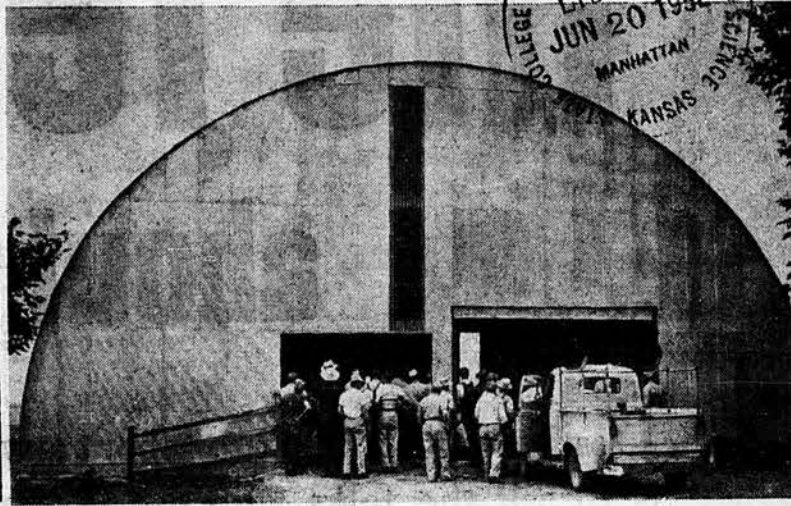


Kansas Farmer



MRS. EARL WITSELL, far right, tells about use of Kentucky 31 fescue to a group of farmers attending Bourbon county soils and crops tour.



FARMERS SHOWED a lot of interest in this barn on W. E. Davis farm. Laminated rafters for barn were made of native lumber.

What Others Are Doing— Sometimes an Eye-opener

... Farm tours, like this one in Bourbon county, growing more popular because they show results of better farming methods.

EVERY YEAR hundreds of farmers in every county of Kansas go on crop or farm tours to see what their neighbors are doing. They take this opportunity each year to catch up on all the latest ideas being practiced on farms listed on the tour.

In Bourbon county this year, the tour was interesting, emphasizing grass and legumes, with attention given to farm buildings and pasture brush eradication.

Mrs. Earl Witsell told tour visitors how they had seeded a 50-acre cultivated field back to Kentucky 31 fescue, a fairly new grass that is getting widespread attention now. "Before we put in Kentucky 31 this field had some bad seep spots," said Mrs. Witsell. "The grass made such heavy sod my husband drove a combine out over it the day after a severe flooding. It stayed green all winter" [Continued on Page 5]



HERE MR. DAVIS explains how he built forms used in making laminated rafters for his new barn.

- Last Minute Wheat Ruling Page 6
- Their Futures Are Bright Page 16
- May Save Alfalfa Seed Page 26

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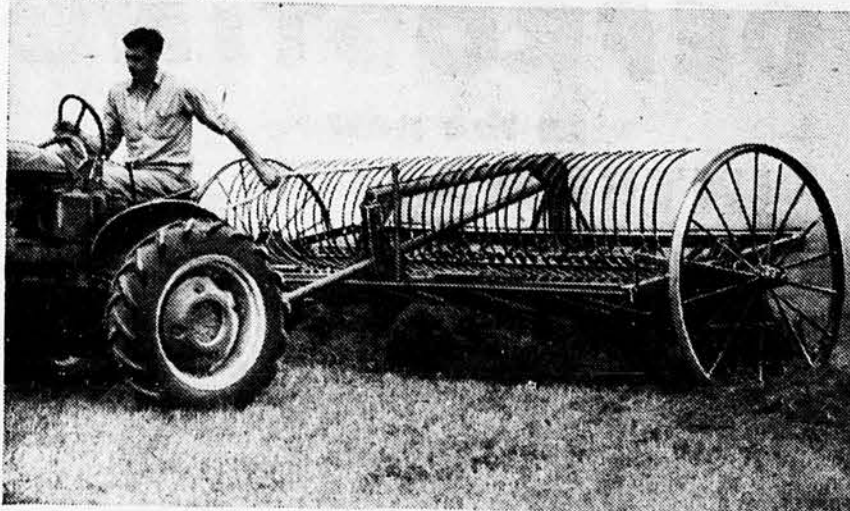
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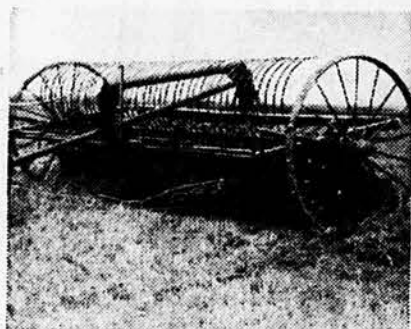
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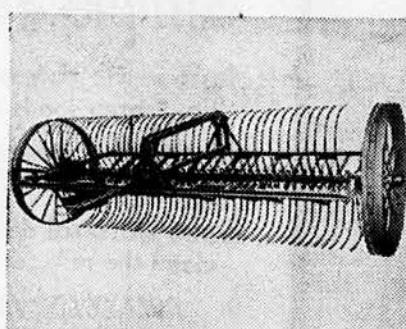
TWO SETS OF TINES FOR SMOOTH—
CLEAN—HIGH-SPEED RAKING



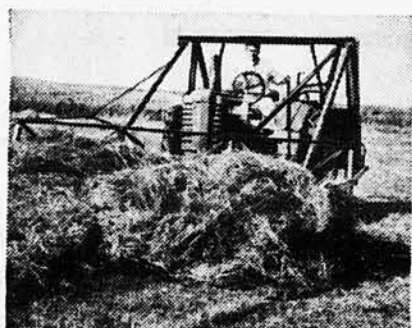
NEAT, EVEN WINDROWS or bunches are a cinch with the Farmhand Double-Action Rake. A light pull trips the raking tines. They swing up and stay up . . . release the windrow swiftly—cleanly—with no dragging or tangling of the hay. At the same instant, the second set of tines swoops over and down in a lightning-fast "cartwheel" motion that sets the points clear of the windrow—but leaves no unraked tail.



MAKE EVEN-WIDTH WINDROWS. The second set of tines resets for raking automatically at a uniform distance past dumping point. Fenders, flag guards, extra strippers prevent wrapping—control lightest hay. Tongue adjusts to keep tines at proper angle with any height hitch.



BROAD 8" WHEELS—(optional) give the Farmhand Dump Rake stability, insure clean raking on rough and uneven ground and provide flotation on soft ground. Exclusive reinforcing torque tube gives "springy" strength to the frame without excessive weight.



BUCK WINDROWS at 15 miles an hour! Clear up to 50 acres per day with Farmhand Hi-Lift Loader—a perfect team-mate for the Farmhand High-Speed Rake. Full-width Hay Basket carries half-ton loads . . . "floating" tooth action smooths high-speed operation.



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"Think Anthrax Is Whipped," Say Public Officials

ANTHRAX DEALT a severe blow to Kansas livestock interests in the last few weeks but, "We think we have it whipped now," say public officials.

The outbreak first occurred in the Cambridge area, in Cowley county, and later broke out in the 4-county area of Franklin, Douglas, Miami and Johnson. From best figures available in the office of Glenn Pickett, state livestock sanitary commissioner, Topeka, 28 farms in Cowley county, 178 farms in the 4-H county area, one in Chase and one in Sedgwick were reported to have anthrax in beef or dairy cattle or sheep. Largest single farmer loss was 24 head of beef cattle to one farmer in Cowley county.

Representatives of the livestock sanitary commissioner's office visited every farm on which anthrax was reported. Written quarantines were posted on every farm where sick animals were found, and all animals vaccinated against the disease were quarantined by proclamation.

This Livestock Was Lost

A total of 71 head of cattle died in the Cowley county area and 100 head in the 4-county area, according to latest figures available. Fifty-eight head of sheep are known to have died, with one farmer losing more than 20 head.

Heavily hit was the large milk-producing area in Franklin, Douglas, Johnson and Miami counties. At one time 140 milk-producing farms were under quarantine and all milk from herds on those farms had to be destroyed. "Value of milk destroyed was greater than value of dairy animals dying with the disease," reports Evan Wright, director of the food and drug division of the State Board of Health.

All milk and milk products from the 140 farms were embargoed at one time, affecting milk supplies at Topeka, Lawrence and both Kansas Citys. By June 11, the embargo had been lifted from about 100 of the 140 farms. "Actually," says Mr. Wright, "there is no evidence that anthrax can be transmitted to man thru milk from diseased animals, but we couldn't afford to take a chance."

Merchants, especially at Ottawa, in Franklin county, reported consumers were afraid to buy either milk or meat during height of the scare, and sales fell off to near zero. Rumors and misinformation circulating over the state caused a lot of trouble for officials, they report, and farmers alike, before the epizootic was brought under control.

Public Was Protected

Mr. Wright was enthusiastic in his praise of dairy farmers and the dairy industry for their reaction during the scare. "We had almost 100 per cent wholehearted co-operation from dairy farmers in our efforts to protect the public," he reports, "and we had equally fine support from the milk processing companies in the area. One company even sent its fieldmen out with us to call on farms having the disease. This greatly speeded our efforts."

At one point during the outbreak farmers in Franklin county urged that those having heavy losses be given Federal disaster loans. Some had been victims of the 1951 flood and also were caught by the anthrax outbreak. Federal

officials ruled, however that under present interpretations, livestock owners could not qualify for disaster loans.

Cause of the outbreak is believed by officials to be due to vaccination with bacterin, altho Glenn Pickett, livestock sanitary commissioner, says time enough has not elapsed to prove anything by laboratory tests at Manhattan or in Washington. Most of the cattle became ill about 28 days after being vaccinated with bacterin, and cattle not vaccinated have recently come ill with the disease, too.

A majority of cattle getting the disease have responded to treatment; the outbreak is definitely on the wane at this time.

Hereford Association Chooses New Secretary



Tom Sullivan

Newly-appointed secretary-manager of the Kansas Hereford Association Tom Sullivan, Hiawatha. He succeeded Gene Watson, Hutchinson, who recently resigned to devote full time to his livestock auction business.

Mr. Sullivan is a native Kansan reared on Blue Grass Ranch near Waverly, Coffey county. After 5 years of army service in World War II he completed his college work at Kansas State College, majoring in animal husbandry. He became a fieldman for the United Duroc Record Association, recently has been engaged in farming near Hiawatha. He also has been an instructor for the Veteran's Administration in the farm training program. The Sullivan family will make their home in Hutchinson, and the Kansas Hereford Association office will be maintained on the State Fairgrounds there.

KANSAS FARMER

Continuing Mail & Breese

ARTHUR CAPPER...Publisher (1893-1951)

121-123 West 8th St.

Topeka, Kansas

Vol. 89, No. 12

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Published the first and third Saturdays each month at Eighth and Jackson streets, Topeka, Kan., U. S. A. Entered as second class matter at the post office, Topeka, Kan., U. S. A., under Act of Congress of March 3, 1879.

Three years, \$1; one year, 50 cents. Copy 5

Septic Tank System

Improve farm health conditions. If you are a home owner living in unsewered areas and desire convenience of a modern bathroom, etc., write us for a copy of "The Septic Tank System for Rural Sewage Disposal." No charge. Address Farm Service Editor, Kansas Farmer, Topeka.

What Others Are Doing

(Continued from Page 1)

and cattle seemed to like it." Mrs. Wit-
l explained the field produced 100
pounds of seed an acre the first year,
and most of this will be used to seed
more acreage on the farm. No ferti-
lizer has been used on the grass yet
and fertilizing is being planned.

Clarence A. Hollingsworth, county
agent, told tour visitors Kentucky 31
does have a place in Southeast
Kansas agriculture, but that in most
cases it does not offer as good forage
as brome grass. "Folks often are too
eager to try new things they hear
about without first learning whether
they fit their farming program," ex-
plained Mr. Hollingsworth.

Eighty acres of second-year clover
were inspected at the Earl Ellege farm.
This is one of the larger fields of red
clover in the county. "Much more red
clover could be used profitably in ro-
tations in this area," said Mr. Hollings-
worth.

Interested in New Barn

At the W. E. Davis farm, visitors
showed a keen interest in a large
round-top barn recently completed.
This barn had laminated wood rafters
made of native lumber. Mr. Davis ex-
plained material costs for this 48- by
60-foot barn were only \$1,720 due to
use of native lumber.

A field of sericea lespedeza on the
Davis farm also was explained. Mr.
Davis said: "I find sericea lespedeza in
grass mixture does very well on my
poorest land that wouldn't grow any-
thing else. Last year I got 3 tons of hay
an acre and sold some of it for \$32.50
a ton. It also yields a good seed crop—
you can get it. The 'if' is that
seed shatters badly. Last year the first
afternoon we harvested seed we got
1,000 pounds an acre. The next day,
after a strong wind had sprung up,
seed dropped to 300 pounds an acre."

A large pasture sprayed with 2,4-D
by airplane a year earlier was ex-
amined on the John Goodbody farm. It
had been sprayed with 1 pound of 2,4-D
acid an acre used in fuel oil and applied
by airplane at the rate of 3 gallons an
acre. The kill appeared to be about 75
per cent. The contractor explained the
spray would have done better had it
been a mixture of 2,4-D and 2,4,5-T as
the 2,4-D was not effective on some
species of brush.

Big Job of Spraying

Ralph Hutcherson, Bourbon county
weed supervisor, told us farmers in the
county sprayed 3,000 acres of brush
during 1951, mostly by plane, and got
80 to 85 per cent kill. Where pastures
were sprayed twice over a 2-year pe-
riod the kill was up to 95 percent. "Most
pastures in this county need the mix-
ture of 2,4-D and 2,4,5-T to be effec-
tive," he said.

Johnson grass is becoming a pest in
Bourbon county and efforts to eradi-
cate it were studied at one stop. Crop
rotations, using clean seed, and seeing
that machinery is cleaned before being
taken onto any field all help. "Con-
siderable Johnson grass is being spread
to upland fields by uncleaned corn pick-
ers and other farm machinery first
used on bottom-land fields," he said.

Established grass waterways were
inspected on the Charley McKee farm.
This is an important practice that has
to be done before terraces are built if
the terraces are to work properly, it
was said.

Other highlights of the tour included
looking over established seedings of
brome and alfalfa, alfalfa and orchard
grass, alfalfa and Kentucky 31, alfalfa
and crested wheat grass, checking
wheat variety test plots, looking at
ladino clover and studying effect of
ammonium sulfate on wheat. At the
Arthur Brown farm, visitors also looked
at the good Hereford and Angus cattle.

Growing popularity of these tours
was indicated by the fact a large group
of farmers went on the tour despite
ideal weather for field work.

Cultivating Corn Is *Heavy Duty* Work!



Heavy Duty Work Calls For Phillips 66 Heavy Duty Premium Motor Oil. Cultivating corn runs into long hours of work—hard on a tractor's engine. It's one of the many jobs a tractor is called on to do. Rings, pistons and bearings take a beating unless you take proper precautions.

Phillips 66 Heavy Duty Premium Motor Oil is made to lubricate and protect engines operating under extreme conditions. It helps keep your tractor out of the shop and on the job by guarding against engine deposits and excessive wear. Get Phillips 66 Heavy Duty Premium Motor Oil from your Phillips 66 Dealer or Tank Truck Driver.

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LOW OIL CONSUMPTION: Phillips 66 Heavy Duty Premium Motor Oil resists decomposition—keeps oil control rings free. Fewer make-up quarts are needed over long hours of operation.

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WEAR PREVENTION: It reduces corrosive wear in your engine—guards piston rings and cylinder walls.

FOR CARS, TOO! Get Phillips 66 Heavy Duty Premium Motor Oil for that extra measure of protection you want for your car.

Get New, Improved *"Lubri-tection"*

How Much Will You Get For Your Wheat Crop?

By DICK MA

Last-minute ruling helps grain industry. Federal Pure Food & Drug plan for weevil-infested wheat "sale for livestock feed only" postponed until July, 1953. Wheat can be kept clean in farm bins.

THE GRAIN industry—from terminal elevators to farmer—has been "saved by the bell." The Federal Pure Food and Drug Administration was all set to start cracking down this year on weevil-infested wheat. Now the "seizure and sale for animal feed only," which was to have gone into effect by November 1, 1952, has been postponed until July 1, 1953.

Everyone, farmer and all, will be given a year to clean up the storage sanitation problem and learn how to take care of wheat to meet the new federal standards for sanitation.

If you want to know what it would have meant had the new regulation gone into effect this year, here is the story:

All indications point to the second largest wheat crop in Kansas history. But, commercial storage will be able to take care of only 50 to 55 per cent of the crop during and immediately following harvest. Already there is talk about a shortage in wheat cars on railroads, which will result in delays in moving the new crop out of Kansas.

This means you probably will have to take care of 45 to 50 per cent of the wheat crop on the farm for from 2 months to a year. "So what?" you may ask.

That's an important question, because how you take care of wheat left on the farm will be the key—starting July, 1953—to whether your wheat can be sold as food, or whether it must be sold as livestock feed only—at a dockage to you of 75 cents to \$1 a bushel.

Here's why. The Federal Pure Food & Drug Administration is all set to go in 1953 with a new regulation that any wheat having 3 weevil emergence holes in a 100-gram sample (about one-tenth of a quart) can be declared unfit for human consumption. A new, quick test to detect internal wheat infestation has been discovered and is ready for use.

Food and Drug pressure, of course, will be

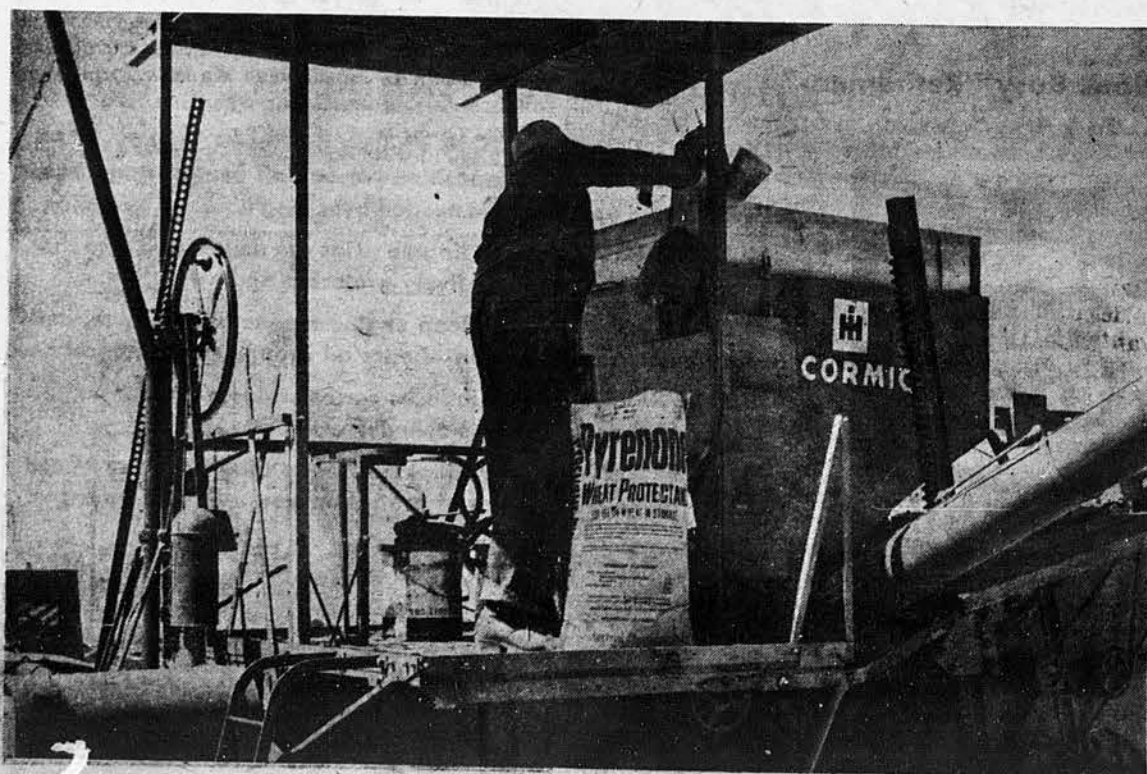


ABOVE: New quick method of checking weevil infestation of wheat kernels has been discovered by Albert C. Apt, left, showing it to H. H. Wadsworth and Garth Spiller. All are entomologists with U. S. Department of Agriculture in Manhattan laboratory. With Apt test, a 100-gram sample of wheat is put in pan with solution. Infested kernels will float and weevil emergence holes can be seen with naked eye.

on elevators. "The grain industry is 50 years behind in sanitation," charges Samuel Alfend, a Kansas City representative of the Pure Food & Drug Administration. "We are out to clean up the industry with a 2-phase program," he says. "First, we will inspect elevators and recommend improvements by which they can get and maintain sanitation. Second phase will be to inspect carload shipments and trace them back to point of origin." First phase of this program will go ahead this summer, fall and winter, while phase No. 2 will be postponed until next July.

Walter Scott, secretary of the Kansas City board of trade, says: "The new Food and Drug program, when enforced, can cost country elevators as much as \$2,000 for each car of wheat seized. A recent check made in Kansas City over a one-week period indicates 65 per cent of wheat coming in following long storage at country points might be condemned under the new regulations.

"This means," Mr. [Continued on Page 26]



ABOVE: Examining wheat treated with protectant when stored last year is W. Drier, Harvey county. Only one insect, a cadelle, could be found in samples; in untreated wheat nearby there were 293 insects in samples.

AT LEFT: You now can protect wheat from weevil infestation by adding a special wheat protectant at combine, in truck bed, or when elevating into bin. Cost is about 3 cents a bushel.

Kansas Farmer

News and Comment

Wheat Ruling Postponed

KANSAS WHEAT will be docked severely, we told you in the June 7 issue of *Kansas Farmer*, unless it is protected in bins from damage by insects, birds and rodents. A ruling from the Food and Drug Administration states such damage to wheat in storage must be eliminated if it is to sell for human food.

