his role in the livestock industry. At the American Royal at Kansas City, Dan Casement was honored as an outstanding livestock man and an American Royal exhibitor for 45 consecutive years. The ceremony was a part of "Kansas Day" at the show, with Governor Arn making the presentation. The Governor said, "He is known throughout the livestock industry as a rugged individualist and has set a mark for modern breeders to shoot at in the development of good livestock." Mr. Casement was presented a silver tray.

Was Highly Regarded

Thirty years ago Dan Casement was the best-known and one of the most highly regarded livestock men in America. Every year he grew in stature and in the hearts of his fellow man. What lies behind that marvelous livestock record and personal character?

Dan Dillon Casement was born on July 13, 1868, on the farm of his maternal grandfather, at Painesville, O. First schooling was in the district school on the farm, then at Central School in Manhattan, then at Adrian, Mich., where his father was building a railroad

branch. Then back to school in Ohio. In 1886 he was graduated from Western Reserve Academy, Hudson, O. In 1890 he was graduated from Princeton, then received a master's degree from Columbia in 1891. In July of that year he went to Colorado to live on a family ranch (Unawep Ranch) and be a joint manager. On December 1, 1897, he was married, and lived in Costa Rica for 6 years where he and his father built a railroad. Three children were born to the Casements—Mary, Frances and Jack.

A Consistent Exhibitor

In 1908 Dan Casement exhibited his first beef cattle, at the American Royal at Kansas City, in the carlot class. He won first in his class as well as breed championship. Since then he exhibited at every major stock show in America, won dozens of top prizes, thousands of dollars in premiums, thrills galore. In 1915 the Casement family settled at Juniata Farms in Riley county. In World War I he served in Field Artillery, went to France. Upon his return to Manhattan he established his reputation—"as a maker of beef and pork on the hoof," as he wrote in his privately-published autobiography in 1944. Soon, too, he began writing for agricultural journals. In 1933, he wrote, he began to be "a violent dissenter" to many governmental orders, and wrote often on invasion of business.

Known for his zest for living, Mr. Casement ended his autobiography with "I've sure had a grand time." He was a friend of stockmen, artists, professors, writers, financiers, army men, others. In 1939 his oil portrait was hung in the Saddle and Siroin Club at Chicago during the International Livestock Exposition—a signal honor of agricultural achievement to many folk in the farm world. In 1935 he was president of the Farmers Independent Council of America. His stimulation brought about organization of American Quarter Horse Association in 1941.

PAUL'S POLLED HEREFORD SALE



KIOWA, KANSAS

APRIL 20, 1953—1:00 P.M.

SALE AT RANCH — Four miles west of Kiowa on highway 281, one mile south, then one mile west on Kansas-Oklahoma State line.

SELLING 46 LOTS — 22 Bulls — 24 Females

- 12 Bred heifers sired by Mischief Domino and C Mischief President 54th and bred to Mischief Onward.
- 12 Open heifers sired by Mischief Onward and C Mischief President 54th.
- 10 Coming 2-year-old bulls sired by C Mischief President 54th, Mischief Onward and Mischief Domino.
- 12 Yearling bulls sired by Mischief Onward and C Mischief President 54th.

FREDDIE CHANDLER, Auctioneer

For catalogs write

VIC ROTH, Sale Manager

Box 702, Hays, Kansas

PAUL & GLADYS MOLZ

Kiowa, Kansas, Owners
Mike Wilson for Kansas Farmer

**JOE MAES
POLLED & HORNED
HEREFORD SALE**



**OSBORNE,
KANSAS**

APRIL 21, 1953

1:00 P. M.

Selling at the Osborne Sale Pavilion

Selling 17 Bulls — 65 LOTS — 48 Females

- 1 Herd sire, WHR Polled Helmsman.
- 20 Polled females sired by ALF Beau Rollo 11th, KHR Royal Plato 20th, and WHR Polled Helmsman.
- 7 Polled yearling bulls sired by WHR Polled Helmsman, KHR Royal Plato 20th, and ALF Beau Rollo 11th.
- 28 Straight horned bred females sired by C.K. Crusader 45th, JO Royal Domino 4th, Royal Duke 43rd, and JO Royal Duke.
- 9 Straight horned bred yearling bulls sired by CK Crusader 4th, JO Royal Duke, JO Royal Domino 4th and P Royal Duke 43rd.

These are all young cattle selling except the Lot 1 bull, and are a very toppy set of cattle, herd bull prospects and top foundation females. All our 1952 heifer calf crop sells in this sale.

