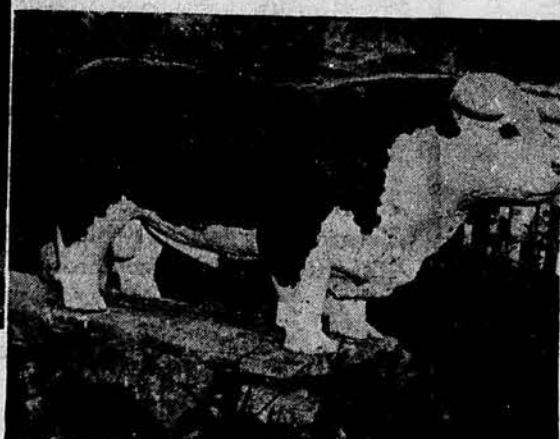


Kansas Farmer



PUREBRED CATTLE breeders are keeping Mrs. Walter O'Neill, Riley county, busy making concrete models, a hobby she started 5 years ago. This one is to be shipped to a Missouri breeder.



HER FIRST ATTEMPT at concrete modeling is this Hereford bull, which stands in the O'Neill front yard. Since it was made Mrs. O'Neill has greatly improved her technique and has shipped her models to nearly every state.

Here's a Hobby That's Profitable

... Mrs. O'Neill's unusual Herefords have been sent to most every state in the U. S. Now, *Kansas Farmer* would like to hear about your hobby

IF YOU paid her a fancy figure, Mrs. Walter O'Neill, of Riley county, couldn't draw a picture of one of the 300 Herefords on the O'Neill Ranch. But give her a batch of concrete, a few iron pipes, some paint, and she will mold and paint you a model that will look real enough to pet.

In fact, over about 5 years, Mrs. O'Neill has become so expert in making Hereford bulls come into being thru concrete sculpture, samples of her art have been ordered by breeders in nearly every state to help them advertise their breed. Folks [Continued on Page 2]



TWO OF MRS. O'NEILL'S Hereford bull models decorate the front stoop of Lee Hereford Ranch house, near St. George. Breeders find these attractive models do a good job of advertising their cattle.

- **Here's What Happened in 1951.....Page 4**
- **Board of Agriculture Meets.....Page 8**
- **What's Ahead in 1952.....Page 10**

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**This Iowa Farmer Says—
"WHERE OTHER TIRES HANG UP**



"I farm 210 acres of black loam, and for the kind of soil conditions I have, I like these Firestone Champions best. When the ground is hard, they bite in and take a good hold—and when it's soft, they take me through where other tires hang up."

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MORE AND MORE farmers are switching to Firestone Champion Open Center Tires—and glad of it! They find that the bars take a sharper bite because they're tapered, take a stronger hold because they're curved. And, because the tread of this tire is wider and flatter, it has more bar rubber to grip the soil for extra traction, more bar rubber to stand up on the road for extra traction life.

Try a set of Firestone Champion Open Centers on your tractor. Or, if you prefer Firestone Champion Traction Center Tires for your soil conditions, you can get them, too. Only Firestone offers you a choice between the most advanced Open Center and the one and only Traction Center Tire on the market today.



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of the First Practical Pneumatic Tractor Tire**

Enjoy the Voice of Firestone on radio or television every Monday evening over NBC

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Here's a Hobby

(Continued from Page 1)

drive miles to the O'Neill Ranch to her work, and stay to admire the live purebred Herefords raised on ranch.

It all started when Mrs. O'Neill noticed hobby shops never carried small models of farm animals. "There is something beautiful and majestic about Hereford bull," says Mrs. O'Neill. I thought it would be nice to buy a small model of one—but I could not find them. Finally, I decided to try luck with plaster of Paris and some paint."

First Trial Not Good

Her first models didn't turn out well, Mrs. O'Neill recalls. "Plaster of Paris isn't very good to work with," adds. Then she turned to concrete medium and built a large model that still stands on a rock base in the yard. "I used real horns and tail on my first concrete model," says Mrs. O'Neill, "but found they don't last well, especially when there are children around."

Now Mrs. O'Neill uses nothing but concrete and outside porch enamel, of course, some iron pipes on which to mold the legs. Using a knife, she carves concrete scallops on the body which, when painted, look exactly like curled hair of a prize bull ready for the show ring.

And the amazing part is she does not use a form or mold in making models. "I just start by making the body upside down until I get the shape formed," she says. "Then I turn the model over and add and carve until I get the right size and proportion."