That new ruling was to go into effect this year on the 1952 wheat crop, starting November 1. However, after hearing the problems involved from wheat growers and associations representing them, most of the order is set aside until July 1, 1953. Rodent-contaminated wheat, however, will not be tolerated.

You can be sure of this. Wheat will be closely checked this year for rodent damage. Next year, full force of the ruling will be felt. But it is a year in which to get ready, which means screening out birds and rodents, cleaning and spraying against insects. For a complete story on the ruling and what it means, please turn to page 6 in this issue of *Kansas Farmer*.

"Indian" Wheats Most Popular

MOST POPULAR wheat varieties for 1952 harvest in Kansas are Pawnee, Comanche and Wichita, same 3 that have been of major importance and popularity for the last 5 years. The 3 were grown on 71 per cent of our wheat acreage, according to Kansas State Board of Agriculture.

Pawnee was planted on nearly 38 per cent of the acreage seeded for 1952 harvest, Comanche on 17 per cent, Wichita on 17 per cent, Red Chief on 7 per cent, Blue Jacket 6 per cent, Triumph 5 per cent. Kiowa, a new variety of wheat developed at Kansas State College, represented nearly 1 per cent of the acreage.

The college is bound to find even better wheats than these in the future. Scientists there never are satisfied with the current best. They always are determined to develop something better. Both in quality and quantity.

Shining Example

OUT-OF-STATE SPEAKERS at a recent meeting of federal agricultural agencies in Kansas were strong in their praise of the full co-operation enjoyed among agencies here.

Speaker after speaker said: "Kansas is shown in Washington as a bright and shining example of how Federal agencies should and can work together for the common benefit of farmers. You people of Kansas are fortunate in having men at the head of these agencies who

are able to put aside petty differences and work together wholeheartedly."

It is encouraging to attend a meeting of Kansas agricultural agencies and see this harmony at work at a time when such harmony is needed everywhere if we are to lick the tough farm problems ahead.

The President Was Wrong

OUR NATIONAL affairs editor, writing in the May 17, 1952, issue of *Kansas Farmer*, stated if Government can take over steel, it can take your land and cattle. Further he said, President Truman's taking over the steel industry is not the first Government seizure of private property in the last few years. But it probably is the most lawless, and has dramatized the process of substituting personal rule for government by law in the U. S.

As you know, the steel case went to the Supreme Court for decision. The question was whether the President has the power to take over private property for any reason. The 9 justices of the Supreme Court voted 6 to 3 against Presidential seizure. The majority decision said President Truman's seizure of the steel industry last April 8 was a violation of the U. S. Constitution.

In effect that decision also said the President, whoever he may be now or in the future, cannot take your land and your cattle under his present powers. It spoke plainly of the chief executive of the most powerful country in the world, telling him he has no powers whatever except those set out in the Constitution or voted by acts of Congress. This still is a country of the people, by the people, for the people—not a country of one-man rule!

Are Better Teachers

TEACHERS of 40 Kansas cities are attending 1952 KABIE (Kansas-Agriculture-Business-Industry-Education) Tour, June 16 to 26. About 70 teachers boarded 2 special busses at Wichita for the 2,100-mile trip. Many spots of interest in the state are visited by the teachers, who indicated interest in learning more about Kansas in the 4 phases mentioned. They are better teachers because they have seen more of Kansas firsthand.

Plans Busy "Retirement"

ALTHO HE officially retires from his present duties as dean of agriculture with Kansas State College, July 1, R. I. Throckmorton has plans for a busy life. First, there will be fishing, his favorite hobby and sport. This fall he plans to teach a sophomore class in soils at Kansas State College. He will continue to write farm articles. The U. S. Department of Agriculture wants him to stay on as consultant in reference to High Plains agriculture. He will continue to be an active member of many committees, study soil problems, give speeches.

Kansas Farmer for February 16, brought you a complete story of Dean Throckmorton's retirement as dean of Agriculture and director of the Kansas Agricultural Experiment Station.

Hundreds of co-workers and friends attended a recent reception at Kansas State College given in honor of Dean Throckmorton and Mrs. Throckmorton. They received a gift of silver, and announcement was made of plans to hang Dean Throckmorton's portrait in the new Throckmorton Library in the new addition for East and West Waters Hall.

Recently announcement was made Dean



"The baby porcupine bumped into the cactus at night and asked: 'Is that you, Mama?'"

"A hypocrite is like a pin—points one way and heads the other."

"My friend laughed when I spoke to the waiter in French. But the laugh was on him. I told the waiter to give him the check!"

"There are three kinds of mules—the old gray, the white, and the kind your wife married."

"Works both ways: 'Woman without her man is helpless. Woman, without her, man is helpless.'"

Sign on a cafe: "We serve the best dressed chickens in town."

"Think of it! There must be at least 50 million laws, but nobody has ever improved on the Ten Commandments!"

"The average man now lives 30 years longer than he did a century ago. He has to in order to get his taxes paid."

Throckmorton was being considered as head of a soon-to-be-organized Kansas State Development Fund Program. Whatever the job, the results will be tops.

It has been pointed out that Dean Throckmorton's down-to-earth agricultural job the last 40 years has been of lasting benefit to Kansas. His efforts have brought about advances in agriculture that constantly are being translated into higher yields, reduced costs, less labor, better profits, and more satisfactory and satisfying farm living. Farm families have benefited, and will continue to, from results of his sincere efforts.

Flying Farmers Elect

NEWLY-ELECTED officers of Kansas Flying Farmers are Clarence Wilkens, Lorraine, president; L. V. Baccus, Minneapolis, vice-president; Mrs. Sidney Walton, Shields, 2nd vice-president, and Lawrence Stutter, Wichita, secretary-treasurer.

Chosen "Queen" at the annual convention at Hutchinson, June 6, was Mrs. Howard Elkins, Wakefield. About 300 Flying Farmers attended the 7th annual event. Quite a contrast to horse-and-buggy picnics!

Kansas can be proud of her active Flying Farmers. Visitors have studied our aerial farming activities. Farmers fly to agricultural events such as Northwest Kansas Implement and Tractor Show. Group vacations are taken; 2 trips to Mexico are already on record! National headquarters for Flying Farmers is at Wichita.



"My, what a nice little boy. You ARE a nice little boy, aren't you?"



"He won't get my vote . . . that's my girl he's kissing."

Another Great Bargain for Your Farm Home! 7⁸/₁₀ cu. ft. FRIGIDAIRE

AMAZING VALUE

Yes, this 7.8 cu. ft. brand-new 1952 Standard Frigidaire makes an amazing value for the farm home!

With its Meter-Miser Mechanism, simplest refrigerating machine ever built and so trustworthy that in millions of units manufactured not one has ever been known to wear out, it represents a long-life appliance that farm dwellers will like.

It has the roomy, porcelain, Frigidaire hydrator for fresh vegetables, roomy frozen food compartment, shelves in the door for fingertip convenience, special space for tall bottles, acid resisting Lifetime Porcelain interior—all of the quality features that farm folks favor. And with all of this convenience and quality, it is priced so low that it is virtually without competition at the selling price of \$199.75.

Perhaps you have an old refrigerator



\$199⁷⁵

tor that may give out in the coming hot weather or perhaps your REA Co-op or nearby utility has just brought electricity to your place... in any event, you'll want to see this model at your Frigidaire dealer's store (list below) right away!

SEE FRIGIDAIRE APPLIANCES AT ANY OF THESE QUALITY DEALERS

ABILENE Shockey & Landes	ELKHART Ellis Motor Service	LARNED A. A. Doerr Merc. Co.	PITTSBURG Rodkey's
ALMA Hasebank & LaMar	ELLIS O'Loughlin Motor Co.	LEBANON Lebanon Electric	PLAINVILLE Mosher Bros.
ALAMONT Holmes Hdw. Co.	ELLSWORTH Mills & Giddens Furn.	LEHIGH Burkholder Lbr. Co.	PRAIRIE VIEW Prinsen Bros. Hdw.
ANTHONY Wood Music Co.	EMPORIA Litke-Stephens Furn.	LENORA Edridge Electrical Co.	PRATT Link Electric
ARGONIA Horton Furniture Co.	ERIE Rogers' Hdw. & Furn.	LEON Losh Motor Co.	PRETTY PRAIRIE General Appliance Co.
ARKANSAS CITY Wright-Burton Hdw.	ESKRIDGE Willard Sales & Serv.	LEOTI Western Hdw. & Sup.	QUINTER Bretter Appl. Store
ARLINGTON Fay's Sundries & Appl.	EUREKA Burton's Furn. & Appl. Co.	LIBERAL Hettie Appl.	RILEY Meyer Mercantile
ARMA Bosnio Hdw. & Appl.	FALL RIVER Faber Impl. Co.	LINCOLN B. G. Hall	ROSE HILL Cox Grocery & Locker System
ASHLAND Grimes Appliance Co.	FLORENCE Roberts Machinery Co.	LINCOLNVILLE Burkholder Lbr. Co.	RUSSELL Delnes Bros.
ATTICA K. R. Anthony Furn.	FORT SCOTT Darling & Maguire Sales Co.	LINDSBURG Billings Refrigeration & Elec. Appl.	ST. FRANCIS Roel's Electric
AUGUSTA Coleman Gas Serv. Co.	FRANKFURT Lauer Electric Shop	LITTLE RIVER Hodgson Impl. & Hdw.	ST. JOHN A. J. Electric Service
AXTELL Roth's Lock & Ap. Co.	FREDONIA Holla Hardware Co.	LYONS Deardorf Furniture Co.	ST. MARVS Youngkamps Furn.
BAXTER SPRINGS Milo Chew Drug Co.	FURLEY Boyd Implement Co.	MACSVILLE Breitenbach Appl.	SALINA Goodhousekeepers Appl. Inc.
BELLE PLAIN Foster Refrig. & Appl.	GARDEN CITY May's	MADISON Schottler's, Inc.	SATANTA Decker's
BELLEVILLE Fitch & Barth, Inc.	GLASCO R. W. Cramer Hdw.	MANHATTAN Kapp Furniture Co.	SCANDIA Sanborn Lumber Co.
BELOIT Hiscote & Weir Appl.	GOODLAND D & G Electric Co.	MANKATO Beaman Motor Co.	SCOTT CITY Quarrier, Inc.
BENNINGTON Powell Service	GREAT BEND Mathers-Jaeger Appl.	MARYSVILLE Fred Burris	SEDAN Ding Bell Chevrolet
BENTON Moore Bros.	GREENLEAF Hogan & Sons	MEADE C. E. Worman Elec.	SHARON SPRINGS C. E. Koons & Son
BLUE RAPIDS Brake's Furn. Store	GREENSBURG Culp Home & Auto	MEDICINE LODGE Dickey Appl. Co.	SMITH CENTER Gripston's
BUCKLIN Day Hardware Co.	HALLSTEAD Nantele's Dept. Store	MENTOR Johnson's Hardware and Elevator	SPEARVILLE Heskamp Chev. Co.
BUEHLER Kim, Elliott & Gard	HANOVER Leutloff Appl. & Elec. Co.	MILLONVALE Phelps Furn. Store	STAFFORD Fencecock & Solce
BURDEN Lewis Chevrolet Co.	HARPER Jess Hamilton	MINNEAPOLIS Hornor Hardware	STELLING K-T Oil Station
BURNS Lyons Supply Co.	HAYS Hays Music Co.	MOLINE Boyer Gift & Appl. Co.	STOCKTON Quenzer Appl. Co.
BUSHTON Slerner's Service	HERINGTON Fred Lee & Sons	MORGANVILLE W. F. Tadlock	SUBLETTE Belt Sales Co.
CALDWELL Terwilliger Hardware	HERNDON J. G. Huttles & Son	MOUNDRIE Krehbiel Hdw. & Impl. Co., Inc.	SYLVAN GROVE F. A. Gatewood & Sons
CANEY Fendleton Chev. Co.	HILL CITY Nat & Bolze Hdw.	MOUNT HOPE Johnmeyer's	SYRACUSE Stewart Furniture
CAWKER CITY Riley-Rhoades Ap. Co.	HILLSBORO John Hiebert	MULVANEY The Electric Store	TIMKEN Timken Lumber Co.
CECILIA Williams Motor Co.	HOISINGTON Gelman Appl. Co.	NASHVILLE Stewart Motor Co.	TRIBUNE Western Hdw. & Motor Co.
CHANDLER Nash & Bolze Hdw.	HOLYROOD Westmacott Hdw. Co.	NATOMA Fehlman's Home Furn.	TURON Turon Electrical Sup.
CHAPMAN Sanborn Lumber Co.	HOWARD Wuthnow Furn. Co.	NEODESHA Kimball Electric Shop	VALLEY CENTER Central Supply
CHENEY Cheney Farm Store	HOXIE Virgil Munsinger	NESS CITY Schroyer's, Inc.	WAKEFELD Sanborn Lbr. Co., Inc.
CHERRYVALE Clark's Maytag Co.	HUTCHINSON H & K Appliance	NEWTON The Appliance Mart	WAMEGO J. E. Stewart & Sons
CHEYERDA Blankenship Hardware	INDEPENDENCE Graber Furniture Co.	NEWTON Newman Appl. Center	WASHINGTON Vowel Furniture Co.
CLAFIN J. W. Miller & Co.	IOA Schell's Appl. Store	NORTH Horney's, Appl.	WATERVILLE Hensley Hdw. & Furn.
CLAY CENTER Marshall's, Inc.	JETMORE Lindas Hardware, Inc.	NORWICH H. S. Eshnaur & Sons	WELLINGTON Nichols Electric Co.
CLINTON Beckotte-Esslinger	JEWELL Jewell Lumber Co.	OAKLEY C. D. Clark & Sons, Inc.	WESTMORLAND Smith Cash Hdw.
CLYDE A. Seifert Jewelry	JOHNSON Stewart Furniture Co.	OBELIN Anderson & Son Hdw. & Impl.	WICHITA The Appl. Center, Inc.
COFFEYVILLE Southwestern Sales Co.	JUNCTION CITY Waters Appl. Store	ONAGA Tessendorf Furn. Co.	WILMORE Geo. Innes Co.
COLBY Mackay Appliance Co.	KANSAS CITY Simmons-Olliff	OSBORNE Quenzer Appl. Co.	WILSON Vowel Furniture Co.
COLDWATER Rural Gas & Elec. Co., Inc.	KINGMAN Kingman Radio Shop	OSWEGO Williamson Stores, Inc.	WINDFIELD Bowersock Mills & Power Co.
COLUMBUS Brown Refrigeration Service	KINSLEY Maytag Appliance Co.	OXFORD Abildgaard Hdw. Co.	WILSON Weber Hardware
CONCORDIA Culbertson Elec. Co.	KIOWA Fisher-Wood Hdw.	PARSONS Ellis Radio & Appl. Co.	WINFIELD Winfield Electric Co.
COTTONWOOD FALLS Hamm Electric Co.	LACROSSE Pittman & Pittman	PEABODY Baker Furn. Store	YATES CENTER J. C. Schnell
COUNCIL GROVE Eumsey & White	LAKIN Hart & Co.	PHILLIPSBURG Newell's Appl. Store	
DIGHTON Mull Electric Service			
DODGE CITY Newkirk's			
EL DORADO Home Appliances, Inc.			

Now That You Have Electricity

USUALLY, IN WARM WEATHER, we try to talk about ways of using electricity to fit the temperature. However, just the fact of contrast prompts us to call attention to these first 2 items that piqued our interest more than just a little.

First one is an account from the West Coast that told of snow so deep during last winter wires strung on 60-foot poles were buried. Yes sir, that condition occurred near Donner Summit along the Nevada-California border, and workmen are still talking about the experience of being down in a 7½-foot trench splicing wires that ordinarily are 40 to 60 feet in the air.

The other cold-weather item comes from Milwaukee (but it is used in many other places) and can be of timely interest right now, since preparations are in order during summer. In this instance, the Bucyrus-Erie Company's big plant suffered no time loss due to snow piling on the runways between the buildings. The reason: electric heating cables were installed in the concrete and were able to handle the snow even in sub-zero temperatures. We can suggest such an idea might be worth considering right now for that walk to the milkhouse.

But back to summer, what would be more efficient than to install various electric helps in the home? We can suggest anything which would make cooking and its related duties a more comfortable task, would enable the Mrs. to spend some time with some of the pressing chores. Electric dishwashers and waste disposers take over tiresome, unpleasant clean-up jobs. The two may be combined in a complete electric sink unit or may be purchased and installed separately. A separate dishwasher may have its counter top or be installed under a counter. A newcomer on the market is a mobile dishwasher that can be rolled away when not in use.

Dishwashers are of varied design to fit your wishes. Some open at the top and are loaded from the top; one has

excessive dampness. We have seen the work—have carried a milk pail full of water away after placing it empty in the machine less than a day before.

Here is a guide that might help determine whether you have adequate wiring in your home. We are taking from the amount of electric wiring going into some new 3-bedroom home that are being constructed in our neighborhood. In the first place, there are electric circuits leading from the box and provision is made for 3 more all of heavier-than-usual wire. In the kitchen there are 7 outlets, in the living room there are 4, and each bedroom has 3. There are other features worked into the system to enable members of the family to use all the lights and appliances they wish, when and where they need them, without bother and annoyance of fuses blowing. It pays to have adequate wiring.

Now don't rush right out and buy one, but an army surplus mine detector did stalwart farm duty not long ago when it was used to find some hardware in an ailing prize bull on the Collier ranch in Washington.

This is fan season, for sure, and the variety of designs is exceeded only by the number of uses which have been devised. Latest is a floor fan that doubles as a coffee table. It stands about 20 inches high and has a serving tray.

Remote-control wiring, which is means of operating switches thru low power circuits, is another versatile electric device. For instance, with RC you can press a switch beside the bed and start breakfast in the kitchen; press a switch in the kitchen and turn on the front porch light; press a switch by the telephone and turn off the radio; select the lights you wish to control by means of a 9-channel selector, press a switch and do the work without moving a step. The selector can be located in the house to control circuits in other buildings.

Room air-conditioners are workable. These cabinet designs that fit your window

COMING, JULY 5 . . .

Do men have to take a back seat when it comes to community activities? Before you answer yes or no, read the story in the July 5, 1952, *Kansas Farmer* on what farm women of Neosho county are doing in the way of community improvements. You'll be surprised.

dish racks which roll out on the door which opens like the door to an oven. Another has a drawer-type rack that pulls out for loading from above.

Water action, too, varies in different makes. Some have moving jets, some spray; and there are differences in the drying action. The variety is such you can choose what you like.

It may not be long before you will be able to cook a steaming hot dinner in one minute. A General Electric engineer said recently an electronic dispenser is nearing perfection, a device that would thaw and then heat a complete precooked frozen dinner in that time. High-frequency waves are the secret.

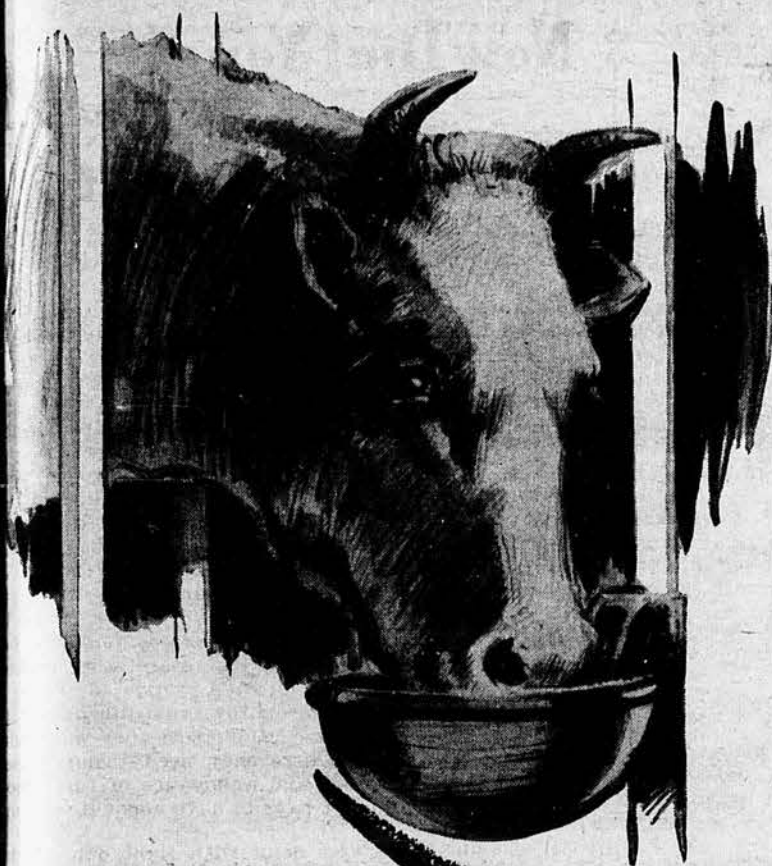
Do you have a damp toolhouse, workshop, basement? We have written before of electric home humidifiers, relatively new devices that squeeze up to 3 gallons of water from the air each day. The compact units act to help prevent molding and rotting, rusting of tools, swelling of doors and partitions and other nuisances that are results of

dow can effectively maintain a comfortable temperature during hottest days.

This is the time when vacations and travel come to mind. We suggest a home movie unit as a splendid purchase, now that you have electricity. With a good camera and projector, you can enjoy events of your travels in years to come and relive them with your friends.

Have you thought a fan might be brought into use as a drying agent for clothes, fabrics, waxed surfaces, painted or scrubbed areas? A bit of air circulation will help a lot in refreshing clothes that have been hanging in a closet, and will hurry the thawing of frozen foods.

Have you lubricated your electric fans and other revolving equipment this year? How about your electric razor, the furnace blower, drill, saw motor, or any of the equipment you have used heavily this spring or last winter? This is just a reminder but a little oil will prolong the life of this equipment indefinitely.