Freddie Chandler, Auctioneer

For catalogs write

VIC ROTH, Sale Manager

Box 702

Hays, Kansas

JOE MAES, Bushton, Kansas, Owner

We are keeping many daughters of WHR Polled Helmsman in our herd so will sell this great breeding bull in this sale.

Mike Wilson for Kansas Farmer

Beef CATTLE

REG. HEREFORD BULLS

10 to 18 months old. Sired by: OJR Jupiter Star 12th, Domino Lad KTO 11th and F. Elation 22. Top range and herd bull prospects.
WAITE BROS., Winfield, Kansas

Reg. Polled Herefords

FOR SALE:

Bulls from 10 to 15 months old sired by WHR Leakan 5th, Open Heifers. Bred Heifers carrying the service of Modest C. Lamp-lighter 15. Priced reasonable.
WALBERT J. RAVENSTEIN
Adams, Kansas

FOR SALE

Serviceable age bulls, descendants of our champions from our cow herd that is bred in the purple. If you are in the market for good Polled Hereford bulls, don't fail to pay us a visit. Plain View Farms,
JESSE RIFFEL & SONS, ENTERPRISE, KAN.

BUY MISSOURI

POLLED SHORTHORNS

at the Missouri Breeders State Show and Sale at

SEDALIA, MO.

APRIL 6

Show 9 A.M.—Sale 1 P.M.

23 Consignors Sell 63 Head

You will find bulls and females that you will like in this auction. They have type and breeding that will meet with your approval. Many of Missouri's best Polled Shorthorns will sell in this auction.

Sale held at the Missouri State Fair Grounds

For sale catalog write to

**ROLLO E. SINGLETON
Sales Manager**

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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**

HOGS

SIMPSON'S DUROC HOG AND HEREFORD CATTLE SALE

at farm 30 miles southeast of

St. Joseph, Mo.

or 30 miles northeast of Kansas City, Mo.

Note Duroc sign on 169 highway

Saturday, April 4—12:30 Noon



- 20 FALL BOARS
 - 30 OPEN FALL GILTS
- These medium type Durocs are sired by Timekeeper and Adventurer.
- 14 POLLED AND HORNED BULLS. Bulls mostly service age.
 - 10 COMING YEARLING HEIFERS, horned and polled.

For sale catalog write to

**JOHN W. SIMPSON & SONS
EDGERTON, MISSOURI
(Farm 1 mile east and 1 mile north.)**

Buy MISSOURI DUROCS

at the Baker Sales Pavilion on highway 71, one mile south of

**Carthage, Mo.
April 7—1 P. M.**



SELLING 50 OPEN FALL GILTS, 16 FALL BOARS, 10 SOWS BRED FOR THEIR 2ND LITTERS. These sows raised 9 pigs their first litter. Some of these sows should farrow by sale day. All will farrow in April. They are mostly sired by Velvet Blend and Perfect Lad A. Again: bred to the kind of boars that has made raising Durocs a good business for us. Offering cholera immune and registered.

20 HEREFORD FEEDER STEERS — Just right to go on grass or feed lot. Weighing 600 lbs. and they are vaccinated, castrated and dehorned.

For sale catalog write to
ED KNELL & SONS, Carthage, Mo.

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

BUILD BETTER BEEF

By Buying a GOOD BULL in the ANNUAL HUTCHINSON

SHORTHORN & POLLED SHORTHORN SHOW & SALE

April 15, 1953

Hutchinson, Kansas

at the KANSAS STATE FAIRGROUNDS



SHOW—9:30 A. M.

SALE—1:00 P. M.

Judge—Geo. Schliekau, Haven, Kan.
Auctioneer—Gene Watson

SELLING 44 HEAD

20 Shorthorn Bulls	7 Shorthorn Females
12 Polled Shorthorn Bulls	5 Polled Shorthorn Females

For extra pounds, price and profits consider Shorthorns and Polled Shorthorns

The best set of strong aged Shorthorn and Polled Shorthorn bulls ever offered in a Hutchinson spring sale. Two-year-olds and strong yearlings ready for heavy service. Included are several bulls that were top winners of last year's Kansas State Fair.

Buy These Top Females for Sound Investments

There will be 5 bred heifers and 7 open heifers, real prospects for herd replacement or establishment of new herds.

REMEMBER . . . you will find the Shorthorn or Polled Shorthorn bull you need here at Hutchinson at a price you can afford to pay on April 15.