Desk-size models are the most popular, Mrs. O'Neill finds, and folks willing to pay her \$10 apiece for the small ones. At the time we called Mrs. O'Neill she was making a large Angus bull model 3 feet and 4 inches high at the forehead, and for which Missouri Angus breeder was paid her \$75. She also had Hereford models ready to ship to a New Mexico breeder and to the Hereford Association office, in Kansas City.

A Spare Time Job

How long does it take to make a concrete bull statue? Mrs. O'Neill doesn't really know. "I just work on the project in my spare time and never keep track of time," she says.

Once Mrs. O'Neill had an idea that backfired. The O'Neills have a high sign advertising their Hereford cattle. "I thought it would be a good idea," says Mrs. O'Neill, "to model a Hereford head and bolt it to the sign to make the sign more attractive. It worked too well, as someone stole the head the first night."

Altogether Mrs. O'Neill has made about 70 statues of various sizes during the 4 or 5 years she has been interested in sculpture as a hobby. Her art is so unusual that she has to be careful she isn't spending all her time keeping up with the demand for work.

Speed Shoveling

Heat snow shovel and rub paraffin wax over top and bottom surfaces to keep snow from sticking. One waxing lasts for some time.—R. E. L.

KANSAS FARMER

Continuing Mail & Breeze

121-123 West 8th St.

Topeka, Kansas

Vol. 89, No. 1

ARTHUR CAPPER	Publisher (1895)
H. S. BLAKE	General Manager
Raymond H. Gilkeson	
Dick Mann	Associate
Gordon West	Associate
Mike Burns	Associate
Florence McKinney	Women's
Dr. C. H. Lerrigo	Medical Department
Mike Wilson	Livestock
J. M. Parks	Protective
Roy R. Moore	Advertising
A. E. Carson	Circulation Manager

Member: Audit Bureau of Circulations; Agricultural Publishers Association; National Association of Magazine Publishers.

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

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

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When plowing is tough, Farmall Super C tractor **pull-power** really saves you time and money. That's because the Super C's ideal power-weight ratio gives you **sure-pull traction** to do more work. The **lugging power** of the Super C's thrifty valve-in-head engine keeps the slow moving steadily ahead.

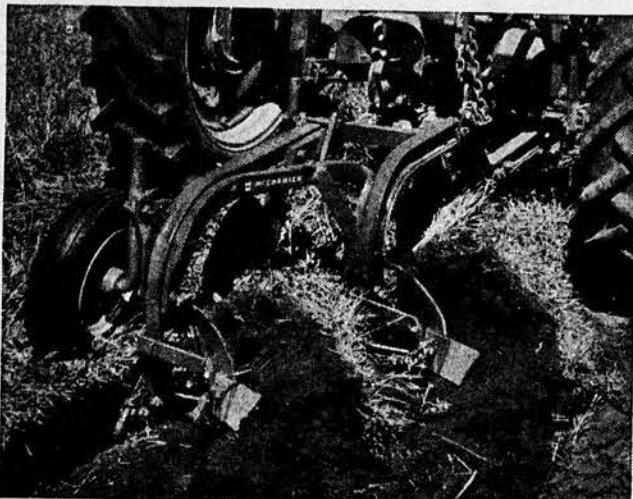
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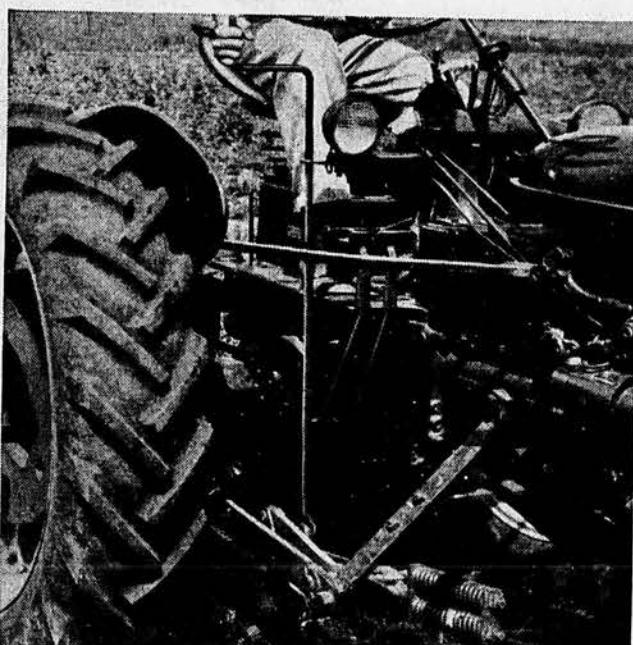
Find out for yourself, on your farm, how you can do better plowing at low cost this spring . . . with the Farmall Super C and McCormick 2-furrow, direct-connected No. C-295-A plow with Plow Chief bottoms. Plow 8 to 10 acres a day . . . up to 8 inches deep.