A Water System means more profits...

"My electric water system doesn't owe me a cent," says L. R. French, Reno county feeder.

"Water is just as important as feed. A thirsty steer can cost you money. That's why I keep my feedlot tank full. Also I use an automatic electric fountain heater in winter to insure against losses in weight."

"We Make Money Fast With Our Water System"

It's good farm business to let running water increase your profits.

Not only do you get more milk, more eggs, larger animals... you get better quality, better appearance.

Equally important, you save yourself hard work... get your chores done in hours less time.

These are some of the reasons why running water... in your home, barn and farmyard... is one of the best ways to increase your farm production, your farm profits... why a farm water system can pay for itself the first year.

WATER...WATER...EVERYWHERE

- Means . . .
- Milk production increases of 10% to 20%
 - Meat production increases of 10% to 20%
 - Egg production increases of 8% to 10%
 - Garden production increases up to 50%

The rural representative of your power company will gladly check your farm's water needs... will help you plan a water system that will increase your farm's production and profits. Why not call him today? There is no obligation on your part.



L. R. French, Pretty Prairie, Kansas



See one of our representatives or your local electric dealer. They have many plans and ideas that will be a great help to you in selecting these new modern appliances for the home or laborsaving items about the farm that pay for themselves in a short time.



ELECTRIC LIGHT AND POWER COMPANIES IN KANSAS

Central Kansas Power Company Kansas Gas and Electric Company Eastern Kansas Utilities, Inc.
Western Light & Telephone Company Kansas City Power & Light Company
The Kansas Power and Light Company



WHEN F. C. HECK built this house 6 years ago, he increased his LP-gas storage to 1,000 gallons so he would have plenty of cooking and heating fuel to last thru winter. The old tank, of 300 gallons, was moved to the new tenant house. Mr. Heck and a son operate the Heck Hereford Ranch in Jefferson county, Kansas.

LP-GAS Industry Urges

MORE FARM STORAGE

. . . To insure steady fuel supply, ease seasonal and spot shortages, balance winter-summer delivery demands and help hold down service costs

STORAGE is the big problem in LP-gas service. It always has been and will continue to be until a solution is found. Growing winter demand, which further outstrips summer consumption, complicates the problem still more. Production, transportation, distribution and delivery all have been organized into an effective service system. But not storage. It remains the bottleneck—a headache for everybody from refiner to user.

A committee of the industry studied the problem. They considered all possibilities and came up with this answer: "More Farm Storage."

"That's no dodge, no sidestep from responsibility. But it does toss the solution right at the consumer. Maybe that's where it belongs. He might work it to his advantage. Anyway the notion is not without logic. Let's see whether we can follow the reasoning behind the committee's proposal.

Anybody who burns wood or coal gets his supply in early. Stores the fuel against future need and forgets about it. That is exactly what the industry committee suggests to users of LP-gas. Order early delivery, store against future winter need and forget about it.

Of course, LP-gas can't be ricked up along the house wall or the yard fence or scooped into a bin. It requires a tank. But that necessity is offset by convenience. Solid fuels must be lugged in by the armload or hodful and dealt into the heater a little at a time. LP-gas, in contrast, feeds the flame automatically. There are no fires to build or tend.

Insurance against fuel shortage would be mighty comforting. It can be had. Insurance for home heating, cooking, water heating, refrigeration, tractor power and all the other production uses can be bought. The price is the right size tank.

That tank is the key to this storage problem, too. The industry committee does not specify how big it should be. But they do list the average capacity necessary for the 4 main home uses in different zones from the Mexican to the Canadian border. For the big middle belt across the country, including Missouri and Kansas, the average size ranges from 750 to 1,000 gallons. Northward the size increases, southward it decreases.

Any consumer's requirements are likely to vary up or down from the averages. Take your own case, for instance. What size tank do you need? You don't have to guess. Ask your dealer. He has a method for figuring the tank size required. It is based on consumption for the whole year. In a few minutes he can calculate the right storage capacity to fit the jobs you have for LP-gas to do. Not too big. Not too little.

With such an installation the dealer can keep your fuel supply always at a safe level. In the chart with this article the National LP-Gas Information Service shows how he can do this with monthly deliveries of equal amounts. This installation is based on a consumer who requires 2,886 gallons in a year. Deliveries of 240 gallons a month will supply the total. Note that summer consumption, April thru August, is 600 gallons, whereas winter consumption, September thru March, is 2,286 gallons. The dealer takes advantage of the slack summer demand to build up storage for winter use.

But monthly deliveries are not always practical. In this case, where the consumer has provided an adequate tank, number of deliveries can be reduced from 12 to a minimum of 2½ or 3, with a corresponding increase in size of tank-truck load. That gives [Continued on Page 2]



William Lally is a farmer's farmer. He owns and operates 114 acres, milks from 16 to 20 cows, sells Grade A milk, and buys and feeds about 110 feeder pigs each year. He farms for profit, and one of his best profit makers is his poultry. He wants his pullets to be mature, well-developed birds when he houses them. If not, he's courting trouble. Mighty interesting co-operators are Mrs. Lally, and daughter, Alice, 4.

William Lally says—

"We Push Pullets Fast to Get Peak Fall Egg Prices—With MoorMan's"

"We've fed MoorMan's poultry concentrates four years," says William Lally, Dane County, Wisconsin, "and know we can depend on their good results to pay us big dividends. We can point pullets for high production in 6 to 6½ months and get them there right on schedule.

"This year we'll house pullets before Sept. 1, so they'll produce at 60-65% 2 or 3 weeks later. We started our chicks on March 11 on our own corn and MoorMan's Chick Mintrate to give them a fast start. At 10-12 weeks we'll switch to MoorMan's Poultry Mintrate 40, and keep them growing and developing fast.

"Last year our pullets were laying at 60 to 65% in 6 months. And even though we didn't start our chicks until April 18 we still got in on part of the 69 and 70-cent egg market because we pushed them so fast. Their total feed costs, figuring corn at \$1.65 a bushel, was only \$1.55 for housing each of our 279 pullets. We got \$1.35 each for the hens we sold to make room for the pullets.

"Profits from our hatching eggs average even bigger. I really think the vitamins, minerals and proteins in Poultry Mintrate give extra-good hatchability. Our hatchery pays a 20-cent premium, and we're among the first to sell them eggs in January and the last to be cut off. Last year our hatchability was excellent and production averaged between 70 and 75%."

You, too, like William Lally, and thousands of other farmers, can benefit from high fall egg prices—if you keep your pullets growing fast now. Don't let them loaf during the growing period. Your total feed cost will be low, because your home-grown feeds contain what it takes to develop pullets extra fast.

Here's why: The powerful protein-mineral-vitamin balance in MoorMan's Poultry Mintrate 40 or Chick Mintrate helps unlock the great growth and quick maturing power of your own grain and range. Ask your MoorMan Man to explain the low-cost MoorMan feeding plan. If no MoorMan Man calls, write Moorman Mfg. Co., Dept. J2-6, Quincy, Illinois.

MoorMan's
(Since 1885)

MAKERS OF PROTEIN AND MINERAL CONCENTRATES FARMERS NEED, BUT CANNOT RAISE OR PROCESS ON THE FARM

**LUBRIPLATE
COOLS
THE HOTTEST
BEARING ON MY
FARM!**



An Ohio Farmer Tells Us . . . he considers the Pitman bearing on his power mower to be the hottest bearing on the farm. He says that he can operate all day with but one application of LUBRIPLATE Lubricant No. 130-AA without the Pitman heating up. He has cut as much as 30 acres of hay on one lubricating job of LUBRIPLATE whereas it was necessary to grease every half hour with conventional grease.

He further tells us that for other farm machinery LUBRIPLATE Lubricants are a big money saver in the grease itself. One pump with the hand gun through a zerk fitting daily and the creamy white LUBRIPLATE comes out on both sides of the bearings. He estimates he has saved three quarters of the volume in grease since using LUBRIPLATE. This is in addition to saving in time from less frequent lubrication and fewer stops for repairs, and parts replacements.

LUBRIPLATE Lubricants are not new. They have been used by industry for years to do lubricating jobs where conventional oils and greases have failed. They are dual purpose lubricants . . . they provide superior lubrication while machinery is in use and protect it against rust during the seasons it is laid-up. Start today with LUBRIPLATE No. 130-AA.



If your dealer does not regularly stock LUBRIPLATE Lubricants, phone, wire or write to the following for information:

INTER-STATE OIL CO.
2005 Armour Road
North Kansas City, Missouri

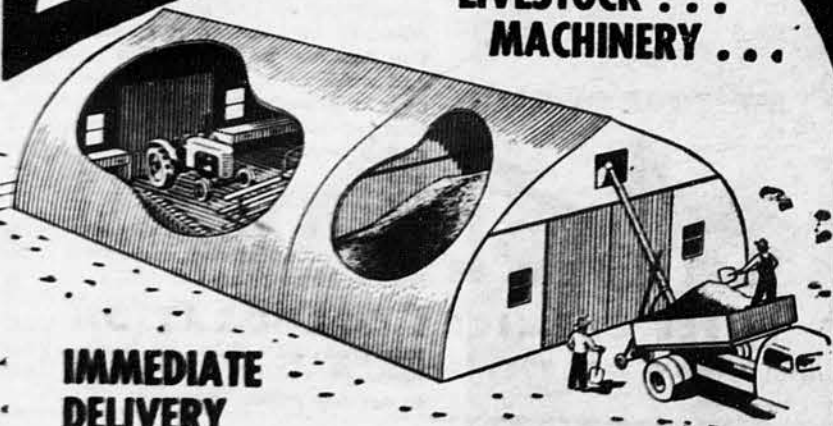
Write for a FREE copy of the booklet . . .

"LUBRIPLATE FOR FARM MACHINERY"

THE MODERN FARM LUBRICANT

ECONOMICAL, DUAL-PURPOSE

**FOR GRAIN . . .
LIVESTOCK . . .
MACHINERY . . .**



**IMMEDIATE
DELIVERY**

Big Chief is your answer to emergency grain storage plus being ideal for livestock, machinery, workshop, etc. . . . Available in 20 to 60 ft. widths—4 ft. multiple lengths. Wider span and more head room. No tie-in braces necessary for grain storage. High strength, reinforced steel rod truss framework with exclusive rod wind bracing. Can be erected by inexperienced labor in a few days with help of factory supervisor. Low cost. Standard sizes.

WRITE—WIRE—PHONE



BIG CHIEF MFG. CO., INC.
BOX 473 HUTCHINSON, KANS.

Please send me, without obligation, illustrated literature about dual-purpose BIG CHIEF BUILDINGS.

NAME _____

ADDRESS _____

TOWN _____

STATE _____

Thoughts TO LIVE BY

"Contentment"

"CONTENTED COWS" have become distinguished. "Bovine lethargy" has become desirable. Gone is our spirit of adventure. In its place, we have substituted a craving for contentment.

It has been falsely assumed that possessions or position would bring contentment. But money didn't bring it to Richard Whitney nor Ivar Kreuger. Neither did position bring it to Carole Landis nor Edward VIII.

But in the fourth chapter of Philipians, a prisoner speaks of his contentment. Etymologically, to be content means to hold together. Paul didn't fly apart under pressure. He knew how to hold together despite the circumstances and in every situation. When he was brutally scourged, he did not become hysterical. When he was shipwrecked on a stormy sea, he did not give way to fear. In prosperity or poverty, he knew how to be content, to hold together.

In this same passage, 3 suggestions appear which make for contentment. First, accentuate the positive. "Finally, brethren, whatsoever things are true, whatsoever things are honest, whatsoever things are just, whatsoever things are lovely, whatsoever things are of good report, if there be any virtue, and if there be any praise, think on these things." Sometimes the emphasis needs to be on think; more often on these

things. It has been said, "So thought and reap an act; sow an act and reap a habit; sow a habit and reap a character; sow a character and reap a destiny." The destiny determined by the thought. He who thinks good thoughts has chosen good destination.

Second, have confidence in God's power. "I can do all things through Christ which strengthens me." This has been uttered at the beginning of his career, it would have been brushed aside as an idle boast. This was the testimony of an honest man in his middle sixties. Remembering how he brought health to a demented slave girl and newness of life to the hard jailor, the people of Philippi took his words at their value. He was confident he could do anything God wanted him to do, he had learned God would provide power far greater than his feeble strength.

Third, the resources for daily life are adequate and available. "My God shall supply all your need according to his riches in glory through Christ Jesus." Many people have sung "God will take care of you." Paul knew it to be a fact. He had anxiety about making himself a cure. He knew God would meet his needs.

Paul's contentment obviously came, not from external things but from within. Such contentment, and only this kind, is available for you and me.

—Larry Schwartz

Our Seven 4-H World Travelers Get Started on Their IFYE Trips

Seven Kansas 4-H Club members are off to Europe for the summer in the (IFYE) International Farm Youth Exchange program. This time Kansas Farmer has asked Jack Grier, of Pratt, to write about his experiences in Norway, and Daniel Petracek, Oberlin, to write letters for all of us to read in Kansas Farmer from Greece. In other years you have read letters from Kansas 4-H'ers visiting in Scotland, England, France, Sweden, Belgium, Luxembourg, Germany, Switzerland, Holland, Wales and Finland. This time we add two more countries. And here are the "getting started" letters from Jack Grier and Daniel Petracek. Watch for others right along in your Kansas Farmer.—R. H. G.

DEAR MR. GILKESON: Tuesday morning, June 3, five of us Kansas youths left for Washington, D. C., for an orientation period of 4 days. From there we went to New York for 2 days and sailed from there June 10. Two other youths leave the U. S. June 25. This makes 7 boys and girls going to foreign countries this year from Kansas.

Names of the 7, where they are from, and countries they visit are: Nadine Entrikin, Abilene, Finland; Joan Engle, Abilene, Denmark; Irlene Rawlings, Eureka, Scotland; Joan Shaver, Goodland, Ireland; Daniel Petracek, Oberlin, Greece; Marion Tongish, Herndon, Austria; and myself, Jack Grier, Pratt, Norway.

From the United States there are 90 delegates going to 23 different countries. Four delegates go to Norway



Jack Grier

this year. Sarah Adkins, Vienna, Ga.; Marjorie Hattan, Moscow, Idaho; Robert Miller, Jamesville, Wisc., and myself.

The International Farm Youth Exchange Project is a program for promoting international understanding and developing youth. To achieve these objectives, selected farm young people are exchanged between the United States and co-operating countries for 4 to 6 months to observe and experience family and community life. Rural people in the U. S. and other nations share in these experiences and observe

ons thru reports of the partic-
the United States the project is
need thru and supervised by the
onal 4-H Club Foundation. It is
sored and conducted by the Ex-
tion Service of the U. S. Depart-
t of Agriculture and the state
d-Grant colleges and universities
the following other groups or
ncies co-operating:
Office of Foreign Agriculture Rela-
s, U. S. Department of Agricul-

U. S. Department of State.
Council on Student Travel, New
k, N. Y.
Institute of International Education,
York, N. Y.

umerous private foundations, farm
anizations, industrial concerns,
s and individuals who contributed
is on county, state and national
s. *Kansas Farmer* had a part in
ing these expenses.

live on a 750-acre farm on which
stock is an important enterprise. I
ied Vocational Agriculture in high
ool and the past school year was a
omore at Kansas State College,
oring in general agriculture. Dur-
9 years of 4-H Club work I have
eved several honors in crops pro-

duction and grain marketing. I am
glad and well pleased that you have
selected me to write letters to *Kansas
Farmer* about Norway this summer
and am looking forward to it.

My address will be, Jack Grier, in
care of Dr. Einar Jensen, Agriculture
Attache, American Embassy, Oslo,
Norway.

Dear Mr. Gilkeson: I was born and
reared on a 1,040-acre farm where
wheat, hogs and beef cattle are im-
portant enterprises. I studied Voca-
tional Agriculture 4 years in high
school and have now completed 2 years
at Kansas State College where I am
majoring in animal husbandry. After
graduation I plan to farm.

I have an 11-year record of 4-H
Club work, have held several club of-
fices and was awarded a Sears-Roebuck
scholarship in 1950. I also have been
a member of the Future Farmers of
America, and was vice-president of
my group and a member of its live-
stock judging team. I have taken part
in church youth organization and sev-
eral college groups. In 1951, I was
awarded the agricultural freshman
scholarship to the American Youth
Foundation Camp at Shelby, Michigan.
This award is given yearly to one of the
outstanding freshmen in agriculture at
Kansas State College.

On June 12 we sailed from New
York Harbor aboard the S. S. Volcania
bound for Naples, Italy, where we are
due to dock June 24. Twenty-four of
the 90 delegates are aboard this ship,
all bound for the Mediterranean region.

There are 3 delegates scheduled to
visit Greece this summer. In previous
years only 2 have been sent. Those go-
ing this year are Robert Irving Peck,
Clinton, New York; Robert Warren
Jones, Blairsville, Georgia, and myself.

Well, so long for now. You'll be hear-
ing from me in the next few weeks
from Greece!—Daniel Petracek.

For Safer Farming

Count yourself out! Every year
there are hundreds of farm acci-
dents that could be avoided. To be
on the safe side, read a little book-
let issued by the Kansas State
Safety Council, "Safety First in
Kansas Farming." Kansas State
college specialists helped write it.
For your copy, write Farm Service
Editor, *Kansas Farmer*, Topeka.
No charge.

Management Practices Will Aid In Controlling Nematodes

By WILLIAM G. AMSTEIN, Kansas State College

MORE KANSAS GARDENERS, in-
cluding growers of vegetables, flowers,
fruit and nursery plants, are aware of
a problem called root knot caused by
nematodes. It is one of the few plant
diseases caused by an animal parasite.
A large number of different kinds of
plants are attacked by root knot.
Plants with root knot or nematode
infection vary a good bit in appear-
ance. Short season crops may be in-
fected or affected but the condition is
not as noticeable as on longer season
crops. Usually folks blame the con-
dition on dry, hot weather since stunt-
ing and yellowing of plants are the
most signs. Loss of foliage may be
noticed and in severe cases actual kill-
ing of plants will occur.

Swollen Roots Appear

Removed from the soil a diseased
plant will have swollen, misshapen
roots that at an early stage might be
mistaken for nodules as they appear
on legumes produced by nitrogen-fix-
ing bacteria. Root knot is caused by a
nematode (eelworm) that is so small
it cannot be noticed by the naked eye.
Normally nematodes do not move very
fast. However, working the ground
helps to move them around, as does
the use of infected plants as well as move-
ment of equipment from one area to
another. Washing soil or drainage may
move them to new areas.

There are several practices that will
aid in controlling nematodes. Crop ro-
tation is one of the best and most
practical measures. In an area known
to have nematodes, crops subject to
the condition should not be grown for
3 or 4 years. Likewise weeds should be
kept out since many of them will serve
to carry nematodes along.

Soil fumigation is fairly expensive
and is not suggested, except where real
high value crops are to be grown or
only limited areas for certain crops are

available. Yards, gardens, greenhouses,
nurseries and similar areas may justify
use of fumigants. In recent years bet-
ter methods of applying these control
chemicals, as well as lower costs, in-
crease our opportunity to use them
where needed. In some gardens or
fields only small areas may need to be
treated.

Some commercial materials for fumi-
gation are Larvacide (chloropicrin)
D-D mixture, Dowfume G, Iscobrome
and Soilfume. All land must be free
of crops during treatment and for 2 or
3 weeks afterwards. Directions for
proper use of these materials are avail-
able with the products.

On larger areas, clean cultivation
will help reduce the carryover of
nematodes. Unless soil is too subject to
erosion, this practice could be used
with excellent results.

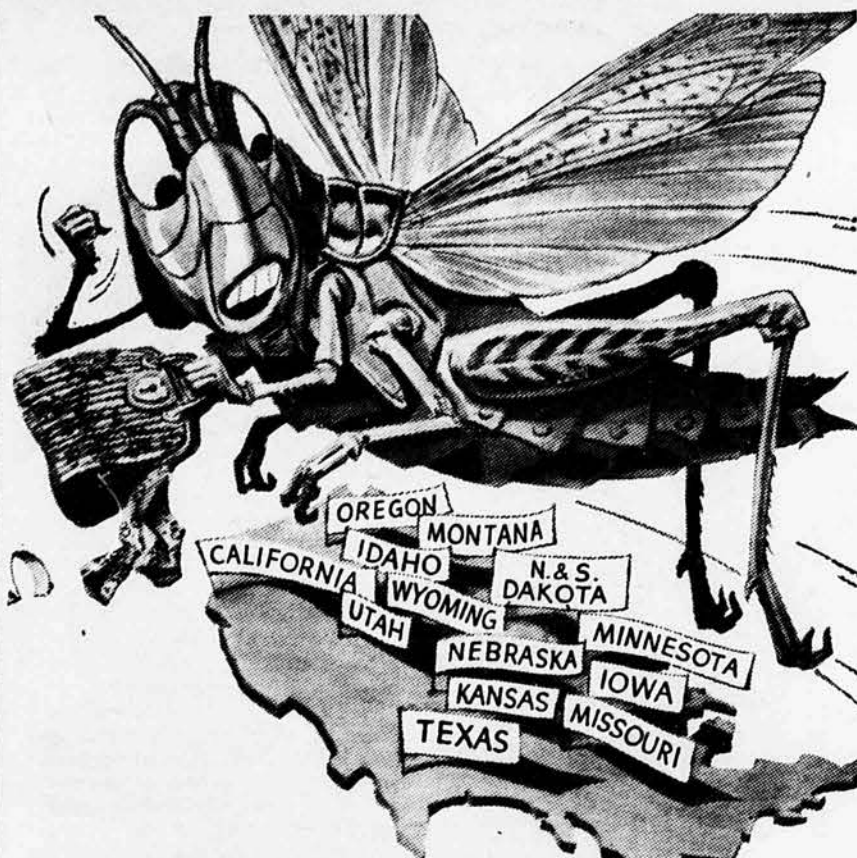
In buying plants or nursery stock of
all types, take care and buy from re-
liable firms who practice control meas-
ures. Too often diseased plants are put
out on clean ground.