For the catalog and other information, address

MERVIN F. AEGERTER, Sale Manager
Seward, Nebraska

Sponsored by CENTRAL KANSAS SHORTHORN BREEDERS' ASSN.

CONSIGNORS:
CLARENCE SHIRK, Sedgwick; H. S. PECK, Rt. 3, Wellington; McLRATH BROS., Kingman; W. V. HARSHMAN, Clements; LOVE & LOVE, Partridge; S. S. ZIEGLER, Paleo; R. L. BACH, Larned; C. R. JOHNSON, Sylvia; MERLE D. OLDENETTEL, Haven; ELLA AND MERLE OLDENETTEL, Haven; JOHN A. MORGAN & SONS, Hutchinson; EARL J. FISHER, Norwich; JOHN A. DUNN, Hutchinson; W. G. OLSON, Clements; E. W. DAVIDSON, Americus; R. C. HOTCHKISS, Leon; CONSTANTIN E. DIETZ, Ness City; N. J. MEYERS, Chase; EARL GRAY, Easton; and BRUCE TUCKER, Michigan Valley, Kan.
Mike Wilson with Kansas Farmer



In the Field

MIKE WILSON
TOPEKA, KANSAS
Livestock Editor

The REPUBLICAN VALLEY HEREFORD ASSOCIATION sale held at Red Cloud, Nebr., on March 6, totaled \$19,690 to make a general average of \$317 on 62 head. Forty-seven bulls averaged \$321; 15 females averaged \$300. Both champion bull and reserve champion bull was consigned by Richard Larrick, Bladen, Nebr. Champion bull was RL Crafts Domino 36th. He was purchased by Francis Wilson, Inavale, Nebr., for \$610. Reserve champion bull was RL Crafts Domino 42nd, selling to Wm. Choquette, Upland, Nebr., for \$445. Ed Hanson purchased Jr. Mixer 42nd for \$610. He was consigned by F. B. Marker, Inavale, Nebr. Lawrence Manglers, Roseland, Nebr., had both champion and reserve champion females. Champion was New Type Lady 2nd, and sold to C. M. Wilson, Inavale, Nebr., for \$500. Col. Charles Corkle sold the offering.

Due to a howling wind and snowstorm the GREAT PLAINS HEREFORD SALE, held at Hill City, March 4, was held without your editor in attendance. Ice roads and drifts prevented his attendance. There is a report sent in. The Kansas Great Plains Hereford sale made an average of \$364 on 68 head. Thirty-four bulls averaged \$371; 24 females averaged \$355. J. A. Schoen, Lenora, consigned the top-selling bull. He was purchased by S. F. Dewep and Schneider Ranch, Norton, for \$900. Foster Farms, of Rexford, consigned the top-selling female, Lot 9, FF Proud Dutchess 18th, purchased by Schneider Ranch, Stockton, for \$850. Col. Gene Watson sold the offering.

About 60 persons attended the KANSAS POLLED HEREFORD BREEDERS' ASSOCIATION pre-sale banquet at Herington, February 19. Program for the evening consisted of remarks by Gene Sundgren, judge of the show the following day, some very interesting slides of the Okeene, Okla., rattlesnake hunt and Wes Seyler, WIBW farm director, showed slides of his recent trip to the Hawaiian Islands. Following the banquet a business meeting was held. These men were elected: Cecil Medley, presi-

dent; Arnold Wittorff, vice-president; O. J. Shields, secretary-treasurer; directors, Elmer Riffel and Leo Ebel. This organization made plans for a picnic the first Sunday in June. Plans were made for a sale next November.

TWENTY-FOUR KANSAS HERDS of registered Holstein-Friesian dairy cattle have been inspected and classified for type by Holstein-Friesian Association of America.

A total of 603 head was inspected in herds of: Kenneth Benedict, Louisburg; Martin Blanke, Bremen; Merton G. Bliescher, Bala; J. W. Carlin, Smolan; Dillon Brothers, Pomona; Dodson Bros., Augusta; Edgar J. Hege, Oxford; Arthur Jensen, Olathe; Kansas State Penitentiary, Lansing; Moberly Bros., Ames; Edwin H. Ohlde, Linn; Paul L. Rust, Parsons; Eugene R. Smith & J. M. White, Topeka; Wallace J. Beckner, Belle Plaine; Earl A. Boyle, Belle Plaine; Lester Conner & Son, Lyons; Double R Dairy, Newton; John & George Heersche, Mulvane; Leo H. Hostetter, Harper; Floyd Jantz, Canton; Ernest A. Reed & Sons, Lyons; Luther Shetlar, Conway Springs; Lloyd Shultz, Pretty Prairie; Clarence Zarnowski, Halstead. Results are used to further improve Holstein breed thru locating outstanding sires and dams from standpoint of body conformation as well as inheritance for milk production.