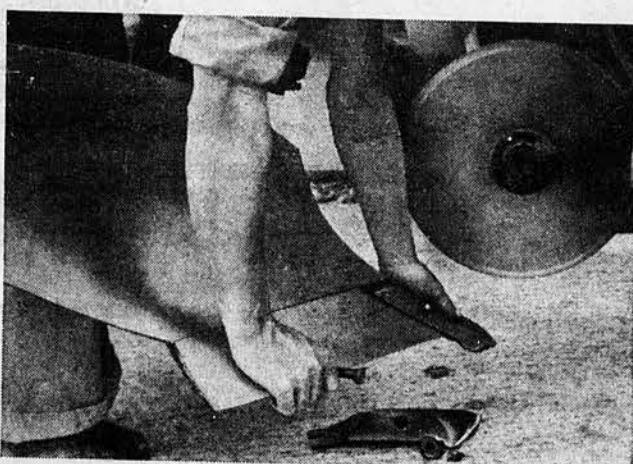
Be ready for your big crop year ahead. See your International Harvester dealer about delivering a McCormick Farmall Super C and the size and type of McCormick plow that's right for you and your acres. You'll start the best seedbed you've ever had to help you **PRODUCE MORE**.



You do quality plowing. You can plow rough land evenly on contour or straightaway, cover trash better, back into corners for a more thorough and *complete* job of plowing with the McCormick direct-connected plow. The close-coupled plow follows the natural line of draft. You can change the plowing depth instantly, by merely moving the hydraulic Touch-Control lever forward or back.



Easy to level . . . right from the tractor seat. Use the convenient hand crank, either standing still or on the go. It's easy to adjust the plow — when you're plowing on the contour, opening up a field, coming back on the second furrow, or finishing dead furrows.



End share sharpening forever . . . save money, too . . . with easy-to-change Spearhead points on the Plow Chief bottoms of your McCormick plow. Repoint your plow in five minutes or less. Plow Chief bottoms, with Spearhead points, go down fast, and *stay down*, give good trash coverage at *ALL* plowing speeds.

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

Here's What Happened . . .

Back in 1951



Kansas Farmer presents highlights of the past year, events that affected every farm family in the state. Maybe you would like to keep this article for future reference

AFTER one of the toughest years of farming on record so far as weather was concerned, Kansas farmers came out on top again in 1951. But the gap between costs and selling prices became smaller as the year progressed.

Gross cash income for the first 8 months of the year was up 2 per cent over 1950. Livestock receipts were up 27 per cent but crop receipts were down 27 per cent. Only the larger volume of livestock and livestock products kept farmers from showing a loss in 1951.

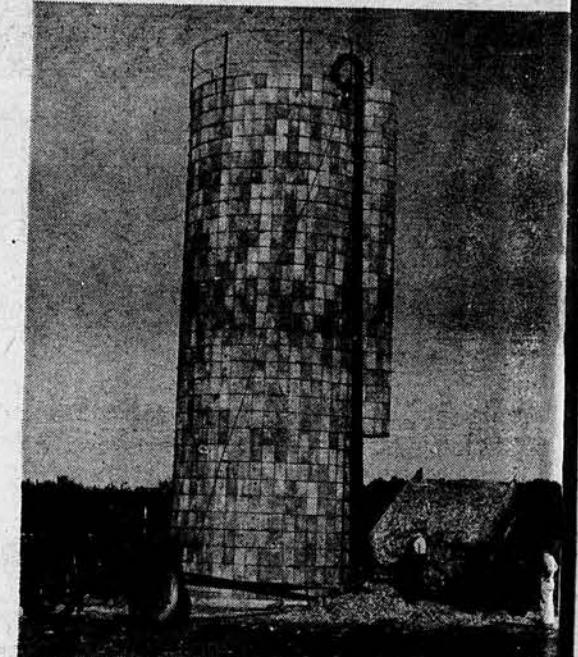
No crop records were set during the year, except for hay. But, despite adverse weather, you Kansas farmers produced during the year 58,296,000 bushels of corn, 126,113,000 bushels of wheat, 14,346,000 bushels of oats, 57,310,000 bushels of sorghums, 5,814,000 bushels of soybeans. The alfalfa crop was 2,118,000 tons while all hay totaled 3,467,000 tons for a new record.