Real Progress Made

More recently, and main promise for
most crops in the future, is use of va-
rieties or strains resistant or tolerant
to nematodes. Some real progress has
been made with more results coming.

Most common garden vegetables ex-
cept sweet corn are subject or suscepti-
ble to nematodes. Fruits such as cherry,
grape, strawberry, peach and plum
also are subject to this injury. Rose,
sweet pea, violet, hollyhock, dahlia,
peony and begonia are among plants
subject to nematodes.

Crops resistant or immune to nema-
todes are corn, kafir, milo, wheat, oats,
rye and a few varieties of cowpeas such
as Iron and Brabham. Some ornamen-
tals that are resistant include zinnia,
nasturtium, marigold, gaillardia and
narcissus.



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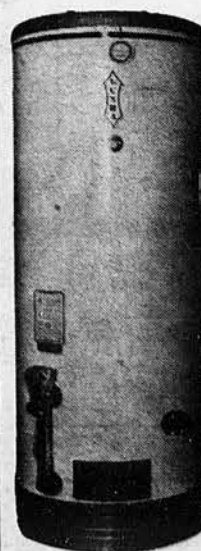
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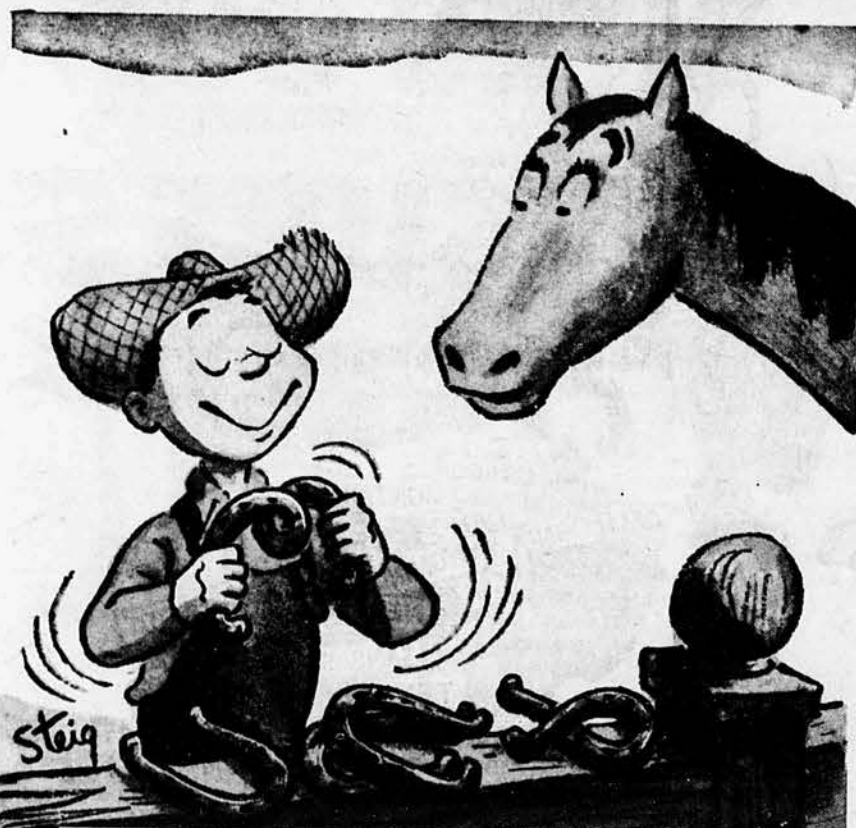
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IN
REGULAR
AND
FAMILY
SIZE



Dwight Hull SAYS...

Our Visit to Beltsville Experiment Farm Made Us Do Some Dairy Arithmetic

SUCCESSFULLY RAISING a dairy calf to maturity without giving it any whole milk and as little as 300 pounds of skim milk, and having it as well-grown and as thrifty as a calf receiving 500 to 600 pounds of whole milk and 2,000 to 3,000 pounds of skim milk, was a new conception of calf feeding to me. At least one I had given little consideration to until I recently visited Beltsville, Md.

I think most farmers know Beltsville, Md., as home of the experimental farm of the U. S. Department of Agriculture.

This Agricultural Research Center of the USDA as it is properly called, is located 13 miles northwest of Washington, D. C., near Beltsville, Md. The 1,200 acres devoted to research on better farming and farm living make probably the largest tract of land in the world used exclusively for this purpose.

Add Land Over Years

This land was not all acquired at once. It had its beginning in 1910 when 475 acres were acquired for use of the Bureau of Dairy Industry and Bureau of Animal Industry. But today, all bureaus or branches of the Department of Agriculture are carrying on many types of research work.

To get a little better idea of the vastness of this research center, there are 2,300 persons working there on some type of research work, nearly 3,000 experimental farm animals, 10,000 mature laying and breeding fowls, and about 5,000 small animals. Of the 3,000 farm animals about 600 are of the dairy breeds. There are 40 laboratory buildings, 31 greenhouses and numerous barns and small buildings. It is estimated the entire cost of land, buildings, roads, equipment, service facilities is about \$13,000,000.

We made no attempt at anything but to get a little glimpse of the main buildings, and learn a little of the dairy research work now being conducted. Our

host for the occasion was O. E. R. chief of the Bureau of Dairy Industry. Many Kansas people know him personally and remember when he was head of the dairy department of Kansas State College.

Several dairy heifers developed without any salable whole milk and a limited amount of skim milk were served, and unless one knew he would never guess how they had been fed. The experiment of feeding a limited amount of skim milk and no salable whole milk to dairy calves was begun in 1933. I gathered the impression at Beltsville it is felt this experiment has proved not only to be desirable but practical.

Feeding Method Used

The method used in feeding heifers was to give them colostrum for first 3 days, and then skim milk containing 2 to 4 teaspoons of cod liver oil daily. This is very essential in order to take care of the vitamin A requirement of the calf. It is recommended skim milk be fed at a rate of 8 pounds a day until calf is 10 days old, then increase to 10 pounds for the next 10 days, 12 pounds for the next 10 days. This case the calf is to be weaned in 30 days. Recommended amounts are slightly different if the calf is to be kept on milk 60 days. In this case you start with 8 pounds a day for first 10 days, then 10 pounds for next 30 days, decrease to 6 pounds for 10 days, a further decrease to 4 pounds for 10 days. It is recommended that as skim milk is decreased or dropped, equal amount of warm water be added for some time. At the same time ample supply of good clean water kept before the calf at all times.

Grain and hay feeding should be encouraged at an early age. Various methods were suggested to teach the young calf to eat grain, such as rubbing dry grain mix on its wet nose just before feeding.

(Continued on Page 15)

GRANDMA By Charles Kuhn



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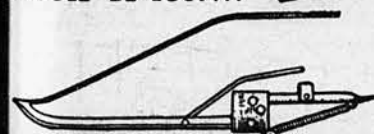
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as it finishes drinking, or mixing a small amount of grain with last portion of the skim milk. It was felt calves should be eating a pound of grain a day before skim milk is taken away. The grain used was just a simple mixture most any dairyman would use, such as 2 parts cornmeal, 2 parts wheat bran and 1 part linseed oil meal. In some early experiments quite a large amount of grain was fed during the first 5 or 6 months, but in later experiments amount of grain was limited to a maximum daily allowance of 4 pounds for large calves to 3½ pounds for smaller calves. This was gradually reduced at about 6 months of age and no grain was fed after 9 or 10 months.

It was highly recommended that with this plan of feeding, calves should have good, leafy alfalfa hay to eat at all times, and every step be taken to encourage them to consume as much hay as possible. However, if grass hay is fed in place of legume hay about 2 per cent of bone meal or ground limestone should be added to the grain ration.

List Feed Requirements

In these experiments total feed requirement for a heifer to one year old would be about as follows: 200 to 400 pounds of skim milk, 475 to 550 pounds of grain and from 2,800 to 3,500 pounds of hay. About the only disadvantage, if it is a disadvantage, reported on this experiment was that calves were somewhat undersize until they were about a year old, but from that time on were as large and growthy as calves handled in the customary way.

Since we have been feeding our calves 8 pounds of whole milk a day for 90 days, then weaning them, this information caused us to do some figuring. At the present price we get for whole milk this would mean it is costing us from \$40 to \$50 just for the milk for 90 days. This amount would be sufficient to pay the cost of all feed for a heifer up to one year by using the USDA method.

During our visit, a very interesting discussion was given on various methods of preserving hay, such as field curing, barn curing and grass silage. The new-type silo used for grass is what is known as the gas-tight silo. This apparently completely eliminates any waste silage and can be filled in any amounts desired without waste. All of this further emphasized to me the necessity of excluding as nearly as possible all air from silage in making high-quality feed.

Develop Crossbred Animals

Another very interesting experiment is crossbred animals developed by crossing a Red Sindhi bull, imported from India, on our dairy breeds. While these animals were not too handsome, those in milk had some very creditable records. Object of this experiment is to try to develop a dairy animal that is capable of withstanding the heat as the animals in India are known to do, and at the same time try to maintain the level of production of our dairy cows.

We also observed quite a group of crossbred cows. This cross was made by using proved bulls of one breed and crossing with cows that had been line bred for high production of another breed. This experiment, as I understand it, is to determine whether hybrid vigor can be produced in dairy cattle the same as vigor in corn and chickens.

We completed our visit to Beltsville with a feeling that our stay had been all too short but with a desire to return sometime when we can spend several days. Also with a feeling that we as farmers and dairymen should somehow be more aware of the many worthwhile results being discovered at this the world's largest agricultural research center.

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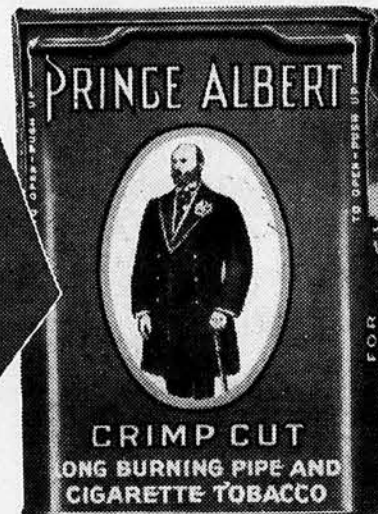
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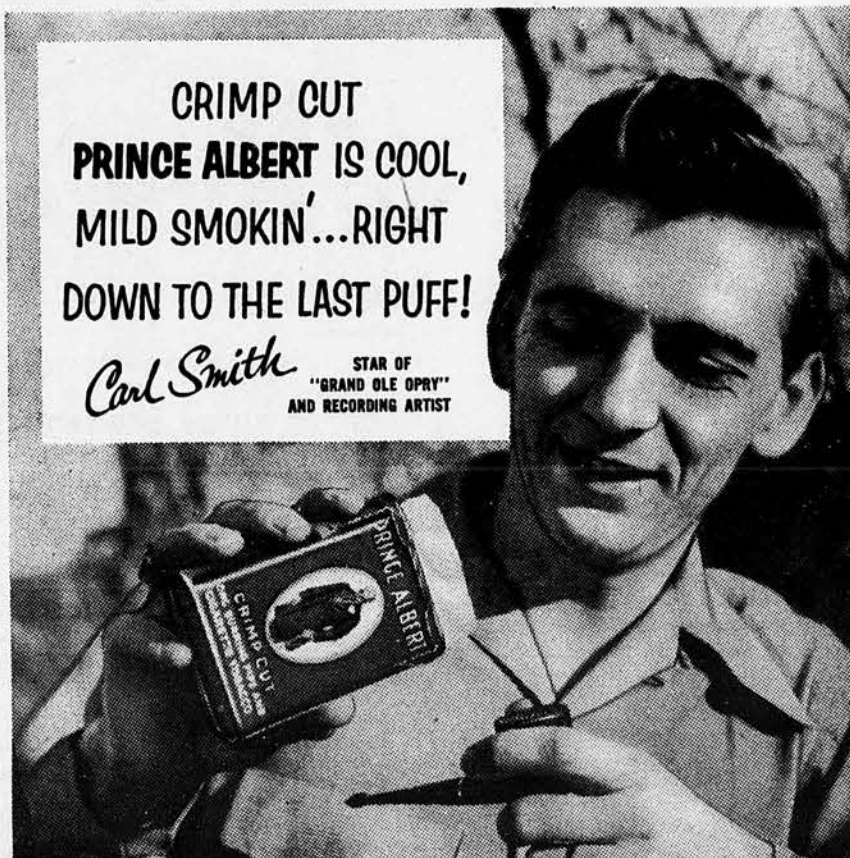
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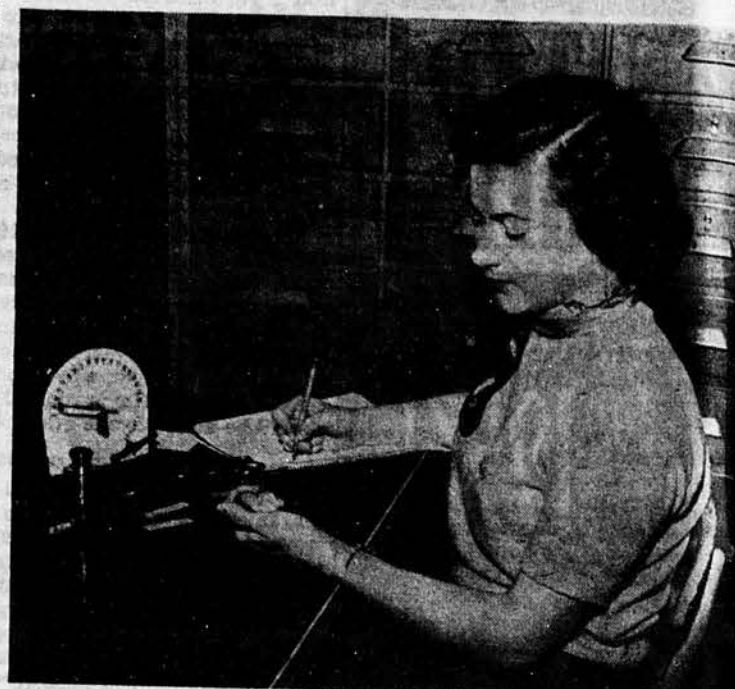
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Kansas Farm Home and Family

FLORENCE MCKINNEY, Editor



GRADUATE of 5-year home economics and nursing course, Jeanne Homan, right, now an instructor at Yale University. Posing as patient is Carolyn Mae Stein, Gypsum, now at University of Kansas Medical Center.



JERRINE LEICHHARDT, of Peck, works on a problem in textile analysis. She is interested in teaching and Extension work.

Their Futures Are Bright

Fine professional careers await graduates
in home economics at Kansas State



INTERIOR DECORATION as a profession attracts many students. Seated is Carol Hahnenkratt, of Phillipsburg, and standing is Anita Shields, of Lost Springs.

COLLEGE LIFE is fun, too. At dormitory are left to right, Shirley Cromwell, Lincoln; Snowdie Bilderback, Olathe; Mary Martin, Rossville; Vera Banman, Centralia; Iolene Morrison, Stafford; sitting, right front, Melva Shepler, Wichita.

WHAT can a girl do with a diploma in home economics? Well, a job awaits every girl who graduates from the school of home economics at Kansas State College. That's assured because the demand exceeds the supply every year.

She has learned to make and preside over a happy and efficient home for her husband and children, she can teach, she can be a home demonstration agent, a dietitian, an interior decorator, she can even become an important cog in a modern business or institution.

Many of the young women who were gradu-

ated this year already have landed jobs in a rich variety of business and professional fields. A considerable number have married or intend to be married soon, part of them to assume homemaking as a full-time position. Others will combine a career with their homemaking.

Demand is enormous in large towns and cities for directors and teachers in nursery schools. The child welfare department provides courses for these positions and for specialized social work and above all, just right for the biggest of all jobs, that of homemaker. At Kansas State the child welfare de- [Continued on Page 17]





STUDYING ADVANTAGES and disadvantages of saucepans are Mrs. Dick Bertrand, formerly Elaine Kelling, Cedar, left, and Frances Anne Slothower, Wellington.

partment is only one of several courses that prepare the home economics student for a career.

Next fall 7 of the 1952 seniors will begin dietetic internships at approved hospitals. The dietetics department is so well recognized graduates have no difficulty obtaining appointments to their liking. A group 3 or 4 times as large as last year's class could be placed in good internships with ease. Internships other than in hospitals are available these days, so students may apply for appointments suited to their interests. A life insurance company, for instance, offers an administrative internship, the large food service units of the company providing laboratory facilities.

Can Be Demonstrators

Other girls who majored in foods and nutrition will go into jobs as demonstrators for utility companies, the National Meat Board, Wheat Flour Institute, into food research, test kitchens as well as into teaching. There are 3 young women in the foods department working for the degree of Doctor of Philosophy, which has been offered only within the last 3 years. Food, nutrition and dietetics majors as well as prospective home economics teachers and home demonstration agents require a chemistry background.

Demand is great for girls who take the 5-year course in home economics and nursing. Girls interested in this course attend Kansas State for 2½ years, then go to the University of Kansas Medical Center for their remaining work. The nurse by this route has positions open to her that are not open to nurses who are not college graduates. They become teachers of nursing, public health nurses and accept administrative positions. So many positions are available the girl graduates have many choices in all parts of the country.

Take Clothing

Girls who are getting ready to teach, the girl who wants to specialize in costume design, girls who want to be home demonstration agents and who want to get into retailing all take a good many courses in clothing and textiles. There are increasing demands for home economists in this field. As for retailing, there are openings in selling, personal shopping, stock room work, office work and buying. One large department store in Kansas City, Mo., accepts each summer what it calls "the training squad." A dozen students with special aptitudes acquire some experience in the retailing angle at the store.

Some girls who get masters degrees in clothing and textiles may teach in colleges, large high schools, become Extension specialists, go into research with commercial firms or with the Bureau of Human Nutrition and Home Economics in Washington.

The girl interested in household equipment and housing, takes a major in the department of household economics. There are 2 basic courses, one in family finance and the other in "the house." Graduates may go into demonstration work with utility companies which sell ranges, refrigerators, laun-

dry equipment and lighting. Many of these girls take some journalism courses for their jobs may call for writing. All girls who become teachers and home demonstration agents live and work in 2 of the 3 home management houses for 9 weeks.

The art department also takes an important part in home economics. Four majors are offered . . . interior decoration, costume design, teaching and general design. There is a demand for interior decorators these days from both large department stores and small specialized shops. Matrimony as in all the other departments has taken many of the graduates out of the professional job market. Thus the demand is greater than the supply of well-trained young women.

In the journalism department special courses in writing are offered to the home economist who wants to make writing her career. These girls have a wide field in which to work . . . radio, advertising, editorial work with newspapers and magazines, teaching and work in experimental kitchens which require some writing. For the married graduate, there is a possibility of considerable income from free-lance articles in magazines and newspapers.

World Travel

More perhaps than in any other school in the college, world travel has been a part of the experience and education of the members of the home economics staff of teachers. Several have used sabbatical leave for travel in the far corners of the world. Some have aided in establishment of home economics departments in colleges around the world. Three have spent a year each in India, others have worked in the Philippines, New Zealand, China and South America. The international influence of the Kansas State school of home economics is considerable. Teachers are experienced in the ways of other peoples of the world, an important factor in the modern world. Not only has the staff traveled and learned while traveling, but for many years the department has attracted students from all over the world. One has just returned to China, 2 from the Philippines are enrolled at present, last year one student was from far-away Thailand, one is coming from Pakistan.

Helpful Association

Association with these students from around the world and the widely-traveled staff is bound to be an asset in the well-rounded education of the high school graduate who wishes to be a home economics student at Kansas State.

Campus organizations and social life aid the girl to meet social responsibilities in her future life, whether it be a professional career or homemaking. Combined with any one of the courses in home economics, she is fitted for a rich and satisfying life ahead.

Glove for Duster

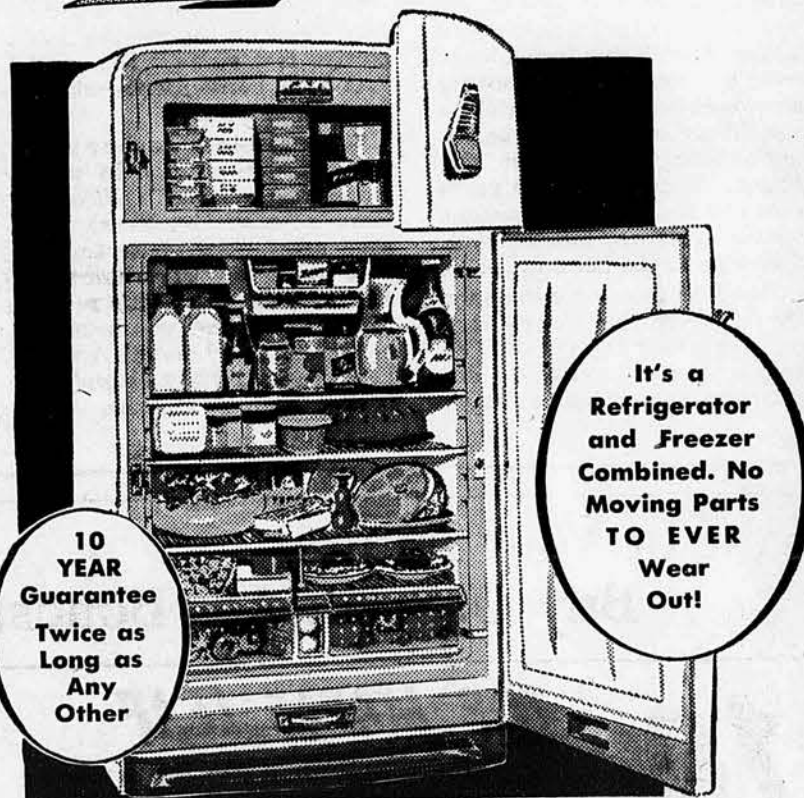
I find a cotton work glove turned fuzzy side out and slipped on one hand is very handy for dusting Venetian blinds.—Mrs. D. L.