R. C. "PAT" BEEZLEY AND WILLIAM M. BEEZLEY, Girard, are owners of a new champion Holstein for Kansas—Zeezley Farm Burke Sarah, 7-year-old that broke a record that has stood since 1929. She produced 1,035 pounds of butterfat from 23,419 pounds of milk in 365 days on 3-times-a-day milking. Previous record was 1,018½ pounds of butterfat, from Holstein owned by H. A. Dressler, Lebo. That cow was milked 4 times a day.

The new champion always has been in a pasture or lot with at least 45 other cows. She has never been in box stall, received no hay from April 1 to August 15. For the first month of test she had Atlas ensilage and 40 pounds of alfalfa-brome hay. She has produced 4 calves, all bulls. Her dam was Susie Ormsby Lou Homestead and her sire, Pabst Burke Tritomin, a gold medal sire, with the Holstein-Friesian Association of America.

The KANSAS YORKSHIRE BREEDERS' ASSOCIATION held their annual meeting at Marion, February 27. After the dinner a business meeting was held. This association elects 2 members to the board of directors each year; George W. Behnke was re-elected and Lowell Unruh, Hillsboro, was elected for a term of 3 years. Other officers elected: Velsa Hall, South Haven, president; Lowell Unruh, Hillsboro, vice-president and Geo. Wm. Burkholder, Abilene, secretary-treasurer. Thirty-eight persons attended this meeting. The association now numbers 26

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

50 BULLS — 70 FEMALES

WRITE US FOR SALE CATALOG

AMERICAN POLLED SHORTHORN SOCIETY
7 Dexter Park Ave. Dept. KF Chicago 9, Illinois

REAL PLATO DOMINO SALE

APRIL 6, 1953

HAYS, KANSAS



SELLING 40 HEAD
20 Bulls — 20 Females

HAYS SALE PAVILION — 1:00 P. M.

Selling the Offspring of Real Plato Domino the 1940 National Champion

Herd Bull Prospects and Top Females Being Offered

Consignors

TOM B. ANDERSON	Bunker Hill
BRANNAN & REINHARDT	Timken
BRANNAN & UMBERGER	Rozel
ERNEST EGGER & SON	Ellis
EMANUEL KARST & SONS	Bunker Hill
JOHN N. LUFT	LaCrosse
JAKE REICH & SON	Paradise
JOHN SELL	Chester, Nebr.
ED VALEK & SON	Wayne
PAUL WALTER & SON	St. Francis
WALTER REVENSTEIN	Adams
ALLEN ENGLER & SONS	Topeka

For catalogs, write

VIC ROTH, Sale Manager
Box 702 — Hays Kansas
FREDDIE CHANDLER, Auctioneer
Mike Wilson for Kansas Farmer

You Will Find the Shorthorn or Polled Shorthorn Bull You Need at a Price You Can Afford to Pay . . . in the

NEBRASKA-KANSAS SHORTHORN AND POLLED SHORTHORN BREEDERS' AUCTION

at the Superior Sales Company Pavilion

SUPERIOR, NEBRASKA, TUESDAY, APRIL 7, 1953

SHOW AT 8:00 A. M. — SALE AT 12:00 NOON
Judge—Lester Love, Partridge, Kan. Auctioneers—Halsey and Kottmeyer

SELLING 113 HEAD

33 SHORTHORN BULLS	45 POLLED SHORTHORN BULLS
16 SHORTHORN FEMALES	19 POLLED SHORTHORN FEMALES

Sixty-five of these bulls are strong yearlings and two-year-olds. The remainder are early 1952 spring calves that will also be ready for service when you turn to pasture in May and June.

The females include 12 cows with calves at foot, 10 bred cows and helpers and 13 open heifers.

Registered Shorthorns and Polled Shorthorns are today's best buy in quality per dollar value in the beef cattle business, and a good beef cow herd is better than money in the bank. At the 1953 National Feeder Calf Sale at Denver in January, Shorthorn calves again won the grand championship award, and all of the Shorthorn feeder calves offered outsold those of the other two major beef breeders by \$3.30 per cwt. average. It pays to raise Shorthorns and Polled Shorthorns, commercially or purebred.

Every animal Tb. and Bang's tested.