Milk production per cow took a small drop but Kansas dairy cows produced a total of 2,701,000,000 pounds of milk during the year. Kansas hens produced 1,756,000,000 eggs. Kansas hatcheries produced 36,464,000 chicks for the first 10 months of the year, a total above that of 1950.

There were 10 per cent more cattle and calves on Kansas bluestem pastures than in 1950, and pasture conditions during the season were generally good.

More lambs are being fed in Kansas this winter, and demand for both feeder lambs and breeding ewes was good during 1951. Very little wheat pasture for lambs was available during the fall.

Number of cattle on feed in Kansas this winter is as large as 1950, and there seems to be an abundant supply of feed.



MORE AND MORE farmers, especially in Western Kansas, erected new silos in 1951 to store valuable feed produced during the year.

Probably the 2 most important farm news events during 1951 were the July floods and their resultant damage, and the official separation of Farm Bureau and Extension service.

Floods alone during 1951 caused Kansas farmers an estimated damage of 78 million dollars. Rains, hail and wind combined caused a total farm loss of 192 million.

Following the floods, farmers and town folk divided into opposing groups on how floods should be controlled, their beliefs depending on whether they lived above or below proposed reservoirs. Several watershed groups were formed, then joined into a state organization. Army engineers made another survey of Kansas watersheds and came up with a new plan calling for 22 more reservoirs and 5 more levee projects than previously considered necessary. All this, they said, will cost an extra 250 to 275 million dollars. Some progress was made during the year, mainly at a conference held by Kansas State College, to get extremists of both sides in the flood-control fight closer together on some kind of a modified program that will incorporate the best points of both sides.

During the year USDA held a farm-policy review with no startling developments as a result. More than 80 counties in Kansas succeeded during the year in [Continued on Page 24]



A NEW RECORD hay crop was produced in Kansas during the year, with a total of 3,467,000 tons being estimated.



ALTHO THE SORGHUM crop in Kansas was good one—57,310,000 bushels—many farmers, like this one, found the crop had lodged badly. It was just another tough problem farmers had to lick during the year.

BOTH EWES and feeder lambs were in good demand during 1951. Kansas farmers who had ewe flocks established were in very favorable position during the year.

Farm Matters

AS I SEE THEM

AMERICAN agriculture lost one of its greatest leaders with the death of Senator Arthur Capper, December 19, 1951, at the age of 86. His valiant, never-failing support of farm interests thru his 58 years as publisher, 4 years as governor of Kansas, and 30 years as United States Senator have established an unmatched record of service to farm people.

Known and deeply respected throughout the Nation as "Capper of Kansas," loved sincerely by farm people in his home state who knew he was "for them first and always," as he said so often, Senator Capper's countless contributions to the progress and well-being of agriculture are attested by heartfelt tribute from official Washington and Kansas farm, from the Nation's top business executives and laborers who man our wide-flung industries, from the great and the humble.

Backed Important Farm Bills

Looking into his record you will find many pieces of major agricultural legislation that had his backing. Familiar to farm people are these 5 acts which bear his name:

The Capper-Volstead Act of 1922, referred to as the "Magna Charta" of Farmer Co-operatives in the United States, extending federal recognition to farmer co-operatives, and exempting Co-operative Agricultural Associations from the anti-trust provisions of the Sherman and Clayton anti-trust acts.

The Capper-Volstead Act of 1926, clarifying some language in the original act and definitely including Farmer Co-operative Marketing Associations in the exemption from the anti-trust laws.

The Capper-Tincher Act of 1922 providing first federal regulation of futures trading on the grain exchanges; later expanded to include futures trading in other commodities; foundation of the present Commodity Exchange Commission Act.

The Capper-Lenroot-Anderson Agricultural Credits Act of 1923, foundation for later legislation providing for the Banks for Co-operatives, Producers Credit Association, and other lending agencies in the field of agricultural credits.

The Capper-Ketcham Act of 1928, authorizing permanent appropriations for Agricultural Extension work, specifically including appropriations for 4-H Club work.

Authority on Farm Picture

No man in public life was closer to farmers or knew better what they were thinking and needing than Senator Capper. Thru his farm publications, his visits with farm people all over Kansas, and thousands of letters from farmers throughout the entire United States, he was an undisputed authority on the whole farm picture.

Always especially eager to help young folks, Senator Capper found deep satisfaction in sponsoring farm youth clubs—pig, calf 'and poultry clubs. His purpose was to help teach farm boys and girls the responsibilities of good citizenship and individual thrift and initiative. He would lend them money on their unsecured notes to purchase their club livestock. They were required to keep accurate records on their projects and pay back their loans so other boys and girls also could have the same chance for a start with livestock.