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With daughters Janice and Joyce, Mrs. Ralph Skeen looks over her scrapbook of cooking awards at her home in Hutchinson. Mrs. Skeen has been entering cooking contests at the Kansas State Fair for 6 years now and has been a consistent winner. Just last fall she took 5 first prizes for her entries!

Besides preparing entries for the fair, Mrs. Skeen keeps busy cooking for her family. And like so many expert cooks, she depends on Fleischmann's Active

Dry Yeast for top results. "It's always fast rising," she says. "And so convenient—stays fresh for months."

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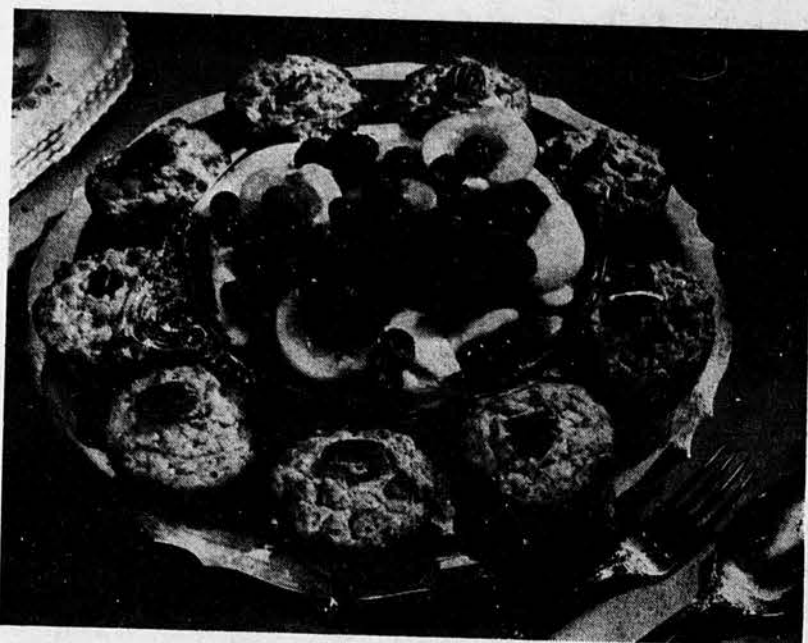
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THE RECIPE CORNER



FRESH-BAKED MUFFINS and fresh fruit solve the summer refreshment problem. Add a sprig of mint as garnish.

Pecan Muffins

1 cup sifted flour
3 teaspoons baking powder
1 teaspoon salt
¼ cup sugar
1 egg, beaten
½ cup milk
4 tablespoons melted fat
2 cups bran flakes, wheat flakes or slightly crushed corn flakes
12 pecan halves

Sift together flour, baking powder, salt and sugar. Combine egg with milk and slightly cooled fat. Add to flour mixture, stirring only enough to dampen flour. Fold in cereal, being careful not to overmix. Fill well-greased muffin pans, two-thirds full. Place pecan half on top each muffin. Bake in moderately hot oven (400°) about 20 minutes. Makes 12 muffins in 2-inch muffin pans.

Frozen Lemon Cream Dessert

3 eggs, separated
¾ cup sugar
¼ teaspoon salt
¼ cup lemon juice
½ teaspoon grated lemon rind
1 cup heavy cream
16 graham crackers, finely rolled

Beat egg yolks and add ½ cup sugar, salt, lemon juice and lemon rind. Cook in double boiler until thickened. Cool. Beat egg whites stiff with the remaining sugar. Add lemon mixture. Whip cream and fold into mixture. Line refrigerator tray with three fourths of graham cracker crumbs and pour filling in tray. Top with remaining crumbs. Freeze until firm. To serve cut into wedge-shaped pieces. Makes about 8 servings.—By Mrs. Phil Bentz, Overbrook.

Oven Hamburger Stew

3 cups cubed raw potatoes
2 cups sliced carrots
1 large onion, chopped
4 tablespoons fat
2½ cups cooked tomatoes
1 cup water
3 tablespoons flour
¼ cup water
1½ pounds ground beef
1 teaspoon salt
pepper

Parboil potatoes and carrots until almost tender. Drain. Brown onion lightly in 2 tablespoons fat. Add tomatoes and water. Blend flour and ¼ cup water, add to tomato mixture and cook until thickened. Combine with potatoes and carrots.

Combine ground beef, salt, pepper and if desired ½ teaspoon of Accent to bring out the natural flavor. Form into small balls and brown in remaining fat. Pour vegetable mixture either into one large casserole or individual ones. Place browned beef balls on top

the casserole and bake in moderate oven (350°) for 20 to 25 minutes. Makes 6 to 8 servings.

Cook Saturday for Sunday

Tired of cooking on Sunday? Try some dishes that can be mainly prepared on Saturday and may be given the last touches when you return home from church.

Meat patties, for instance. Mix ground beef with celery, onion, or other seasonings, make into patties, place on waxed paper and place in the refrigerator.

Meat loaf is another example. Try putting potatoes inside and the raw, seasoned ground meat around them. Place on a pan ready for a hot oven after church.

Meat pie: Cook your favorite stew, seasoned and place mashed cooked potatoes on top. Cover and keep cool until you are home from church. Then put in a hot oven. As the meat gets hot, the potatoes will brown and in the meantime you can make a tossed vegetable salad and set the table.

Transfer Designs



Spring's loveliest blossoms in sunlight yellow, soft pink and delicate green. Makes new linens like new. Simply iron motifs on curtains, tea-towels, aprons. Quick to apply. Washable and no embroidery.

Pattern 7011 has transfer of 16 designs 1½ by 2½ to 4½ by 13 inches.

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

County-Wide Flower Show First in Jefferson County



JUDGES: Left to right are Mrs. Kenneth Zachariah, McLouth; Mrs. H. D. Steinmeyer, Topeka; Mrs. Herman Putthoff, Effingham.

JEFFERSON COUNTY had its first county-wide flower show on June 4 and it was a grand success. The contest and exhibit was open to all women, town and country, and sponsored by the county Extension advisory committee under the direction of Mrs. Donna Kempton, home demonstration agent. Flowers began arriving at the basement of the Presbyterian Church in Oskaloosa long before judging time.

Entries from Clubs

Ten entries from clubs were included as well as 166 individual entries. While judges were busy deciding winners and presenting blue, red and white ribbons, women gathered in the church sanctuary for group singing and to attend the program at which awards to home demonstration units were made for achieving standards of excellence. Twenty-six units received this coveted award. Mrs. Herman Putthoff, Effingham, gave a special demonstration on flower arrangement and corsage making. She presented one to Mrs. Annie Metzger for being the oldest woman present and another to Mrs. Marjorie Wellman for the youngest. Also on the program was Anna Heindlemier of Germany who is one of the farm youth exchange students. She lives at present with the Herman Putthoff family in Atchison county.

Blue Ribbon Winners

Two blue ribbon awards for hybrid tea roses went to Mrs. Pete Iverson and 2 others to Mrs. Earl Bower, both of McLouth. Mrs. Iverson also won a blue ribbon for the best poppy. On mixed perennial arrangements blue ribbons were awarded to Mrs. C. O. Morton, Route 3, Lawrence; Mrs. Pete Iverson and Mrs. Leota Gontz, Winchester. In the bearded iris class the blue ribbon went to Mrs. Myrtle Edmonds, McLouth. Mrs. Myrtle Plummer, Perry, won the blue ribbon in the remaining iris class. Mrs. Stella Ott, Valley Falls, received the same award for red peonies.

Other farm women blue ribbon winners were: Mrs. Bertha Hamon, Valley Falls, white peonies; Mrs. Anna Heinika, Valley Falls, pink peonies; Mrs. Rose Hefty, Valley Falls, and Mrs. Eunice Clark, Grantville, for flowers not

listed; Mrs. Calvin Curry, Winchester, for her arrangement of common garden roses; Mrs. Herb Frisbie, Grantville, for wild flower arrangement; Mrs. Leota Gontz, Winchester, for arrangement of mixed annuals; Mrs. LaVelle Anderson, Oskaloosa, for miniature arrangement; Mrs. Guy Schultz, Lawrence, for her novelty arrangement; Mrs. LaVelle Anderson for coffee table arrangement; Mrs. Pete Iverson and Mrs. C. O. Morton, Lawrence, for hybrid rose arrangements; Mrs. R. L. Welton, Meriden, for purple violets, white violets and double violets; Mrs. Clair Rogers, Oskaloosa, philodendron; Mrs. Milton Rhodes, Oskaloosa, for novelty plants; Mrs. Darlene Schultz, Lawrence, for the best cactus and Mrs. Pete Iverson for the best corsage.

Win Attention

Group displays by the 10 clubs drew constant attention for the baskets were large and the flowers colorful and well arranged. Blue ribbon winner in this class was the Good Neighbor home demonstration unit of McLouth. Mrs. Pete Iverson grew the Paul's Scarlet roses and the mock orange and Mrs. Tabor Edmonds arranged them in the large basket.

Judges took their jobs seriously for each of the 3 was working to be an accredited judge of the National Council

Picnic Fun

We have a leaflet to help you plan your picnic fun on July 4th. Send 3c for postage to Entertainment Editor, *Kansas Farmer*, Topeka, and ask for "Fourth of July Frolic."

of State Garden Clubs. Each must pass 5 courses at the University of Kansas City and must judge a total of 5 shows. Mrs. Herman Putthoff, one of the judges, is much in demand in her community. Others were Mrs. Kenneth Zachariah, McLouth, wife of the president of the Jefferson County Farm Bureau and Mrs. H. D. Steinmeyer of Topeka.

Mrs. Zachariah brought flowers to the show but not for competition. Especially interesting and attractive were her wild flower arrangement and arrangement in brass. The former, she made from wild prairie phlox and mullein leaves arranged in a tree knot. In a tiny brass bowl she combined small Goldie Locks yellow roses with a few red-green barberry leaves. Mrs. Zachariah is an exponent that with skill one can make a lovely arrangement with very few flowers and other adornments.



AUTOMATIC CITY CONVENIENCE IN RURAL HOMES

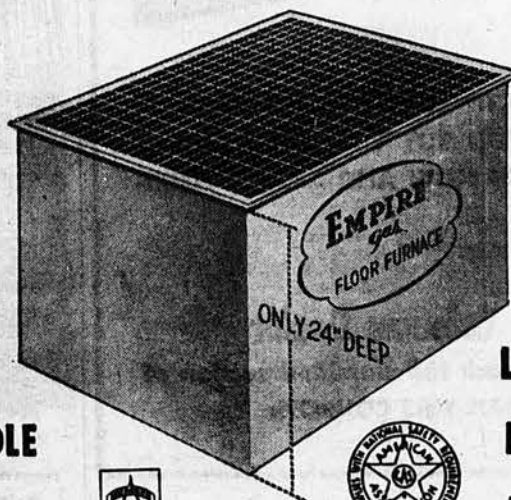
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For Youth Leaders

If you are a 4-H or youth leader, the booklet, "The Church and 4-H Clubs," by T. A. Erickson, will help you. We can have sent to you a free copy of this interesting and helpful booklet if you will make your request to Farm Service Editor, *Kansas Farmer*, Topeka.

Results of Experiments at KSC Seen on Agronomy Field Days

VISITORS TO AGRONOMY Farm Field Days, at the Kansas State Experiment Station, Manhattan, saw experiments ranging from use of Krilium for conditioning soil, to use of pre-harvest spray on legumes to cure seed on standing plants.

Both field and greenhouse experiments with Krilium have been made at the station. The field experiment did not turn out well because, it was explained, an attempt was made to mix Krilium with soil when soil was wet. In greenhouse experiments, where Krilium and dry soil of very poor quality were mixed, the treated soil absorbed moisture 3 to 4 times faster and texture appeared to be greatly benefited.

Visitors got to see samples of treated and untreated soil that had been rained on. Untreated soil had a half-inch thick crust on top, while treated soil was still pulverized and could not be picked up in chunks. It was explained that Krilium is far too expensive yet even for extensive garden use, but that other companies are making similar products and volume and competition are expected to make the idea practical on a field scale in the foreseeable future.

Visitors were told Kansas farmers are losing 30 to 50 per cent of their legumes seeds thru present methods of harvesting. Tests were made at the college with various pre-harvest sprays on alfalfa to cure the seed so it could be harvested while plants were still standing. Best of the chemical sprays brought a 30 per cent increase in amount of seed harvested compared to the swath method. Only drawback is that alfalfa treated with the most successful spray material in the Manhattan test cannot be used as feed or bedding for livestock as it is poisonous.

More Tests Needed

More tests are needed at Manhattan on mixing such sprays and on correct gallonage to apply per acre. Costs for pre-harvest spraying run \$3 to \$3.50 an acre applied, it was said.

Our best bet for improved strains of brome grass appears to be to take our seed south for development, then bring it back, visitors were told. Northern strains of brome are not proving out at the college station and die out in 3 or 4 years.

Orchard grass looks very good for Southeast Kansas and the college is making big plans for expanding its use in that area.

Reed canary grass at the Soil Conservation farm, near Manhattan, survived 24 inches of silt in the 1951 floods. It was praised by the college as an excellent grass for wet spots, especially where silting occurs. It is not considered as good as brome for normal field conditions.

CMU, a new soil sterilant, used at the rate of 40 pounds an acre, will kill all old Johnson grass plants and prevent seedlings from becoming established. It also will control most noxious perennials, but soil is left unproductive for 3 years or more.

Experiments are being carried on

with 2 types of spreading alfalfa. One spreads from the crown with runners similar to buffalo grass, and the other from root growth like bindweed. Neither will compete with any recommended alfalfa variety for hay or seed production, but may be adapted for pasture mixtures in Western Kansas. They may stand more grazing than other alfalfas and should compete better with other vegetation.

Work on sweet clover now is concerned with disease problems and attempts to develop a disease-resistant strain. Selection of Madrid plants showing resistance are being made. Variety tests include several new varieties not grown in Kansas before this year.

Use of liquid fertilizer as a seed treatment has not increased yields of either wheat or oats in Kansas experiments and is not recommended.

Corn is one of most responsive crops to nitrogen fertilizer. On most Kansas soils, during years of high rainfall, use of 2 pounds per acre of nitrogen should mean one extra bushel of corn. Normally 40 pounds of nitrogen an acre

are recommended. However, in some cases, as much as 80 to 100 pounds per acre can be used profitably. Sorghum crops respond about like corn.

Soybeans are not easily fertilized. 1951 tests failed to show much response to any fertilizer elements. Large amounts of nitrogen fertilizer placed too close to seed will damage germination.

Wheat and oats are responsive to combinations of nitrogen and phosphorus. For soils low in available phosphorus, the equivalent of 150 to 200 pounds per acre of 0-20-0 or equivalent or 65 to 90 pounds per acre of 0-45-0 should be drilled with seed at planting time. Most soils should get 75 to 150 pounds an acre of ammonium nitrate or its equivalent, applied just before planting, at planting, or any time during winter or early spring. Where soils are responsive to potash a complete mixed fertilizer should be used at planting time.

Most promising new wheats are still in the small nursery plots. They are selections from the cross (Mediterranean-Hope x Pawnee) x (Oro-Illinois No. 1 x Comanche). These selections are resistant to many races of leaf and stem rust, to Hessian fly, loose and stinking smut. They have good quality and apparently good yield and test weight. They are being tested in 9 Kan-



"Injuns passed this way—this man's been scalped!"

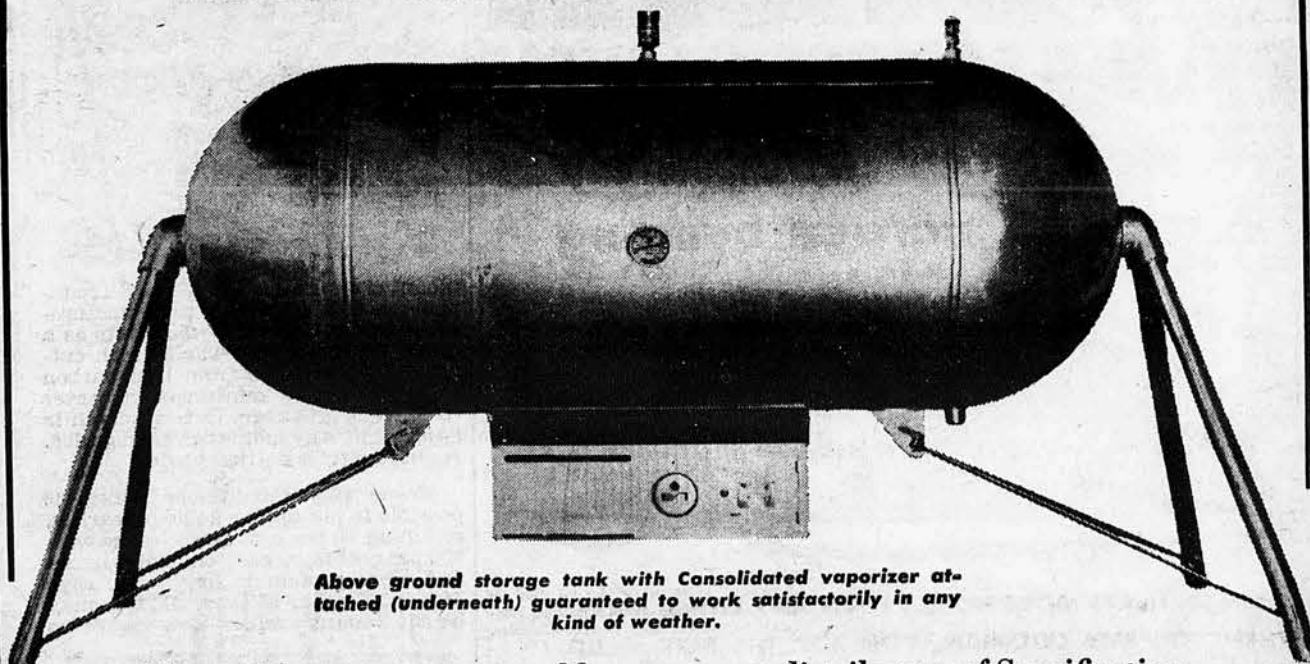
sas locations this year by performance. Adapted Kansas wheat varieties also are being crossed with wheat grasses. Some of these have the general appearance of wheat and are resistant to all races of leaf and stem rust common in North America.

Immediate prospects for a new oats for Kansas is Mo. 0-205 for Eastern Kansas. More winter-hardiness and loose smut resistance are main objectives in winter barley breeding. A very winter hardy type, Nebr. 412490, is showing much promise.

Major emphasis in sorghum breeding is to develop a combine-type, chinch bug-resistant grain sorghum for Eastern Kansas.

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ON **TEMCO** GAS FLOOR FURNACES
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Act now! Save 15% on a famous TEMCO automatic gas floor furnace or wall heater. Just 10 seconds is all it takes to tend furnace all winter long! See your TEMCO dealer now—15% SUMMER SALE discount good until August 15.

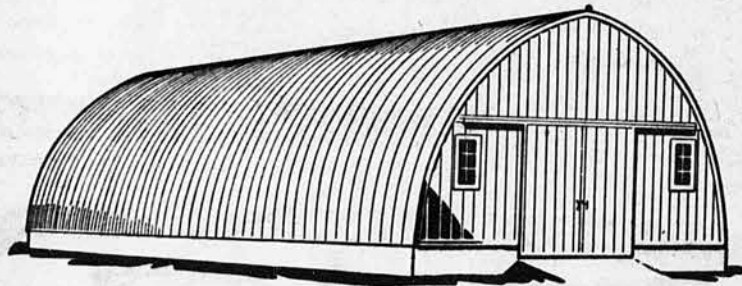


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Gas HAS GOT IT! Temco BUILDS IT... Best

BE READY FOR THE HARVEST

... store your grain safely
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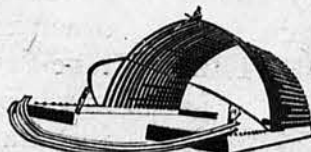


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Investigate Rilco before you build—be sure of genuine Rilco for engineered safety and all-around utility.

Any type of covering may be used on this Rilco building—metal sheathing composition roofing or wood siding and shingles.

Available in 40 and 50 foot spans



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Grain storage capacity, 480 bushels per lineal foot of length in a fifty foot span.



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HAVE YOU HEARD?



Notes on New Products and Folks Who Make Them

DE-RATTER DE-MOUSER, new bait station of Prentiss Drug & Chemical Co., is a permanent station for warfarin, the remarkable ratkiller. New device invites rats and mice as it offers

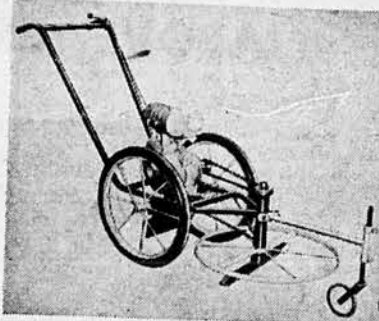
plement, Arsanilic Acid, Antibiotic (Bacitracin) Feed Supplement Lederle and Antibiotic (Penicillin) Feed Supplement Lederle.

Power Jet is a new sprayer designed for high speed broadcast spraying, states Century Engineering Corp.,



a place in which to hide while eating. It is convenient to use—easily filled, inspected, permanently fixed down or moved about.