For the catalog and other information, address

MERVIN F. AEGERTER, Sale Manager, SEWARD, NEBRASKA

members. Guests attending were J. Fred Rinker, Troy, Mo., assistant secretary of the American Yorkshire Club, Inc.; George Schneider, owner of Shangra La Yorkshire Farm, Freeburg, Ill.; B. B. Elling, agricultural manager of the Wichita Chamber of Commerce, Wichita, and L. K. Nurdyke, Wichita Stockyards Co., Wichita.

The **NESS COUNTY HOG BREEDERS** held a sale of Spotted Poland Chinas and Berkshires, February 28, at Ness City. Twenty head were sold making a general average on bred gilts of \$91.09. Walter Rothe, Ness City, consigned top-selling female, purchased for \$112.50 on bid of Grover Rothe, Ness City. Around 150 persons attended. Weather conditions were good and stock sold were in excellent condition.

The **KANSAS SPOTTED POLAND CHINA ASSOCIATION** held their recent sale at Phillipsburg, February 23. Thirty-two head of Spots were sold for a general average of \$144.50. Top female was consigned by Henry Shipley, Lebanon, and sold for \$21.50 to Garold McDowell, Kirwin. Second high female sold for \$170, consigned by Joe F. Hieman, Baileyville, and purchased by Herbert Holliday, Berryton. Around 150 persons attended. Walter Woodyard, Indianola, Ia., was judge of show and H. E. Holliday, Richland, was sale manager.

The **CHISHOLM TRAIL ANGUS ASSOCIATION SALE** was held at Caldwell, February 11. Fifty-nine head of cattle were sold for an average of \$390 per head. Bulls averaged \$375 on 19 head; 40 females averaged \$397. J. W. Smith, Caldwell, consigned the top-selling female. She brought \$1,000 on bid of Ralph Berry, Stillwell. H. R. Wilk, Clearwater, consigned top-selling bull, purchased by Tom Shinn, Conway Springs, for \$535. Donald Morton, Argonia, was sale manager. Col. Ray Sims sold the offering.

On February 5, the **KANSAS DUROC BREEDERS' ASSOCIATION SALE** was held at Sabetha. Dean Bell, Lebanon, was sale manager. Forty-two Durocs were sold for an average of \$83.89 on 34 females and \$47.83 on 8 males sold. Herman Popp, Haven, consigned top-selling male, sold to L. Manderscheid, Rose, for \$60. Vern V. Albrecht, Smith Center, consigned top-selling female, purchased by Oliver Bricker, Farragut, Ia., for \$180. Willard Waldo, Dewitt, Nebr., was judge of show. Col. Bert Powell sold the offering.

CEDARCREST DAIRY FARM dispersal sale, February 25, at Independence, Mo., indicated a strong demand for grade Holsteins at very good prices—115 head were sold to buyers from a wide area. High cow of auction was a fresh 4-year-old that sold for \$675. This cow was giving 84 pounds of milk daily. A 4-year-old dry cow due in 30 days sold for \$582.50. Another 4-year-old made \$502.50 with many cows passing the \$400 figure. Production of this herd the past 4

years run from 403 to 473 pounds of butterfat. Donald Bowman, Hamilton, Mo., was sales manager and he also sold some of cattle. Bert Powell, Harvey Hartvigsen and Ray Holder were auctioneers.

HAROLD TONN, located at Haven, and owner of V ley View Ranch, noted for their good Herefords and Southdown sheep, informs me again this spring he will hold an auction of Southdown Sheep, exclusively for 4-H and FFA members. Mr. Tonn always has interest of boys and girls at heart. He offers them the finest in breeding and individuals. Many of the animals that have been sold in these sales have been developed and shown to champions at some of the larger shows in the Midwest. Any 4-H or FFA boy or girl desiring to engage in a lamb project this coming year should at once get in touch with Mr. Tonn and get the particulars on the coming events. Watch the *Kansas Farmer* for information on the sale in the near future.

The **NORTHEAST KANSAS BROWN SWISS BREEDERS** will hold their annual spring planning meeting at 1:00 p. m., March 16, in Room 102 of Topeka's Municipal Auditorium. There will be an election of officers and planning of the group's spring dairy show. Marvin Kruse, western fieldman for the Brown Swiss Cattle Breeders' Association, Fremont, Nebr., will present information and show films.

OLIVIER BROS., Harper, held their sale at the ranch, February 5. Fifty-seven head of Hereford cattle were sold in this sale. Wilson Hereford Ranch, Enid, Okla., purchased top-selling bull, at \$500. Dr. W. P. Callahan, Wichita, purchased top-selling female, for \$600. Average price for bulls was \$306; female average was \$297. Around 400 persons attended. Col. Gene Watson was auctioneer.