In all, Senator Capper lent more than \$100,000 in this program and lost a very small per cent. Not once did a farm boy or girl break the pledge to Arthur Capper to repay his loan. Extreme bad luck in a few cases made it impossible to pay some loans. Those boys and girls were given another chance. Today as successful Kansas

farmers, these and the many other former Capper Club members, hold in their hearts a deep respect for a kindly publisher who had faith in them. Many of them credit the Capper Clubs with giving them their start in purebred livestock production.

Strong 4-H Club Supporter

With growth of 4-H Clubs, Senator Capper decided to disband his farm clubs and lend his full support to this great and growing organization. As a result, thru *Kansas Farmer*, he has made numerous awards to 4-H winners—scholarships, trips, gold watches to farm safety winners, livestock-judging awards.

He became a member of the National Committee on Boys' and Girls' Club Work when it was formed in 1919. And as you all know, in the Senate he sponsored legislation making 4-H Club work an integral part of the Extension program of state agricultural colleges. In 1928, he was co-author of the Capper-Ketcham Act which provided permanent annual appropriations for 4-H Club work in the Extension programs.



CAPPER OF KANSAS
July 14, 1865 — December 19, 1951

His interest in all youth extended to the unfortunate. This found expression in his establishing the Capper Foundation for Crippled Children. Thru it he helped many a crippled child to overcome his handicap and lead a normal life.

Some 6 years ago, when Senator Capper was about to celebrate his 80th birthday anniversary, a good friend asked him to explain his philosophy of life. He did this in his birthday message in words that go far toward defining his attitude toward his fellows, as a publisher, as a citizen, and as a public servant.

"If I have worked out a philosophy of life," he said, "it is a simple one, something like this. I try to live each day so that I like to live with myself, and feel that tomorrow I still will like

to live with myself. After all, it is myself that I have to live with, so I might as well try to live in good company."

"I think I always have liked people, individually and collectively. I should. I do. People have been very good to me. I would be an ingrate if I did not appreciate that.

"My parents, and the Kansas in which I grew up, provided me with a solid foundation on which to build a life.... Father was a Quaker. An Abolitionist. A Dry. A Crusader. He came to Kansas to conduct an underground railroad as they were called—to help escaping slaves to Canada or northern states where they could live as free men. He believed in work, in thrift, in sobriety, in God. He believed also in doing business at a profit; he believed in people. He was always curious; liked to know new people and get familiar with new things, and how they were related to old things. My mother also was a Quaker—and just about everything that a good Mother could be.

It Was a Good Life

"That, largely, was the Kansas in which I grew up. And that, predominantly, I believe, is the Kansas of today....

"I like to feel I still have the curiosity I inherited from father; also perhaps some of the crusading and other qualities—and the tolerance and good will that characterized mother during all her life. I would hate to think I have become set in my ways, in my thinking, in my reactions.

"If I had my life to live over again (while I like to think I would have done better the few worthwhile things I hope I have accomplished)—if I had it to do over again, I imagine it would be much the same kind of life that I have made of it.

"I think I have got a lot out of life. I enjoyed life as a boy, as a printer, as a reporter, as an editor, as a publisher. I certainly enjoyed being Governor of Kansas. I have enjoyed being a United States Senator from Kansas.... I like to think I did a good job as a printer, as a reporter, as a publisher, as a citizen, as governor of my native state, and as senator from Kansas....

Wholesome Respect for Majority

"In that time I have come to have a wholesome respect, over the long pull, for the opinions and decisions of the majority. But I have learned also that in times of excitement a majority can be most terribly and completely wrong....

"If I had to sum up my philosophy in one sentence, I would say: "Live and let live—and lift a little more than your share. May God bless you, my friends."

Arthur Capper was born July 14, 1865, at Garnett, Kansas. He served as Governor of Kansas two terms, 1915-19, and as United States Senator from Kansas 5 consecutive 6-year terms, 1919-49, declining to run for re-election in 1948. Even as a boy in school he was interested in the printing business. With a toy press he printed and sold visiting cards among his neighbors. Thru high school he worked as a typesetter on the local newspaper. Upon graduation from high school, only boy in a class of nine (he headed the class and delivered the valedictory address) Arthur Capper obtained a job as typesetter on The Topeka Daily Capital in the early summer of 1884.