New **Yetter Farm Mower** is designed to cut fence rows, fields and lawns. New product is announced by Yetter Mfg. Co., Colchester, Ill. Mower is



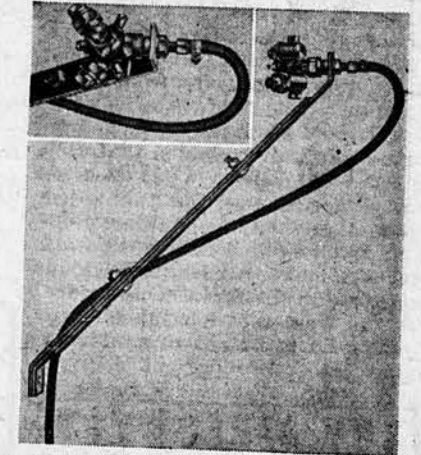
mounted on wheels equipped with semi-pneumatic tires which are puncture-proof. A third smaller wheel acts as a front balance wheel. The 21-inch cutting blade is made from high-carbon steel, is heavily reinforced in center to prevent breakage. Cutting depth is adjustable. Any motor can be installed. A guard circles cutting blade.

Meyer Hay Conditioner makes it possible to put up hay 24 hours earlier, retaining 90 per cent more leaves with 300 per cent more carotene (vitamin A) and more protein in hay. Also, says Meyer Mfg. Co., Morton, Ill., hay may be cut 2 hours earlier—dew makes no



difference. The new conditioner is made in 3 models—one with mower and hydraulic mower lift, one with mower and conventional lift and one less mower. All have greatly improved scrapers, steel cut gears, safety clutch and many refinements.

Lederle Laboratories announce 6 new feed products for use by commercial feed manufacturers: a vitamin supplement of dried citrus meal containing 25 per cent choline chloride, Profactor-B, Vitamin B₁₂ Feed Sup-



Cedar Rapids, Iowa. Power Jet permits spraying a swath up to 50 feet and covering as high as 25 acres an hour, without use of a boom. There is a special, 5-nozzle sprayer head. The new product can be obtained as a complete sprayer, or without the pump and regulator for use as an accessory attachment with other spray equipment. A single nozzle head also is available for use.

Improved Elevated Farm Fuel Unit is new addition to line of Butler Mfg. Co., Kansas City. Unit is designed to



take care of all needs for storing farm fuels. Stand is easily erected with less than 40 bolts. Unit is comprised of one 300-gallon tank, and one complete elevated stand, with skids.

Imagine a Flock of chickens laying 277 eggs per bird in one year! Hy-Line Poultry Farms, Des Moines, Iowa, says that's the production average a Texas lady got with her flock of 200 Hy-Line layers. A lady in Iowa got an average of 270 eggs per layer from her flock of 155 Hy-Lines. The company has printed a booklet telling about results of their laying contests.

New Movies

Visual Aids Materials Are becoming among the most popular and effective means of teaching all age groups—in school or out of school. At the top in this means of teaching are farm movies.

Swift and Company, Chicago, has published a new folder on 16mm. sound movies available for school, organization, and other meetings. For details, write the Company's Agricultural Research Department, Chicago 9, Ill.



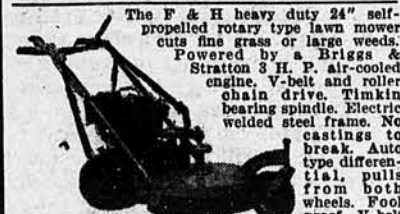
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1-52 Rates from \$4.50

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

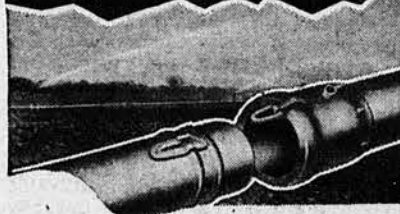
SPECIFICATIONS
Width of Cut—36 in. Bearings—Timken. Power—3 H.P. Briggs & Stratton. Frame—Fabricated Electric Welded Steel. Differential—Auto Type Drives From Both Wheels. Drive—Standard Auto V-Belts. Gears—Machine Cut. Tires—400x8 Pneumatic. Self Propelled.



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

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This lightweight, easily-assembled irrigation pipe transports water to fields, orchards and pastures quickly and economically... reclaims poor acres, makes all your land more productive. Flexible, pressure-tight, coupling makes pipe adaptable to rolling ground without use of elbows or tees. This reduces friction-loss, saves wear on pumping equipment. Aluminum or Galvanized in 3, 4, 5, 6 or 8-inch diam. Write for FREE booklet and name of nearest dealer.

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Coming Events

June 22-25—Cheyenne county 4-H Camp, Rock Springs Ranch.
June 23—Ellis county, 50th anniversary celebration, Ft. Hays KSC Experiment Station, Hays.
June 23-25—Barton county leader training on cleaning methods, with Ethel Self, KSC Extension specialist.
June 23-25—National Dairy Council, Edge-water Beach Hotel, Chicago.
June 25—Jefferson county council 4-H clothing leaders school, Oskaloosa, Extension office, 2 p. m.
June 25—Johnson county, horticulture field visits, with W. G. Amsteln.
June 26-27—Osage county, family life training school for H. D. U. leaders, Lyndon.
June 26-27—Osage county, family life leaders H. D. training school, with Mrs. Vivian Briggs, family life specialist, KSC.
June 30—Jefferson county-wide home economics judging school, Oskaloosa Legion Hall.
July 3-4—Greenwood county amateur rodeo, Hamilton.
July 3-4—Elk county rodeo, Moline.
July 6-9—Shawnee county, 4-H Camp, Rock Springs.
July 7—Jefferson county dairy tour.
July 12—Osborne county 4-H Council meeting, Osborne.
July 12-15—Dickinson, Saline, Marion, McPherson and Rice counties, 4-H Camp, Rock Springs.
July 13-16—Ford and Clark counties, South-west 4-H Camp, Dodge City.
July 13-16—Rush county, 4-H Camp, (older group), Rock Springs.
July 14-16—Shawnee county, Eastern district Extension service summer conference, Topeka, Municipal Auditorium, 9:30 a. m.
July 17-19—Northwest district conference, Salina.
July 16-19—Edwards, Pratt and Gove counties, 4-H county camp at S. W. camp.
July 20-26—Farm Safety Week, sponsored by National Safety Council and Department of Agriculture.
July 21—Shawnee county beef tour.
July 22-25—Dickinson, Saline, Marion, McPherson and Rice counties, 4-H Camp, (older group), Rock Springs.
July 22-25—American Hatchery Federation annual convention, San Francisco.
July 23—Lane, Comanche and Ness counties, Southwest 4-H Camp.
July 23—Ellsworth county, beef tour and barbecue.
July 25—Labette county, grain drying school, Altamont.
July 25—Cloud county beef tour.
July 27—Norton county, 4-H businessmen's picnic, Norton, Elmwood Park.
July 28—Johnson county dairy tour.
July 28-30—Osage county, home management training school for H. D. U. leaders, Lyndon.
July 30—Jefferson county, county-wide home economics judging school, Township Hall, Valley Falls.
July 30-Aug. 1—Sheridan county, 4-H fair, Hoxie.
July 30-Aug. 9—National Vegetable Week.
July 31—Brown county, dairy judging school, Lambert & Dickerson Guernsey Farm, Hiawatha.
July 31—Barton county, 4-H Chamber of Commerce picnic, Lake Barton.
July 31—Osage county, H. D. U. county-wide play day, Osage City fairgrounds.
July 31-Aug. 2—Cowley county, 4-H show, Arkansas City.
July 31-Aug. 2—Sheridan county, 4-H and FFA fair, Hoxie.
August 3-5—Nemaha county, 4-H fair, Seneca.
August 4—Washington county, unit lesson on washing and ironing, Ethel Self, Washington.
August 4-9—Rush county, junior leadership camp, Rock Springs.
August 5—Washington county, 4-H leader food preservation school, Elizabeth Randle, Washington.
August 5—Wabaunsee county, beef tour and barbecue, Kermit Roth farm, Maple Hill.
August 5-6—Brown county 4-H fair, Fairview.
August 5-6—Finney county, land judging school.
August 6-7—McPherson county, 4-H and community fair, Moundridge.
August 6-8—Jefferson county, 4-H Camp, Sycamore Springs.
August 7—Barton county, home economics 4-H judging contest.
August 7-8—Barton county, land judging school.
August 7-8—Morris county, district judging school for 4-H'ers, Camp Freemont, Council Grove.
August 8—Finney county, annual homemakers overnight camp.
August 8-10—Logan county, Oakley 64th birthday celebration.
August 11-13—Shawnee county 4-H fair.
August 12-14—Barton county 4-H fair.

Planning Your Kitchen

It's planning that makes the difference. Convenience and good conditions for work are 2 big items in kitchen and workroom. For helpful hints in planning these 2 rooms write us for a copy of new USDA bulletin, "Planning the Kitchen and Workroom." There are 16 good plans; most of the material is based on work of home economists who have studied work simplification principles. Send 25c to Farm Service Editor, Kansas Farmer, Topeka.

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Regular size **\$9950**

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Extra large size available

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Guaranteed to milk your cows faster than they have ever been milked before. Teat cups can't crawl or shut off milk stream. Even hardest milkers milk out clean without hand or machine stripping. You'll cut way down on cleaning time because of the exclusive Rite-Way pail. It unclamps in middle—allows you to get at all surfaces easily and do a quicker job of cleaning.

SAVES EFFORT

Milks with no foam—check valve at center of pail prevents milk from entering either vacuum line or pulsator. Rite-Way pulsator filters the air and keeps working parts free of dirt and dust—assures uniform operation. Light weight and narrow shape make the Swing easy to carry and handle, even between narrow stalls.

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Gets all the milk out—no wasted profits! The Rite-Way Swing milks your cows clean regularly—prevents slumping production and you'll get cleaner milk.

SEE FOR YOURSELF—ask for a free demonstration of the Rite-Way Swing Milker on your farm on your cows—that's the only way to judge the merits of any milker! Write Dept. K.

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- Famous Booms plus TeeJet Interchangeable Nozzles
- Booms fully adjustable from driver's seat.
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COMBINE WITH THE New INNES FLOATING PICKUP

It automatically follows the contour of your field—floats out uneven ground conditions by adapting to rough terrain, hills, and slopes, keeping always in proper working relation to the windrow! You hardly need to adjust your platform at all. Innes patented action picks entire windrow up clean, without wrapping, clogging or shelling. Light and easy to attach. For self-propelled combines—custom fittings in stiff and spring finger models for Deere 55, M-H 21A, 26, 27, Int. 125, Oliver 33, M-M-SP, Case SP. Also Deere 65. Precision-built of finest materials, like all products of this reliable old firm. See your dealer or write Innes Company, Bettendorf, Iowa, today.

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- A soil test tells you what your soil needs — to be ready to grow any crop profitably — in any season. Why not feed YOUR SOIL what it needs NOW.
- This means you can store fertilizer in your soil now in the grades your soil needs. If you wait 'til planting time, you may not be able to get the right grades. It's profitable as well as patriotic to improve the fertility of YOUR soil NOW.

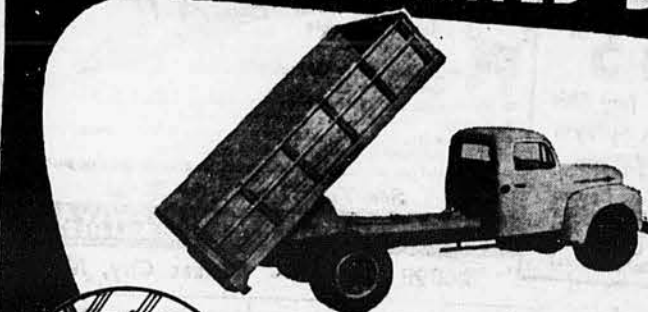
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More Farm Storage

(Continued from Page 10)

the dealer considerable latitude in providing gas.

Here's another way to illustrate the point. Suppose consumption is 2,000 gallons a year. A tank that holds 250 gallons would require 8 fillings a year; one that holds 500 gallons would require 4 fillings, and one that holds 1,000 gallons, only 2 fillings a year.

The Kansas LP-Gas Association cites this example: One farmer's requirements for cooking, refrigeration, house and water heating is 1,520 gallons a year. He has a tank of 530 gallons gross capacity. It can be filled only to 85 per cent of that. So on September 1, the dealer puts in 450 gallons. Between then and December 10, the farmer uses 354 gallons, and has only 96 left, with the coldest weather ahead. Adding 350 gallons brings the storage to 446 gallons. By January 10 reserve in the tank is down to 92 gallons. So the dealer makes another trip and adds 350 gallons. By March 1 reserve is down to 80 gallons, and the dealer puts in 370 gallons to fill tank to capacity. From March 1 to September 1 consumption is 450 gallons, which leaves the tank empty.

He Gets By

So what? He gets by, doesn't he? Yes, by the skin of his teeth. And the day could come when he doesn't. Note his reserves are below 100 gallons on each of the delivery dates—December 10, January 10 and March 1, and his tank is empty September 1. That's not much safety margin. But barring some extra consumption, a storm that interrupts deliveries, bad roads, severe weather that draws the supply elsewhere or slows shipments, strikes at producer plants or on railroads, shortages of tank cars, even freight train wrecks—barring several mishaps that are not improbable, he gets by.

But suppose the farmer installed a tank with 1,000 gallons gross capacity. On September 1 the dealer puts in 850 gallons, all the tank will hold. From then to January 20 consumption is 748 gallons, with a reserve of 102 gallons. The dealer delivers 670 gallons on the second date to bring the storage to 772 gallons, which lasts until September 1. The 530-gallon installation requires 4 trips to supply 1,520 gallons and nearly 70 per cent of the fuel must be delivered in winter. Under the 1,000-gallon installation, only 2 deliveries are required for the same amount of fuel, and only 44 per cent of it is delivered in winter.

Costs of Storage

But why can't the producer, distributor or dealer provide storage? They could, but the cost under present facilities and methods would be high. Enormous, thick-walled, expensive tanks would be required. Then some, at least, of the storage would be empty part of the time as winter demand drew down the supply.

The industry has been experimenting with underground salt-dome and rock storage, but that hasn't been developed extensively. Further such storage will not relieve transportation and delivery bottlenecks in time of peak demand. They can be relieved only by storage on the premises where LP-gas is to be used.

Storage costs money whether you supply it or somebody else does. If your tank is too small, the dealer, distribu-

tor or producer must provide the necessary storage to guarantee uninterrupted service and you pay for it in the price of gas. Likewise deliveries cost money. So the more gas you take in a load and the fewer deliveries you have, the less you pay for service.

The excess of winter needs over summer needs gums up the whole industry. The LP-Gas Information Service discovered that the month of highest consumption was nearly 13 times that of the lowest. And winter demand outstripped summer demand by about 4 to 1.

Year Around Output

Producers have their plants geared to steady output the year around. That is the only way they can operate efficiently. Their labor and equipment must be kept busy. They can't slow down in summer when demand is slack and speed up in winter when demand is brisk. Or if they do, even in some measure, the extra expense must be passed on to the consumer. The same is true of dealers or distributors. That is why the industry committee recommends more farm storage.

One big reason behind the adequate storage program is to bring better balance between summer and winter deliveries. That benefits you in 2 ways. First, it provides better insurance against a shortage of gas interruptions in service as previously explained. Second, it enables the dealer to get better allotment of gas. You, as a user of LP-gas for cooking, refrigerating, home and water heating, are just as much entitled to a priority as a domestic user of natural gas. If you have an adequate tank, that is physical evidence that you are entitled to such priority.

Allocations Are Based

Allocations are made on the basis of summer deliveries, April to September inclusive. For instance during the year beginning April, 1951, the dealer was allowed 1½ gallons in the 6 winter months, October thru March, for every gallon he delivered during the 6 summer months. The trend in allotments is toward narrowing ratios, even as low as 1 to 1. That would make the winter supply situation tougher—and add further advantage for farm storage.

In most cases where the tank is big enough for the 4 main domestic uses in winter, it will also be big enough for tractor operation if that is added later. But if you already are using LP-gas for power and other production operations, the dealer will take them into consideration in figuring the size of tank you need.

A further advantage usually accrues for the larger tank, say in shifting from 250 or 500 gallons to 1,000 gallons or larger. Most dealers, because they can make larger deliveries at a trip, offer some price concessions for gas. In that case the saving will pay mighty good interest on the investment in a bigger tank.

Armed With Books

I get children's books from the library to read to small children who visit me. I also go "armed with books" when I do occasional baby-sitting. Reading is the easiest way in the world to entertain children. They love it! One little friend comes every day for a story.—By M. H. G.

COMING, NEXT ISSUE

Not by the closest examination would you suspect the decorative vases, boxes and baskets were made of crepe paper. The reason is no secret, for we are going to tell you in the next issue of **Kansas Farmer**. Watch for the story called "Crepe Paper Rope Craft" in the Kansas Farm Home and Family department for July 5. We think it's just right for the craft hours in women's summer camps and 4-H Clubs.

USDA Honors Three Kansans

Several Kansans were honored by the U. S. Department of Agriculture recently for outstanding agricultural service.

Clifford L. Harding, Iola, was honored "for widespread recognition of the effective use borrower families in Allen and Woodson counties have made of Farmers Home Administration supervised credit services." He has been county FHA supervisor at Iola since 1940.

Robert E. White, native of Linn county, and now a PMA official at Portland, Ore., was honored "for co-ordinating and directing wheat field varieties surveys and assembling information regarding surveys of smutty wheat which have been of invaluable aid in combating the smut blight in the Northwest."

Clifford W. McKay, Wichita, was honored with a "Length of Service" Award for 40 or more years of service in agriculture. He is with the Bureau of Animal Industry of the U. S. Department of Agriculture.

Study Better Use of Land

More than 1,500 persons attended the First National Land Judging Contest at Oklahoma A & M College in May. There were 109 FFA teams, 74 4-H Club teams and 80 adults entered in the contest. Youth had an opportunity to put into actual practice their knowledge and skill at judging soil and making their recommendations for most efficient use of land. Eleven states, including Kansas, took part in the 2-day event.

KSC Judges Win

Kansas State College dairy judging team won 1st place in U. S. in annual Hoard's Dairyman cow judging contest. Their score was highest recorded in 22 years of competition, and 12 points higher than 2nd place winner, Ohio State University. KSC teams also won 1st in 1936, 1943 and 1944.

Members of the 1952 team include Joe Armstrong, Trent, Tex.; Richard Hartkopf, Union, N. J.; Frank Hutchinson, Atwood; Mark Alley, Rose Hill; Sherlund Prawl, Severance; Glen Krumme, St. Joseph, Mo.; Carl Stauffer, Humboldt, Nebr.; Roy Harkrader, Jr., Benedict; William Bergman, Paola, and Leonard Slyter, Fontana.

Vocational Agriculture Association Elects

Officers of Kansas Vocational Agriculture Association for 1952 are Kenneth Henderson, Garden City, president; C. O. Carter, Chanute, vice-president; J. W. Taylor, Manhattan, secretary-treasurer; and these directors: Powell Heide, Pretty Prairie; John Lacey, Hill City; Frank Carpenter, Beloit; Roy Eck, Effingham; Raymond Morman, Ford; Emory Groves, Emporia, and Ralph Gier, Parsons. They were elected at the annual conference at Manhattan, June 13.

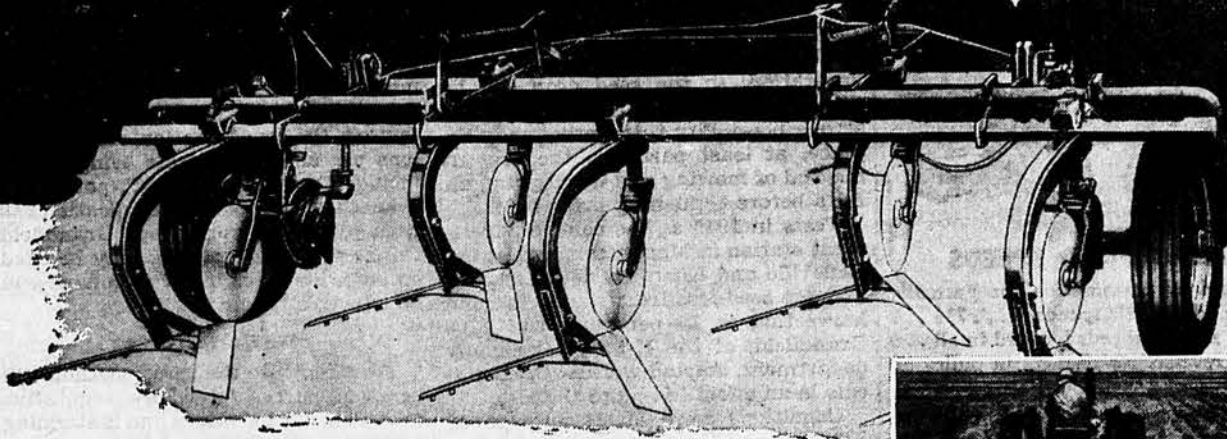
Thank You

I want to compliment you on your fine paper, *Kansas Farmer*. It is a very timely paper, and full of good, everyday, practical help and information.—Mrs. A. W. Oyer, Reno Co.

Plan Your Home

More interest is shown today in better farm housing than in Grandma's day. Homes are planned for convenience and beauty. For help in planning a home on the farm, write us for a copy of Farmhouse Plan No. 7014. Write Farm Service Editor, *Kansas Farmer*, Topeka, Kan. The price is 60 cents for the plan.

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DEMPSTER

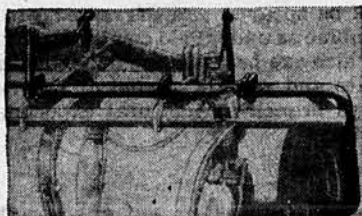
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NEW HEAVY DUTY 12 FT. CARRIER WITH DOUBLE POWER LIFT

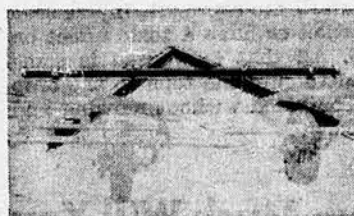
Greatest strength per weight ever built into a carrier — most versatile in its uses, greatest in its capacity — that's the new Dempster No. 100-12 Heavy Duty 12 ft. Carrier. It's the big, rugged, simplified, double tool bar, double power lift addition to the famous Dempster No. 100 Series.