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	\$22.50	\$25.50	\$36.00
Hogs	21.50	21.15	17.75
Lambs	24.50	24.00	25.00
Hens, 4 to 5 lbs.	.28	.27	.24
Eggs, Standards	.42 1/2	.40 1/2	.32 1/2
Butterfat, No. 1	.58	.58	.70
Wheat, No. 2, Hard	2.44 1/2	2.44 1/2	2.52 1/2
Corn, No. 2, Yellow	1.59 1/2	1.60 1/2	1.95
Oats, No. 2, White	.89	.88	1.06
Barley, No. 2	1.43	1.36	1.48
Alfalfa, No. 1	42.00	45.00	35.00
Prairie, No. 1	34.00	38.00	26.00

FREE CATTLE BOOK



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

AMERICAN ANGUS ASSOCIATION
CHICAGO 9, ILLINOIS

See Our Consignment to the **SOUTHEAST KANSAS**

ANGUS SALE



at **Iola, Kansas**
on **April 1st**

1 Bull and 4 Females, by Prince Elgon 2nd of Top Notch, a grandson of R. L. S. Elgon and out of a Penney & James cow. We also have 15 Yearling Bulls and 20 Yearling Heifers for sale at the farm, at private treaty. Breeding as good as the best.

For particulars contact:

Clarence C. Ericsson & Sons
Savonburg, 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 & RAILSBACK, Quinter, Kansas

Sunflower Farms ANGUS



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

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

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

Registered ANGUS BULLS

2 two-year-old sons of Ever Bar.
ALBERT GOECKEL, WASHINGTON, KAN.

Dual-Purpose CATTLE

Duallyn MILKING SHORTHORNS

Herd sires from Duallyn have improved milking and fleshing quality of many herds. Buy a son of one of the noted proven sires: Imported Iford Earl Gwynne 11th, R.M., or Neralam Admiral R.M. Bull calves \$125.00 up—write for prices.
JOHN B. GATE, Rt. 1, Eudora, Kansas

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1629 Plass Avenue Topeka, Kan.

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Effective February 1, 1951
1/2 Column inch (5 lines)...\$3.50 per issue
1 Column inch...\$9.80 per issue
The ad costing \$3.50 is the smallest accepted. The smallest public sale ad accepted is 1 column by 2 inches, costing \$19.60.

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

MIKE WILSON, Livestock Editor
912 Kansas Avenue
Kansas Farmer - - Topeka, Kansas

THE 13TH ANNUAL SHOW AND SALE OF THE MID-KANSAS ABERDEEN-ANGUS BREEDERS' ASSN.

APRIL 9, 1953

State Fairgrounds

HUTCHINSON, KANSAS

SHOW AT 9:00 A. M.—SALE AT 1:00 P. M.

Joe Hooten of Ft. Worth, Tex., will place cattle for selling order. 80 HEAD—20 BULLS, 60 FEMALES

The female offering is of good quality, most of the bulls are of serviceable age and extra good individuals, carrying the finest of pedigrees. These cattle have been selected from the following herds:

Consignors

ED & CARL ANDERSON, Jamestown
PAUL I. MARTIN, Augusta
WILLARD HUBER, Brownell
E. RALPH TITUS, Newton
HAROLD GEISS & SON, Arnold
HUDDLESTON BROS., Pomona
IRL F. RAMAGE, Little River
HENRY H. GHENN, Newton
H. G. ESCHELMAN, Sedgwick
ROUNTZ ABERDEEN ANGUS, Hutchinson
W. R. S. ANGUS FARM, Hutchinson
HOWARD COPLINGER, Jewell
ROY CLAUSSEN & SON, Russell
CLAUSSEN ANGUS RANCH, Russell
JAMES R. BATES, Louisburg
GREEN VALLEY FARM, Liberty, Mo.
RALPH POLAND, Junction City

K. L. KNOTT & SON, Hesston
KENNETH MOORE, Roxbury
HETT ANGUS FARM, Penbody
HERSCHEL JANSSEN, Lorraine
D. W. WRIGHT, Sterling
HAROLD FOUNTAIN, Penalosa
RAYMOND P. GEORG, Rush Center
VERNON MILLER, Great Bend
GEORGE MILLER JR., Great Bend
UNRUH BROS., Hillsboro
FLOYD SCHRADER, Rush Center
FRANCIS KRATZER, Geneseo
JIM HONEYCUTT, Blue Rapids
LEE F. GORGES, Fall River
HORACE ETBANK, Coats
E. J. TATGE & SON, Ramona
CLARENCE CASE & SON, Lyons

Annual Meeting Wednesday, April 8 at 7 P. M.