At the time of his retirement from the Senate (January 3, 1949) he was owner and publisher of The Topeka Daily Capital, The Kansas City Kansan (afternoon daily and Sunday newspaper in Kansas City, Kan.) and the following other papers and magazines:

[Continued on Page 6]

REWARD



Turn BEM BRAND Fertilizer into your soil and make an average of \$4.00 for every \$1.00 invested in plant food for spring crops.* Just follow these profitable steps:

1

TEST YOUR SOIL



Your County Agent's soil testing lab can tell you what plant foods your soil needs to grow bigger and better crops this Spring.

2

SEE YOUR DEALER



Your BEM BRAND Dealer has the grades of BEM BRAND Fertilizer to fill the testing lab's recommendations for building your soil's fertility.

3

FEED YOUR SOIL



BEM BRAND's "multi-sized" particles will go right to work in moist soil to get it ready for Spring. To be sure of getting your share of fertilizer this Spring, buy now—and store it in your soil or in your barn. Either way—BEM BRAND will pay—in bigger yields and more productive soil.

Buy the BONUS Brand

BEM BRAND Fertilizer contains CALCIUM, SULPHUR and OTHER vital nutrients besides the Nitrogen, Phosphate and Potash guaranteed on the tag.

* National Averages



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FREE FERTILIZER HANDBOOK

NEW 28-page booklet. Write to Information Dept., Thurston Chemical Co., Joplin, Mo.

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THURSTON CHEMICAL COMPANY

Farm Matters

(Continued from Page 5)

Capper's Weekly, national weekly farm paper.

Capper's Farmer, national monthly farm magazine.

Household, national monthly magazine.

Five state farm papers, published twice monthly:

The Kansas Farmer.

The Missouri Ruralist.

The Michigan Farmer.

The Ohio Farmer.

The Pennsylvania Farmer.

Two radio stations:

WIBW, Topeka.

KCKN, Kansas City, Kansas.

Two commercial firms:

Capper Printing Co., Inc.

Capper Engraving Co.

His first venture as a publisher was made in 1893, when he purchased The North Topeka Mail, a weekly. During the preceding 9 years he had worked as printer, reporter, state political reporter and city editor of The Topeka Daily Capital; spent one year as a reporter on the New York Tribune and as Washington correspondent for The Topeka Capital.

The preceding year, December 1, 1892, Arthur Capper married Miss Florence Crawford, daughter of former Gov. Samuel J. Crawford (war governor of Kansas), at Topeka. The city of Florence, Kan., had been named for her. She died May 10, 1926. They had no children.

A few months after buying the North Topeka Mail he bought the Kansas Breeze, a weekly paper founded by Frank Montgomery and Tom A. McNeal, consolidated these as The Kansas Mail and Breeze, kept Tom McNeal as editor. He bought from Albert T. Reid in 1919 The Kansas Farmer, and consolidated the publications as The Kansas Farmer which you know today.

Excepting for 3 "Eastern" state farm papers, and The Kansas City Kansan, the Capper Publications were established and growing concerns before Arthur Capper entered the political picture.

The Kansas City Kansan was taken over by Arthur Capper in 1921, after he had become U. S. Senator, and in that year he also acquired controlling interest in Michigan Farmer, Ohio Farmer, and Pennsylvania Farmer.

Arthur Capper's first public office came to him in 1909, when Gov. Walter Roscoe Stubbs named him member and chairman of the Board of Regents of the Kansas State Agricultural College (now Kansas State College).

In 1912 Capper was the Republican nominee for governor. He lost the election by 29 votes to George H. Hodges, of Olathe, Democrat. Capper refused to contest the count.

In 1914 Capper was elected governor. Four years later he went to the U. S. Senate where he remained 30 years.

The Kansas publisher and former Governor arrived in Washington in the wake of World War I. He got on the Senate Committee on Agriculture and

Forestry—and 8 others. He was even chairman of a special committee to investigate expenditures in the Department of Agriculture, an unusual recognition to be accorded a senator in the first session of his first term.

Senator Capper took an early and prominent part in the formation of the Senate "Farm Bloc" of the twenties. First head was Senator Kenyon, of Iowa. When Kenyon left the Senate for the judiciary, Capper of Kansas became the head of the Farm Bloc. The agricultural legislation of the Harding, Coolidge and Hoover administrations was largely due to Farm Bloc activities.

Later he joined in the fight against NRA and the Supreme Court Packing bill; opposed Administration measures and policies leading toward entry into World War II; supported every appropriation and other legislation for prosecution of the war; went along with Senator Vandenberg, of Michigan, in

the foreign relations committee on postwar legislation in the international field, including United Nations Charter, Greek-Turk Loan, and Marshall Plan.