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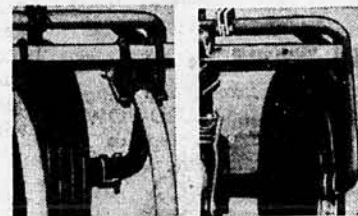
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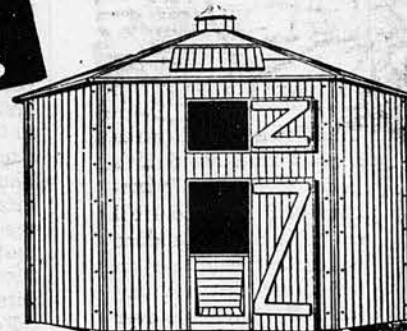
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No. 7 in special series telling how scientists at Kansas State College improve your crops

Hope Pre-harvest Alfalfa Sprays Will Save One-third More Seed

EXPERIMENTS at Kansas State College with chemicals to cure alfalfa vegetation, so the seed crop can be taken from standing alfalfa, offer the strong possibility this method may replace, at least partially, the present method of mowing and windrowing alfalfa before combining it for seed.

Tests in 1949 at the college experiment station in Manhattan, and at the Belleville and Kingman fields, showed average seed loss from shattering and harvesting is 35 per cent, so C. O. Grandfield, of the K-State agronomy department, started work with chemicals in an effort to reduce the loss.

Conditions were about average at Kingman and Manhattan, ideal at Belleville, Grandfield recalls, when the tests were made in 1949. A strong wind rolled the windrowed alfalfa at Kingman and rain fell on it at Manhattan. Seed loss was 46 per cent at Kingman, 41 per cent at Manhattan, and 18 per cent at Belleville, an even 35 per cent average.

Reduce Seed Loss

It is this one-third seed loss K-State research workers are trying to eliminate or reduce by less handling of the vegetation. The money saved "won't be small potatoes," Grandfield said. Average Kansas alfalfa seed crop is 90 pounds an acre. If the third lost were added that would mean 135 pounds an acre. A one-third increase on the 10-year average Kansas crop of 205,000 bushels would bring 4 1/2 million dollars at 75 cents a pound for seed.

The problem in using pre-harvest sprays to cure alfalfa vegetation is to find something that will not kill the plant, retard the regrowth, injure seed germination or have a toxic effect on the soil. All that is wanted is some chemical to cure the tops so the crop can be combined without mowing and windrowing.

Chemicals the college has tried are promising, but Grandfield emphasizes more experimental work is needed to determine which chemicals are satisfactory, the concentration, and the gallons per acre. Chemicals being tested include Dow General, PCP, potassium cyanate, and Endothal. Application has been by power spray, but Grandfield thinks airplane spraying may be used on large acreages if low gallonage will be effective in curing.

Where to Spray

Tests indicate the spray method will be most successful where vegetative growth is not too heavy and is standing erect. Proper curing requires getting the spray deep into the plants. With a big, heavy crop that has lodged it is almost impossible to do this.

If the seed crop is good enough it might be practical to spray twice. The first, Grandfield points out, could kill the upper growth, the second the lower vegetation. Spraying should be done when the majority of the seed pods are cured. Harvesting can be done about 3 days after spraying, about the same time for the hay to cure in windrows.

Experimental results at K-State indicate also that 10 to 20 gallons of spray mixture per acre will be needed to cure the seed crop where the growth is not too heavy. Grandfield's experience is that a 40-pound pressure with a large nozzle will give good results. Putting the spray on in small drops rather than as a mist seems to do best.

Expansion of the experiment is planned for this summer when 8 or 10 one-acre plots scattered over the state will be sprayed and harvested with a combine as under field conditions. Studies also are being expanded at Kansas State and will be started at the Fort Hays branch agricultural experiment station.

How Much Will You Get for Wheat Crop?

(Continued from Page 6)

Scott continues, "It will be squarely up to country elevators to protect themselves when they buy wheat from farmers and to keep that wheat properly until shipped."

Robert Crawford, Kansas City, a representative of the Farmers Union Jobbing Association, and chairman of a wheat sanitation committee representing the grain trade in 6 states, says: "The new Food & Drug program is revolutionary and will give every wheat producer and wheat handler a headache until we get the sanitation problem licked. But, 5 years from now we'll all be glad it happened. Thirty years ago the grocer thought it would break him to put covers on all the food to keep off the flies. Now look how far stores have gone to keep food sanitary. The grain trade wants to co-operate in this cleanup. We must remember we are just starting today on a program that now is commonplace in the production of dairy and other food products."

Federal Pure Food & Drug officials have been quick to recognize and praise the attitude of the Kansas grain industry. During the last few months 1,200 grain elevator operators have

attended schools to study new regulations and to learn how to clean up their premises and keep them that way. All phases of the grain industry are co-operating with federal officials.

Kansas is indeed fortunate, too, in having the Kansas Wheat Quality Council, a group representing 28 agencies interested in the grain industry. These leaders have been concerned about Kansas wheat quality for several years and have been carrying on an extensive educational program among farmers. Now the council is giving full support to the new regulation.

The Kansas Wheat Improvement Association is doing an outstanding job of working with the council in gathering information and distributing educational material to help farmers meet the new requirements. It also has helped sponsor demonstrations on bin cleanup, bin spraying and wheat fumigation. Both resident and Extension staffs at Kansas State College have co-operated in every way possible and are still doing so.

R. I. Throckmorton, dean of the school of agriculture at Kansas State College, says: "It is obvious the farm

(Continued on Page 27)

COMING, NEXT ISSUE . . .

It doesn't take the fanciest equipment in the state to do the best job of dairying. Read in the July 5, 1952, issue of **Kansas Farmer** how one dairyman with only very modest buildings and equipment has consistently kept his dairy herd at the top.

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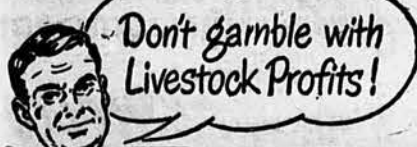


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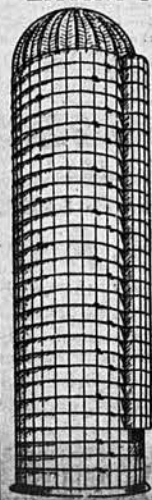
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producer will pay the bill if quality wheat is not put on the market."

Herman Praeger, state Farm Bureau president and chairman of the Kansas Wheat Quality Council, says: "Farmers must not lose their heads when harvest comes. There isn't enough commercial storage to handle our wheat, and if we get panicky and try to get it all on the market at once we will suffer price setbacks. Much of our wheat can be kept on farms and in good condition if we just take proper care of it."

Paul Griffith, assistant dean of Extension at Kansas State College and in charge of grain judging schools, says: "In years of large crops much of the wheat is often piled on the ground or kept in poorly prepared storage bins. Farmers will need to be extra careful from now on to protect wheat quality if they expect to get anywhere near full price for it."

Bin Your Wheat

But one thing everyone stresses is: Don't be afraid to bin your wheat. It can be kept in good condition.

There are several reasons for this assurance. One is there now is a protectant on the market that will largely prevent weevil damage to wheat if properly applied, even when moisture content is fairly high. It is called Pyrenone and cost of treatment is about 3 cents a bushel.

Pyrenone has been approved by the Pure Food and Drug Administration. During the summer and fall of 1951, Kansas State College entomology department made extensive tests of Pyrenone on Kansas farms.

Donald Wilbur, in charge of these tests, says: "The tests demonstrated Pyrenone treatment properly used prevented appreciable insect infestations during the first season of wheat storage. It should not be used to treat old wheat already infested." There are several fumigants on the market for treating infested wheat. Refer to page 8 of the May 17 Kansas Farmer.

How to Apply Protectant

A satisfactory method for treating new wheat with Pyrenone, says the college, is to apply the protectant over surface of wheat in the truck bed at rate of 75 pounds to 1,000 bushels, or 4½ pounds to a 50-bushel load. A small additional quantity of insecticide should be spread over surface of grain after bin is filled. Pyrenone also can be added in the combine bin before dumping, or when elevating grain into bin with an auger.

Entomologists in Kansas have proved almost any bin can be made safe if properly cleaned, repaired, sprayed and proper precautions taken against rats, birds and other sources of infestation or contamination. The trouble is, they say, that in surveys made in Central Kansas it was discovered two thirds of the farmers checked fail to treat bins before wheat is put in.

Some valuable tips on grain care as passed on by Kansas State College, are:

1. Don't fill bins too full as they are more difficult to inspect, sample or fumigate.
2. Large bins are less likely to heat than small bins.
3. If small metal bins are used it helps to paint outside white to reflect sun's rays and cut down heating.
4. Inspect grain frequently (monthly in hot weather) and treat immediately if infestation is discovered.



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Extra Protection against weeds: CHAMPLIN ESTER WEED KILLER E 40: To control weeds in wheat, oats, barley and other crops. Also in lawns, pastures! Economical!



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Behlen Mfg. Co., Dept. 10, Columbus, Neb.

No. 5 in a series on interesting facts
about Kansas crops . . .

THE STORY OF ALFALFA

By GORDON WEST

ALFALFA IS A NATIVE agricultural plant of Asia which proved so valuable it spread over the world to become the most extensively cultivated forage crop in the United States and many other countries. Humans have cultivated alfalfa longer than any other plant used solely for fodder.

Spanish explorers and settlers of the New World took alfalfa seed with them to Mexico and South America. Introduction in the United States came between 1850 and 1860, in California.

The Persians were among the first to grow alfalfa, and took seed with them when they invaded Greece, in 490 B.C. They used alfalfa as forage for their horses and cattle of their armies. The word "alfalfa" means "the best fodder."

Alfalfa hay production in the United States continues to increase. In 1919, the total harvested acres was 8,624,811 and in 1951, a total of 19,694,000 acres. The 1940-49 average production in acres was 15,304,000.

Kansas has been consistent in placing in the top 10 states in alfalfa hay production. In 1950 the state placed 6th, with 2,139,000 tons. The average of the 10-year period, 1940-49 for Kansas was 1,753,000 tons. In 1909, Kansas led in acreage and hay production, with 955,470 acres and 1,995,571 tons.

A great variety of uses for alfalfa has been found—as a soiling crop, livestock feed in silage and hay, honey crop for bees and pasturage. In South Africa, alfalfa was found to be an excellent and palatable vegetable. The edible part was the very tender shoot,



and was either eaten raw or cooked as spinach. Biologists there conducted some experiments with native workers in gold mines and found alfalfa shoots counteracted scurvy.

Flour and candy have been made from alfalfa. In 1947, at a meeting of the Kansas City section of the American Chemical Society, the head of the University of Kansas home economics department reported how flour was made from alfalfa. The leaves were ground and then finely powdered. Her experiments showed there were food values in alfalfa flour.

A rich grade of sirup can be made from alfalfa to aid in candy production. One year a report came out of food mills in Idaho and Montana which made 75 different sorts of candy from alfalfa.

Roots of the alfalfa plant are among the longest of any farm crop. Some roots have grown to a length of 50 feet. Another report was there have been alfalfa fields where in 50 years there was no lessening of the product.

The USDA Yearbook of Agriculture for 1950-51 comments on an ancient report written in 60 A.D.—"But of all the legumes, alfalfa is the best, because when once it is sown it lasts 10 years; because it can be mowed four times, and even six times, a year; because it improves the soil; because all lean cattle grow fat by feeding upon it . . ."

Brucellosis Tests Are on Increase

Percentage of infected cattle discovered by official brucellosis tests continues to decline in U. S. More herds are being tested.

For first half of current fiscal year, 326,315 herds were tested for brucellosis, reports the USDA, compared with 565,155 herds during entire fiscal year 1951. Also, 1,332,788 calves were vaccinated, compared with 2,542,333 calves during all of 1951. It is expected testing and calf vaccination will increase even more during next 6 months.

A trend over U. S. is increased use of the ABR or milk test for brucellosis. Milk from an entire herd is tested for evidence of disease, and if discovered, individual blood tests are made to determine which cattle are reactors.

Announcement Party

"Announcing the Engagement," is the title of our leaflet giving several ideas for such a party and includes menus. Write to Entertainment Editor, Kansas Farmer, Topeka, and enclose 3c for postage.

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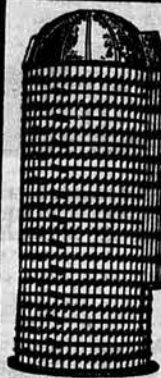


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4-H CLUB NEWS

THIS 4-H CLUB is remembering its members now in service by sending food packages and letters. Marilyn LeRoy, reporter of Walnut Valley Club in Barton county, says Bill Stoss wrote the club he received candy and cookies members sent him recently. Bill is now in Korea.

Officers for Anderson county 4-H Council for 1952 are Keith Lankard, Lucky 13 Club, president; Dale Boots, Tom Creek Hustlers, vice-president; Wilma Jean Bowman, Lucky 13, secretary-treasurer; Jayne Rue Wyatt, Silver Arrow, reporter; Kay Johnson, Bush City Boosters, song leader, and Donald McAfee, Silver Arrow leader, parliamentarian. Jayne Rue writes members of Silver Arrow Club assembled electric lamps at the Garnett church furniture factory, will sell them as a way to raise money for Rock Springs Ranch.

Ten years! Sunflower 4-H Club members in Harper county recently entertained their former leaders and members with a 10th anniversary party. The club has been an active one, has received many honors. There have been several years in which completion of projects by members was 100 per cent. Highest honor to a club—purple seal—has been awarded them.

Byron Reida (a national winner in 4-H farm and home electric program) told about his trip to national 4-H Club Congress at Chicago. He brought along many souvenirs of his trip for enjoyment of members and guests. Highlight of party was reading of club's history.

Melvin Hubbard is newly-elected president of Ash Creek Rustlers 4-H Club (Washington county) for 1952. Other officers installed recently are Murel Gauby, vice-president; Ila Gauby, secretary-treasurer, and Barbara Sloop, reporter. Leaders are Mr. and Mrs. Harry McNitt.

Large crowd attended the basket achievement supper at Jolly Workers 4-H Club Room, writes Bonnie Lohmann, reporter, Leavenworth county. Following supper, club held regular meeting and decided on 2 club projects—scrap metal drive and a paper drive. During the program members were entertained by a comedy film.

"Community projects are fun," writes David Nies, reporter for Tannerville 4-H Club in Pottawatomie county. This active club is doing a variety of things for the benefit of their community and young men in uniform. Drinking water has been tested, sewing class did sewing for the local hospital, and reading material was collected for Veterans' hospitals. Also, strips from coffee cans were collected so free coffee could be sent boys in the services.

Parents of 4-H members should know just what the club is doing, believe Busy Bee 4-H Club members, Washington county. Recently they held "Parents Night" at their 4-H building. There were project talks on beef, sewing, junior leadership. Conrad Stewart read a history of the club. Karen Waser talked on "Parents' Part in Clubwork." The remainder of the evening was spent in square dancing by young and old, followed by a watermelon feed.

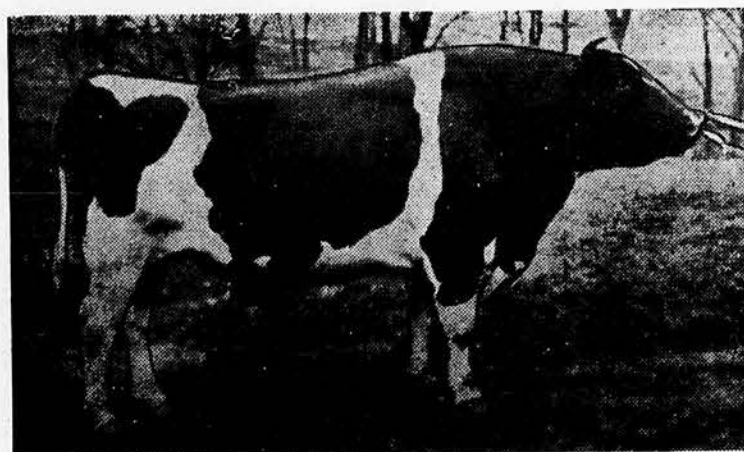
Paw Paw Lucky Clovers 4-H Club is the newest in Elk county. Recently, the Elk Rivers Ramblers Club helped install and start this new one. These are the officers: Ruth Bowser, president; Dale Chamberlain, vice-president; Keith Chamberlain, treasurer; Donna Chamberlain, secretary; Frances Crismas, reporter; Edith Carter, song leader; Myrna Bufflow, recreation leader; Gene Fox, music appreciation leader, and Robert Murphy, parliamentarian. Adult leaders are Mrs. Ira Highsmith and Alva Crismas.

Goal of an active Leavenworth county 4-H girl is to be an adult leader some day. Jean Shade, reporter of the newly-organized Green Promise Club, writes Barbara Schwinn, state leadership champion for 1951, helped to get her club started. The "state award climaxes her being a 4-H'er but she will continue to be a junior leader and hopes to be an adult leader in 4-H in the future."

Barbara, who won a trip to Chicago to the National 4-H Congress, has been a member 8 years, completing 34 projects. She has held all offices in her club, has been secretary of the county council 2 years. She also is reporter for the county Rural Life Association.

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Strout's Two Catalogs—World's largest. 52nd year. Farms, Homes, Businesses, 3648 bargains, East and Mid-West Green cover; West Coast edition Yellow. Either free. Strout Realty, 20-V West 5th St., Kansas City 6, Mo.

1,200 Acres Beautiful Pasture and grain land, mostly bottom; 800 acres open. 4 artesian wells; clear running stream. On paved highway; town 2 miles. Brick home. \$70 per acre. Terms. Gregg Hamilton, Maivern, Ark.

135-Acre Dairy or Stock Farm—Well improved. Good land, fences and water. Located main highway adjoining town. Priced right to sell. Edwin W. Price, Glasgow, Missouri.

Improved 640-Acre Farm, Cheyenne County, Colo. 234 acres under cultivation. 320 acres leased grass. Priced \$19,200. Louis Miller, Frankfort, Ind.

Good Homes in the Ozarks. Low taxes. Free lists. Owensby, Buffalo, Mo.

● OF INTEREST TO ALL

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

Boots and Shoes—Highgrade, fancy, handmade. Western style. Made to your measurement. Latest catalog. Crichton Boot Company, El Paso 8, Tex.

Concertinas—Accordions, new and used. Buying, trading. Norbert Gag, New Ulm, Minn.

July 5

Will Be Our Next Issue

Ads for the Classified and Livestock Section must be in our hands by

Friday, June 27

If your ad is late, send it in Special Delivery to 912 Kansas Ave. Kansas Farmer, Topeka, Kan.

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)

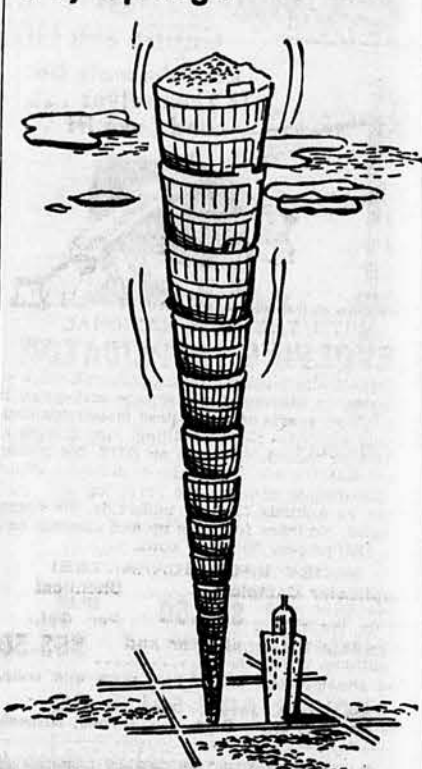
Mail your ad to

KANSAS FARMER

912 Kansas Avenue

Topeka, Kansas

Way Up High



Last year's Kansas wheat crop, if stacked bushel on bushel, would have been 126,113 times as high as the Empire State Building in New York City! If the 1952 estimate of 283,764,000 bushels is reached, it will be 283,764 times as high! The Empire State Building is 1,250 feet high.

Win Skelly

Achievement Award

W. G. Skelly national Agricultural Achievement Award for week ending May 24 went to John and Leona Keas, Effingham, in Atchison county. The award consists of a \$100 U. S. Savings Bond, gold lapel pin and scroll.

This outstanding farm couple have been 4-H leaders for many years, he for 20 years and she, 17. Registered Ayrshire cattle are the base around which the 80-acre Keas' farm moves. Last year, milk income totaled \$4,612, sale of cattle \$1,233 and eggs \$1,276. Most of the 80 acres are kept in pasture and alfalfa, and land is terraced with crops put in on contour with terraces. Mr. and Mrs. Keas are active in breed associations, church work, fair activities and educational work, principally 4-H. One daughter, Doris, is a junior student at Kansas State College, and Mrs. Roberta Decker lives at Burlington.

New Outbreak of Foot-and-Mouth

Another outbreak of foot-and-mouth disease has occurred in Canada. According to the U. S. Department of Agriculture, the disease was found about one mile outside the original quarantine zone, but well within the buffer zone set up by Canadian officials surrounding the quarantine area. The town of Ormiston, where latest outbreak came, is less than 50 miles from U. S. border.

Sporadic outbreaks are being expected and important thing is to identify the disease and act quickly to avoid spread, say USDA officials.

Most serious of livestock disease, foot-and-mouth can spread quickly and affect thousands of animals. Kansas Farmer issue of April 19, 1952, brought you a complete story on the disease, and recent Canadian outbreak.