Sale headquarters, Hotel Bisonte, Hutchinson, Kansas

IRL RAMAGE, Sale Manager, Little River, Kan.

PHIL STERLING, Secretary, Canton, Kansas

For sale catalogs and other information contact either the sale manager or secretary.

MIKE WILSON FOR KANSAS FARMER

KANSAS ALL "487" SALE

Fri., March 27, 1953

SALINA, KANSAS

Beverly Sales Pavilion

Grandsons and Granddaughters of Eileenmere 487th.



51 HEAD
13 Bulls
38 Females

CONSIGNORS

L. L. Knott, Heston
Floyd Schraeder, Rush Center
Clarence Schraeder, Rush Center
Lloyd Ericson, Marquette
Wayne Ukena, Everest
Francis Kratzer, Geneseo
H. R. Wilk, Clearwater

Willard Huber, LaCrosse
Jones Angus Farm, Mulvane
Sunflower Farm, Everest
H. W. Ukena, Robinson
H. L. Ficken, Bison
Francis J. Perrier, Eureka
McQuillan Angus Farm, Clearwater

Also selling — HOMEPLACE EILEENMERE 46TH
a son of Eileenmere 487th

For catalogs write:

JOE J. McQUILLAN, Sales Manager

P. O. Box 203, Clearwater, Kansas

Auctioneer: Ray Sims

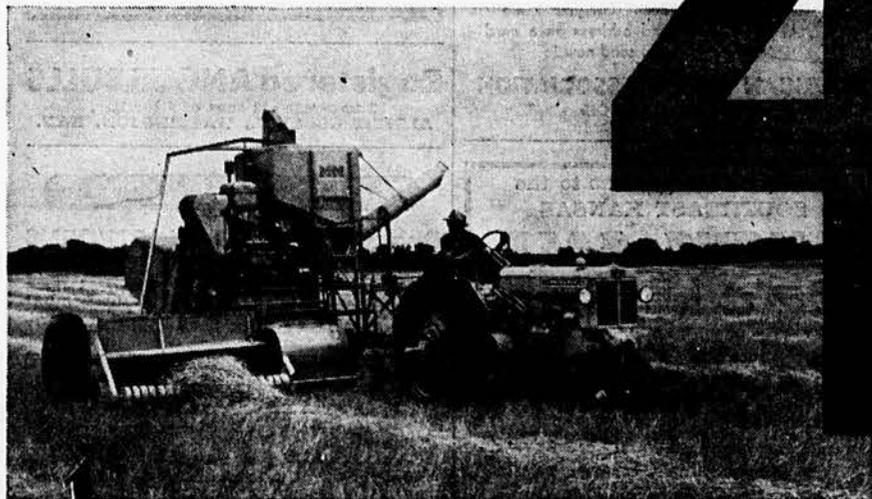
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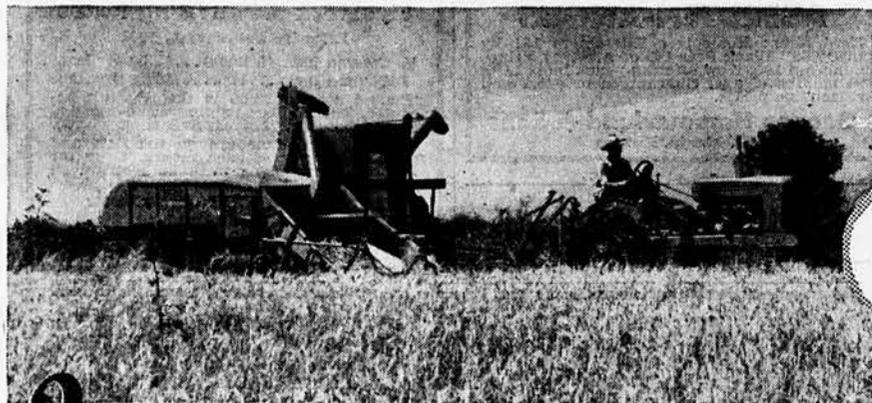
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Every Day!