Most of his committee work was done on Agriculture and District of Columbia committees, on both of which he served during his entire 30 years in the Senate; and on Foreign Relations Committee of which he was a member for more than 25 years. It was his boast that as Senator from Kansas he never made any distinction between Republicans and Democrats in fulfilling his responsibilities as representative of all the Kansas people in the national legislature. And in Kansas it is felt he made good in that policy.

Organizations to which Senator Capper belonged were legion—business, honorary, fraternal, social. But those in which he took greatest interest were the major farm organizations. His whole mature life was dedicated to the progress of agriculture, working for more satisfactory and satisfying standard of living on the farm.—R. H. G.

"The Good a Man Does Lives After Him"

ARGRICULTURAL, business, political and civic leaders, folks throughout Kansas and the Nation from all walks of life paid tribute to Senator Arthur Capper. We quote them in part:

It may almost be said that an era in the history of the old Midwest came to a close with the passing of Senator Capper. In him the middle border country whether in the national legislature or thru his newspapers had a powerful advocate and staunch defender.

Our relations, always pleasant, were further strengthened by years of close association as colleagues in the United States Senate. In his death the nation loses an outstanding citizen and I mourn the loss of a faithful friend.—Harry S. Truman.

Senator Capper was one of the greatest statesmen in the 91 years of Kansas history. At times like this the world can ill afford to lose men of his caliber.—Edward F. Arn, Governor.

Kansas has lost, in my opinion, its outstanding citizen—a man who always has been interested in the welfare of its citizens. He not only was a national figure, but one whose name was known the world over as a great benefactor of mankind.—Frank Carlson, U. S. Senator.

... His life was one of true service and will never be forgotten.—Albert M. Cole, Congressman.

... He knew what it took to make a citizen, a state, and a nation.—Wint Smith, Congressman.

The life of Arthur Capper and his contribution to the youth of America, to the state of Kansas and to the Na-

tion can never be equaled.—Ernest Scrivner, Congressman.

Kansas and the Nation have lost great publisher, a fine patriot and truly great American.—Harry Darby, Kansas City.

I have always regarded him as a outstanding gentleman and a great public servant.—Walter A. Huxman, Judge, U. S. Circuit Court of Appeals.

Senator Capper will long be remembered for his distinguished and unselfish services to his state and nation. He also will live long in the hearts of many people for his kindly thoughtfulness and his helpful work thru the Capper Foundation to restore children's health.—Alf M. Landon, former governor.

Senator Capper was one of Kansas' greatest citizens—a fond, kindly philanthropic man.—Harry Woodring, former governor and Secretary of War.

One of the biggest men Kansas and the country ever produced was Arthur Capper. I know he did more for the people of Kansas than any other man.—Ben S. Paulen, former governor.

Arthur Capper for the better part of a half century was Kansas' Citizen No. 1. As a public servant who lived up to his sense of obligation, he was unequalled in Kansas history. A very exceptional man.—William P. Lambertson, former Congressman.

Rural America pauses in respectful tribute to Arthur Capper, whose name will live on in history. Farm people in particular will revere the memory of this distinguished Kansan, not only as a statesman and publisher, but also as a staunch champion of agriculture, originator of farm youth movement and constant friend of common people everywhere.—Roy Freeland, secretary, Kansas State Board of Agriculture.

The colored people throughout America mourn the loss of the Honorable Senator Arthur Capper foremost exponent of the rights of the Negro people champion and proponent of the little-folks. Charline Sawyer Williams, Chairman, Tau Amega Chapter American Council on American Rights Alpha Kappa Alpha Sorority, New York City.

During his distinguished career in journalism and public service he was pre-eminent exponent of the principles and ideals all of us hold dear.—Frank J. Starzel, Associated Press.

His ability and his conduct will long serve as a pattern and inspiration to others who desire to be good citizens.—Dolph Simons and W. C. Simons, Lawrence, Kan.

Kansas and the nation have lost one of their most able, honorable and distinguished public servants, and the college has lost one of its finest friends, James A. McCain, President, Kansas State College.

Men are judged by their deeds and services to others. There will never be another like him.—A. Q. Miller, Salina, Kan.

(Continued on Page 15)

Arthur Capper, the Publisher: His Heart Was Always Open'

HENRY S. Blake, vice-president and general manager of Capper Publications, Inc., paid the following tribute to Senator Capper:

A kinder, gentler man never lived. He never knowingly hurt anyone.