That Unseen Enemy

Kill rats on your farm by using baits containing warfarin—effective chemical, which is tasteless and odorless. To know how to use warfarin, write us for a leaflet. Just address Farm Service Editor, Kansas Farmer, Topeka. Send 3c, please.

Dairy CATTLE

WE MUST Reduce Our Herd WILL SELL 30 HEAD REG. CATTLE

Dunlop and Rag Apple breeding cows, bred heifers, yearling heifers ready to breed and heifer calves.

Have a few choice young bulls from record dams ready for service this fall. Herd accredited for T.B. No Bang's for many years.

Our farm too limited in acreage to care for so large a herd.

All females of breeding age bred to Challenger, son of Brown's Markmaster a son of "Corine."

Dam of Challenger over 625 fat 2x milking. Average fat test 4.8 per cent.

Cattle may be seen any day at Whitehall Farm on N. Highway No. 50 adjoining Herington on the East.

MOTT & KANDT
Whitehall Holstein Farm
Herington, Kansas

HIGHER VIEW DAIRY FARM HOLSTEINS

Located 4 miles north of Hays, on highway 183. Featuring the bloodlines of Clyde Hill and the Crescent Beauties. We have 125 head in our herd. Serviceable-age bulls for sale at all times. We offer a few females occasionally. Visitors always welcome.

J. D. & E. E. FELLERS, Hays, Kan.

REG. HOLSTEIN BULLS

From calves to service age, out of good type and high record dams. Sired by Gold Medal Proven Bulls and sons of Gold Medal Proven Bulls. You will be surprised how little it takes to buy one.

GROVER G. MEYER & SON
Basehor, Kansas

A. Lewis Oswald
John C. Oswald

Rotherwood JERSEYS

Hutchinson, Kansas

LOCUST LEA AYRSHIRES

The most discriminating buyers can make selections from our herd at the present time. If you are looking for a herd sire, most any age you will find it here with preferred pedigrees and out of dams with high records. When you are in the market for Ayrshire breeding stock, don't fail to pay us a visit.

LOCUST LEA FARMS
Mr. and Mrs. John C. Keas

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

FOR SALE

Registered Guernsey heifers and bulls.
Hershberger & Sons
Newton, Kansas

Dual-Purpose CATTLE

REG. MILKING SHORTHORNS

2 to 24 months old bulls and some bred heifers of good bloodlines. Priced reasonable. Wiley Fortner

BLUE MEADOWS FARM, Rt. 2, Fredonia, Kan.

HOGS

REG. SPOTTED POLAND CHINAS

Choice spring boars & gilts with plenty of length, deep sides, deep full hams. Sired by Kansas Model and Majestic Duke. New bloodlines and unrelated pairs. Double immune. 4 1/2 miles North.

J. V. CUNDIFF & SONS, TALMAGE, KANSAS

AUCTIONEERS

HAROLD TONN

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

BERT POWELL

AUCTIONEER
LIVESTOCK AND REAL ESTATE
1529 Plaza Avenue
Topeka, Kan.



In the Field

MIKE WILSON
TOPEKA, KANSAS
Livestock Editor

Nemaha Royal Marie Ormsby, registered Holstein-Friesian cow owned by HARRY C. M. BURGER, Seneca, has completed a 365-day production test with The Holstein-Friesian Association of America. Her production was 759 pounds butterfat and 21,025 pounds milk. She was milked 2 times daily and was 4 years 10 months when she began her testing period. Her record averages about 27 quarts of milk daily for the period.

Betty's Beauty of C. D., owned by J. L. NELSON, Cedar Drive Farm, Wichita, produced 9,821 pounds of milk and 486 pounds of butterfat. This is according to the official Herd Improvement Registry record released by the American Guernsey Cattle Club. "Beauty" was a junior 2-year-old and was milked for 309 days. "Beauty" is the daughter of the registered Guernsey sire, Lookout Valley Superb Beacon, that has 3 daughters in the Performance Register of the club.

Word comes from the O'BRYAN RANCH at Hiattville, famous for its Polled Herefords, that they have recently sold 100 heifers to Kenneth McNabb, Bolcourt. Most of these heifers carry the service of O'Bryan herd bulls. This is an addition to 52 heifers already purchased from the O'Bryan Ranch at their last auction sale. Mr. McNabb has recently purchased a new herd sire from Senatobia, Miss., for \$5,200. This recent transaction is just one of the various sales made by O'Bryan Ranch.

A registered Guernsey cow, Shamrock Farms Patsy, owned by NORMAN K. NELSON, Cedar Drive Farm, Wichita, produced 13,929 pounds of milk and 565 pounds of butterfat. This is according to the official Herd Improvement Registry record released by The American Guernsey Cattle Club. "Patsy" was a 5-year-old and was milked for 305 days. "Patsy" is the daughter of the registered Guernsey sire, Meadowlark Laddie Boy, that has 4 daughters in the Performance Register of the club.

Forty-six lots of Polled Herefords recently sold at the VIC ROTH POLLED HEREFORD CATTLE AUCTION totaled \$30,105. Fifteen bulls sold for an average of \$643 and 31 females averaged \$660 to make a general average of \$655 for the 46 lots sold. A top of \$1,300 was reached on 3E Pawnee Girl 16, on the bid of Mecca Ranch, Ft. Collins, Colo. Second top female was purchased by John Luft, LaCrosse, at \$1,250. Top-selling bull was Captain Domino 14th. He was sold to Brungardt, Hays, for \$1,225. John Luft was a guest consignee. Freddie Chandler was auctioneer.

ELKNIH FARMS, Powhattan, recently made a production sale of Milking Shorthorns at the Hiawatha Sale Pavilion, in Hiawatha. Due to the fact weather was perfect and most farmers were in the field, attendance was cut. However, a number of breeders and farmers assembled to take part in this event. Cattle were presented in their every day working clothes, many of them quite young; they sold from \$440 down. Gus Heidebrecht, Inman, was auctioneer. Elkni Farms is operated by Delaine Hinkle, Powhattan. Delaine is one of the younger men in the Milking Shorthorn business, and is certainly doing a fine job.

E. D. HERSHBERGER, Hershberger's Guernsey Dairy, Newton, is the owner of 3 registered Guernseys that have recently completed Herd Improvement Registry production records with The American Guernsey Cattle Club.

Chelsea's Lulu of North Home, 5-year-old, produced 8,518 pounds of milk and 457 pounds butterfat on 311-day milking. Hershberger Ferdinand's Freda, junior 2-year-old, produced 8,690 pounds of milk and 469 pounds of butterfat having been milked 365 days. Hershberger Laddie's Goldie, junior 3-year-old, produced 8,087 pounds of milk and 513 pounds butterfat, was milked 352 days.

THE 70TH ANNIVERSARY NATIONAL DUROC CONGRESS will be August 1 and 2 at Indianapolis, Ind. Entries are pouring into office of the United Duroc Record Association at Peoria, Ill., indicate 1952 Congress will hit an all-time high. The program will emphasize modern-type Durocs with breeding animals and barrows serving as models for judging and discussion. Carcasses will be displayed to show correlation between live hogs used on program and its carcass. There will be a free barbecue and a baked foods demonstration. There will be \$4,000 in premium money. Most of the activities will take place at the Indiana State Fairgrounds.

The NORTHEAST KANSAS MILKING SHORTHORN SOCIETY urges all breeders of this association and their friends to come spend Sunday, July 20, at the Minor Stallard farm, at Onaga, for a basket dinner and field day. The Northeast Kansas Breeders are a rather small society, but are a very ambitious group of people. In the last year the Milking Shorthorn societies over the state and the nation have increased in enthusiasm, are promoting the breed fully. Apparently there is a great future for the Milking Shorthorn breeders according to records and data from the National Milking Shorthorn Society offices at Springfield, Mo.

The EAST CENTRAL KANSAS HOLSTEIN BREEDERS held their annual spring sale, May 23 at Tonganoxie. Fifty-seven head of registered Holsteins were sold. Five bulls, which were all of short age, averaged \$300 per head. Fifty-two head of females sold for an average of \$402. The Kansas State Prison farm at Lansing consigned the top-selling bull at \$405. This bull was purchased by Vincent Mannino, Leavenworth. The State Penitentiary was also the consignee of the top-selling female, going for \$625 to Carl Mannino, Leavenworth. Prices received for this splendid offering were considered very good due to the fact that more than 50 per cent of the entire offering being under 2 years old. Grover G. Meyer, Basehor, managed the sale. Col. Charles Cole, Wellington, did a splendid job of selling, assisted by Raymond Zimmerman and representatives of the livestock press.

Public Sales of Livestock

Aberdeen-Angus Cattle

October 22—Blackpost Ranch, Olathe, Kan.
October 29—Kansas Breeders' Association Sale, Hutchinson, Kan. Don Good, Sale Manager, Manhattan, Kan.
December 8—Annual Commercial and Purebred Sale, Dodge City, Kan. Chester I. Bare, Sale Manager, Protection, Kan.

Brown Swiss Cattle

October 15—Tri-State Brown Swiss Association, Topeka, Kan. Ross Zimmerman, Sale secretary, Abbyville, Kan.

Hereford Cattle

September 3—Chas. and Mary Cordell Dixon, Leon, Kan.
September 5—Lull Hereford Farms, Smith Center, Kan.
September 11, 12 and 13—L. L. Jones & Son Dispersion, Garden City, Kan.
September 16—Clyde E. Holman Registered Hereford Herd Reduction Sale, Richmond, Mo.
September 17—Forrest Booth, Wellsville, Kan. Sale at Ottawa, Kan.
September 18—Fritz Kerbs & Sons, Otis, Kan.
September 27—O'Bryan Ranch Annual 4-H and Hereford Calf Sale, Hiattville, Kan.
October 2—Wendell Interhill, Mankato, Kan.
October 3—Frazier Hereford Farm Production Sale, St. Joe, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.
October 6—Hiland Stock Farms, Superior, Nebr. Melvin Schlemmer, Owner.
October 6—Beeks-Cleland, Baldwin, Kan.
October 9—Jim Riffel, Junction City, Kan.
October 9—Heck Herefords, Lawrence, Kan.
October 10—Belly Acres Ranch, Paxico, Kan.
October 18—C.K. Ranch, Brookville, Kan.
October 21—Twin Oak Farm, Moundridge, Kan.
October 25—Belden & Scheutz, Horton, Kan.
October 27—John W. Spencer, Straight Creek Farms, Whiting, Kan. Sale at Marysville, Kan.
October 28—O'Bryan Ranch Annual Polled Hereford Sale, Hiattville, Kan.
October 30—Flint Hills Association, Cottonwood Falls, Kan.
October 31—Ely Hereford Ranch, Attica, Kan.
November 1—4-K Sale, Hutchinson, Kan.
November 6—Lincoln County, Sylvan Grove, Kan.
November 7—Cowley County Hereford Breeders' Association Sale, Arkansas City, Kan. Charles H. Cloud, Sale Manager, Winfield, Kan.
November 11—Tonn & Fishburn, Haven, Kan.
November 11—Solomon Valley Hereford Sale, Osborne, Kan.
November 12—Central Kansas Polled Hereford Sale, Herington, Kan.
November 14—Premier Hereford Farm, Piper, Kan.
November 18 and 19—Sunflower Futurity, Hutchinson, Kan.
November 21—Golden Willow Polled Hereford Sale, Pittsburg, Kan.
November 24—Sumner County Hereford Breeders' Association Sale, Wellington, Kan. Paul M. Philippi, Secretary-Treasurer, Argonia, Kan.
November 25—Fred Matheson, Natoma, Kan., and Jake Reich & Son, Paradise, Kan. Sale at Natoma.
December 5—South Central Kansas Hereford Association, Newton, Kan. Phil H. Adrain, Sale Manager, Moundridge, Kan.
December 6—A. R. Schlickau & Sons, Haven, Kan.
December 10—B-K Herefords, Longford, Kan. Sale at Minneapolis, Kan.

Polled Hereford Cattle

September 20—Ducy & Kilmer, sale at Hebron, Nebr.
October 20—Cowgill Polled Hereford Ranch, Milan, Mo.
November 14—Mid-West Polled Hereford Association Show & Sale, Deshler, Nebr. Fred C. Ducy, Manager, Chester, Nebr.

Holstein Cattle

October 8—Kansas State Holstein Association Sale, Herington, Kan. R. L. Evans, Hutchinson, Kan. Chairman State Sale Committee.
October 23—Central Kansas Breeders Fall Consignment Sale, Hutchinson, Kan. T. Hobart McVey, Sale Manager, Nickerson, Kan.
October 27—North Central Kansas Holstein Sale, Washington, Kan. Earl N. Phillips, Chairman, Manhattan, Kan.
October 29—Nebraska State Holstein Association Sale, Lincoln, Nebr. Robt. Koehler, Fremont, Secretary, T. Hobart McVey, Sale Manager, Nickerson, Kan.

Jersey Cattle

September 1—Missouri Jersey Cattle Club, St. Joseph, Mo. Ivan N. Gates, Sales Manager, West Liberty, Iowa.

Shorthorn Cattle

August 26—Earl E. Stoffer, Abilene, Kan.
October 31—Mid-Kansas Shorthorn Breeders Show and Sale, Salina, Kan. Mervin Aegerter, Sale Manager, Seward, Nebr.
November 6—State Polled Shorthorn Sale, Hutchinson, Kan.
November 7—State Shorthorn Sale, Hutchinson, Kan.

Poland China Hogs

October 20—C. R. Rowe & Sons, Scranton, Kan.

Sheep (all breeds)

June 27 and 28—Midwest Stud Ram Show and Sale, Sedalia, Mo. Rollo E. Singleton, Sales Manager, Jefferson City, Mo.

TREND OF THE MARKETS

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

	Week Ago	Month Ago	Year Ago
Fed Steers	\$33.75	\$35.25	\$37.75
Hogs	21.00	21.25	22.50
Lamb	30.75	31.25	34.00
Hens, 4 to 5 lbs. ....	.20	.18	.27
Eggs, Standards .....	.33 1/2	.31 1/2	.45
Butterfat, No. 1 .....	.61	.65	.65
Wheat, No. 2, Hard	2.44 1/2	2.49	2.39
Corn, No. 2, Yellow	1.93 1/2	1.91 1/2	1.76
Oats, No. 2, White .....	.92 1/2	.91	.94
Barley, No. 2	1.29	1.32	1.39
Alfalfa, No. 1	35.00	35.00	35.50
Prairie, No. 1	25.00	25.00	19.50

Beef CATTLE

8-year experiment shows Angus calves average 66 LBS. MORE AT WEANING

In 8 continuous years of comparison by a leading state university between two major beef breeds involving 374 calves ... ANGUS purebred calves outweighed purebred calves of the other breed by 66 lbs. average at weaning time. Since all calves were fed and handled the same, this accurate experiment proves: "Angus calves grow faster!" Be ahead! Buy Blacks! Wean bigger calves!

American Aberdeen-Angus Breeders' Ass'n
Chicago 9, Illinois

Sunflower Farms ANGUS



Herd Sires:

Ever Prince Revolution 2nd
Homeplace Elleenmere 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

REG. ANGUS Cows and Heifers for sale. Bred to or sired by Tri R Prince Eric a good breeding grandson of Prince Eric of Sunbeam.
CHESTNUT & RAILBACK, Quinter, Kansas

20 Polled Hereford Bulls



Sired by polled sons
of C. K. Cadet

Bloodlines intensely polled from 40 years of constructive breeding. 12 months to serviceable-age bulls offered. Priced reasonably.

GOERNANDT BROS.
Ames (near Concordia), Kansas

Polled Hereford Bulls

Good year-old bulls for sale. Sired by P.V.F. Advance Worth. \$3,500.
LESTER H. KOLTERMAN, Onaga, Kansas

Featuring these top herd sires.

CK CRUSTY 70TH

bred by CK Ranch, Brookville, half-brother to 1951 American Royal Champion.

CK ROYAL DUKE 3RD

bred by CK Ranch

P. ROYAL DUKE 7TH

bred by Parcel Herefords, Coldwater, grand champion bull at the 1948 Kansas State Sale. A number of his heifers are being retained in the herd.

Visitors are welcome to see the Get and Service of these bulls.

STRAIGHT CREEK FARMS, Whiting, Kan.
JOHN W. SPENCER, Owner

REG. HEREFORD BULLS

10 to 18 months old. Sired by: OJR Jupiter Star 12th, Domino Lad KTO 111th and F. Elation 22. Top range and herd bull prospects.

WAITE BROS., Winfield, Kansas

REG. HEREFORD BULLS

12 to 18 months old. Sired by Domestic Lamp-lighter 46th and Anxiety Mixer. Top range and herd bull prospects.

OSCAR GIDEON, Emmett, Kansas

BEEF CATTLE

POLLED SHORTHORN—For Sale both Bulls and Females. Well bred, properly marked and good individuals. Bang's vaccinated. Ready to go out and do good for their new owners. Come see our herd before you buy.

HARRY BIRD & SONS, Albert, Kansas

SCOTCH SHORTHORNS

Bulls for sale: Dark roan and reds. 8 to 16 months old. You will like the calves by our Tri-State Champion M V Prince Peter 15th. Watch for them at the fall fairs.

GLENN E. LACY & SON, Miltonvale, Kan.

**When Writing Advertisers
Mention
KANSAS FARMER**

Your Choice of Our Best HAMPSHIRE

Some 30 head of growthy, thick, close to the ground, registered yearlings. The best of bloodlines for commercial or purebred flocks, 25th year.

DRUMM FARM, Independence, Missouri
Rt. 4, 12 Miles East of Kansas City Stockyards



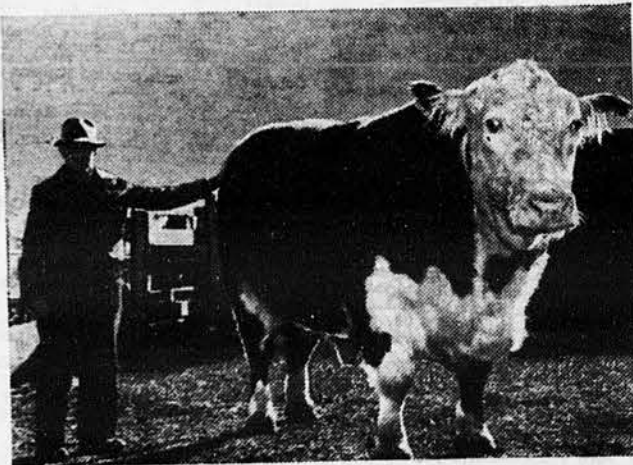
FARM NEWS GRAPHIC

THEY LIKE FRIENDLY SERVICE!



Skippy inspects a basket of prize soy beans grown by Chester Biddle of Remington, Indiana. Mr. Biddle, known nationally as a soy bean specialist, has found that it takes the best in seed to grow prize beans. About 14 years ago he changed to RED CROWN Gasoline because he was having trouble with his tractor engine. He has had no trouble since and says that using RED CROWN Gasoline reduces his maintenance costs and gives him the greatest power yield per gallon. He especially likes the friendly delivery service he gets from his Standard Oil agent who has come through in emergencies after dark and on holidays with supplies to keep the big Biddle farm running.

Ton and a half of beef! John Althaus of Sublette, Illinois, is shown here with his Hereford steer, "Jumbo," which weighs a monumental 3,000 pounds and then some! With "Jumbo" and other big jobs to handle, Mr. Althaus has found that smooth-running, dependable Standard Oil products have helped to make his job easier. He's been a 100% user of Standard products for 22 years. As he says, "Every fill of gasoline I buy is of the same uniform quality." That's one of the reasons he has had trouble-free operation of his mechanized equipment. PERMALUBE Motor Oil is Mr. Althaus' choice in his tractor, truck, and car.



Big family and big farm! Keeping fifteen pieces of power farm equipment in shape to farm 2,200 acres is no easy job. Howard Reimers of Dalton, Nebraska, who's shown at left with his family, relies on Standard Oil products to do the big job efficiently. He uses RED CROWN Gasoline because it gives "plenty of power." PERMALUBE is his choice of motor oil. As he says, "It keeps the motor clean." His friendly Standard Agent, Alexander Flohr, keeps Mr. Reimers' tanks always filled up, ready to go. That's the same high-quality service you can expect when you call your Standard Oil man.



News and Notes FOR JUNE

What reasons do farmers give for doing business with a particular oil company? When we asked our customers, here's what most of them said: (1) quality products (2) dependable delivery (3) friendly service. If you're not getting all this . . . and more . . . it's time you changed to Standard. Call your Standard Oil Man today!

The 1,111 counties in the Midwest where Standard Oil products are sold are served by over 6,000 Standard Oil Agents and drivers . . . an



average of nearly six agents to every county. No wonder that dependable delivery is one of the reasons why our customers do business with us. This ratio of 6 to 1

means just this: You get the supplies you need when you need them, even in emergencies, because there's a Standard Oil Agent near you.

It's mighty important to keep your oil storage drums under cover. And, keep the bungs drawn up tight. This will help prevent condensation and the formation of water inside the drums as temperatures change.

1,223 gallons of fuel and 26 gallons of motor oil . . . that's what the average tractor uses each year. Ask your Standard Oil Man how to improve your own average. He has lots of tips on economical tractor operation.

Fuel oil in your tank is like money in the bank! Fill your tank now with STANDARD Heater Oil or STANOLEX Furnace Oil and be



sure of heat when you need it. You'll be ready to go when chilly Fall days come. By keeping your tank full, you'll eliminate worry about condensation and

contamination of your fuel oil. Ask your Standard Oil Man for a "summer fill" next time he stops by!

Haying time is one time when you don't want anything to interrupt the smooth, reliable running of your tractor. To insure trouble-free operation, more farmers depend on PERMALUBE Heavy-Duty Motor Oil than on any other! Order PERMALUBE today!

Your
Standard
Oil Man