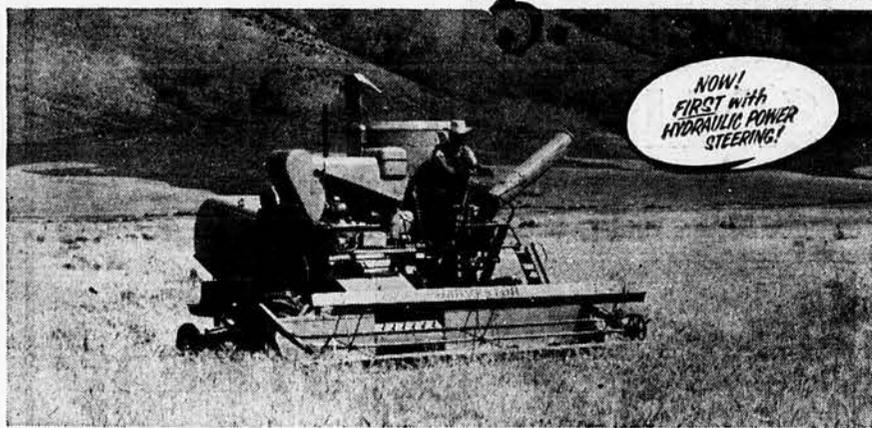


1. **BIG CAPACITY** and lightweight design make this MM G-4 Harvester the biggest-selling combine in its size. Easily handled by the 2-3 plow MM Z Tractor, the G-4 offers balanced construction, one or two-man operation.



2. **ONE MAN BECOMES** a whole harvesting crew with this MM "69" Harvester and 2-plow BF Tractor. As on all 4 MM Harvestors, exclusive, straight-through combining and one-piece concave and grate offer extra capacity, cleaner grain.

3. **HERE'S THE MIGHTY "S"** . . . Self-propelled Harvester with hydraulic Power-Flow drive. Many new design advantages plus recognized performance put the "S" in a class by itself for low-cost harvesting, bigger-profit operation . . . 12-, 13-, and 14-foot sizes.



*NOW!
 FIRST WITH
 HYDRAULIC POWER
 STEERING!*

4. **MAKING NEWS AROUND THE WORLD**, that's the new MM Uni-Harvester. Shown here with Harvester attachment, the Uni-Tractor also handles the 2-row Uni-Husker and Uni-Picker-Sheller attachments. New attachments on the way. See your MM dealer for additional facts!



See why **ALL 4 MM Harvestors** put you **MONEY AHEAD!**

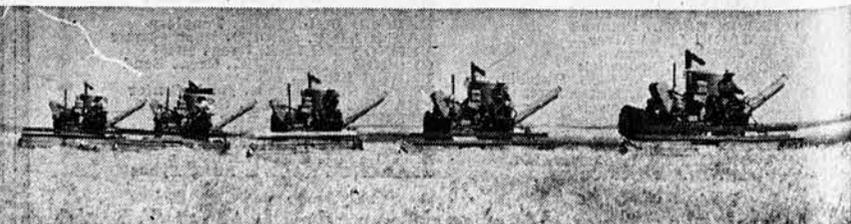
Today, when every machine on your farm has to show a surer profit than ever before, it's *twice* as important that you get the facts on the money-making HARVESTORS. Whether your farm calls for the MM Harvester 69, the 12-foot G-4, the self-propelled S Harvester, or the pace-setting new MM Uni-Harvester . . . MM gives you a combine that's built to pay you *bigger profits*, to cut your costs by cutting your time in the field.

THIS IS HOW MM HARVESTORS GIVE YOU MORE HARVESTING TIME

MM builds the Harvestors knowing that *minutes mean dollars* during harvesting season. That's why equipment like the MM auger unloader is standard on the Harvestors unless otherwise specified. With the MM auger you can save up to 2¼ hours of valuable time *every day*. Here's how! Combining 15 acres of 60-bushel grain in one day the auger unloader handles 900 bushels of grain. With the 20-bushel grain bin of the "MM Harvester 69", for example, you would unload 45 times. The fast auger unloader empties the bin in approximately 90 seconds. Compared to other combines that do not have the MM auger, the "69" saves about three minutes per unloading, or 2 hours and 15 minutes. And that's not all, MM Harvestors can be unloaded standing still or *on the go*. You do not have to stop to empty the bin . . . but you still get the same *faster operation* of the MM auger unloader.

SEE YOUR MM DEALER FOR HARVESTER FACTS!

If you want the *bigger capacity* operation and the *extra* harvesting time that MM Harvestors offer—see your MM dealer. He can give you real *facts* on all 4 Harvester models . . . facts that show *profits* in your farming operation.



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 MINNEAPOLIS 1, MINNESOTA