We did not work for Arthur Capper—we worked with him.

Never in all the 32 years I worked with him did a harsh word ever pass his lips. No matter how troubled the times, he always was completely fair to the other fellow.

Never once in all the years I knew him did he ever use a swear word or tell an off-color story. I attended a hundred or more banquets with him where liquor was served and Arthur Capper always turned his glass down.

He never asked an employee's religion or his political affiliation.

Two days before he died, he said, "Henry, I've been a bit sick, but you tell the boys I'll be back on the job in a few days."

No matter how worried he was about political or business matters, his heart was always open to a little child.

His father taught him a bit of philosophy in the form of a poem which he memorized and often recited to us. It went like this:

Work wins, it always wins
Tho' days be dark and nights be slow
Twixt days and nights that come and go

Still work will win, its average is sure.

He wins the most, who can the most endure
Who conquers trials, who never shirks
Who waits, who watches and who always works.

He was a gentle soul, but with the dogged, persevering courage of the Quaker; with an iron constitution and an abiding faith in the goodness of his fellow citizens. He lived for others. He dedicated his life and his publications long years ago to the welfare of the average citizen, to the health and happiness of children, and he never took unfair advantage of any living soul.

May God grant us the wisdom, and the kindness, and the strength and the courage to follow in his footsteps.

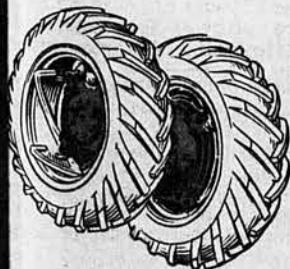


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Board of Agriculture Meets January 9 to 11, in Topeka



M. E. ROHRER, President
Kansas State Board of Agriculture



EDWARD F. ARN
Governor of Kansas



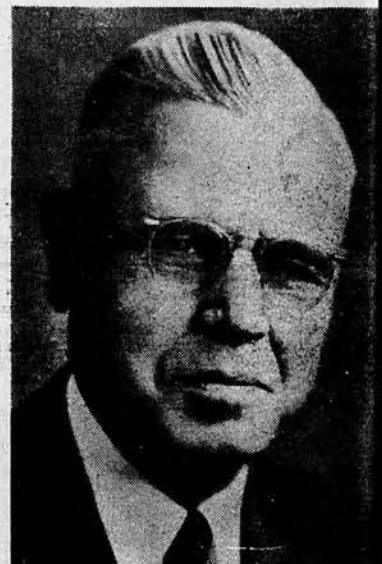
ROY FREELAND, Secretary
Kansas State Board of Agriculture



DR. VINCENT J. SCHAEFER
General Electric Laboratories



DR. HAROLD MYERS
Kansas State College



R. I. THROCKMORTON
Kansas State College

ATTENTION of Kansas farm people will be focused on Topeka, January 9 to 11, when farm delegates gather for the 81st annual meeting of the State Board of Agriculture. This meeting will be highlighted by speeches on currently prominent topics, such as rainmaking and atomic energy, together with down-to-earth talks on soils, livestock, taxes, and Western Kansas agriculture.

Secretary Roy Freeland of the Board, who arranged the annual meeting program, has announced that all sessions are open to the public and all interested persons are cordially invited to attend.

One highlight of the meeting will be the return appearance of Vincent J. Schaefer, research scientist from General Electric Laboratories, in Schenectady, N. Y. Schaefer, who first explored the possibilities of man-made rain, has for the title of his talk, "Should Rainmaking be Controlled?"

Another talk of widespread general interest will be that of Naval Captain Carroll P. Hungate on atomic energy.

Will Honor Throckmorton

At the Board's annual banquet, Wednesday, January 9, special honors will be paid to R. I. Throckmorton, dean of the School of Agriculture, Kansas State College, and director of the Kansas Agricultural Experiment Station. The veteran Kansas agricultural leader, who is retiring as dean and director July 1, will be presented an award from the Board with President James A. McCain participating.

Kansas University's new chancellor, Dr. Franklin D. Murphy, will be keynote speaker of the banquet. His subject will be, "Responsibility—Key to American Survival." Milton E. Rohrer, Abilene, who is president of the Board, will serve as toastmaster for the banquet and also preside over the meeting.

Basic Kansas agriculture will be the subject of many of the talks and discussions. Emery H. Coles, superintendent of the Branch Experiment Sta-

tion, Colby, and Dr. Harold Myers, head of the Kansas State Agronomy Department, will talk on Western Kansas agriculture and soils, respectively. Wayne Rogler, Matfield Green cattleman; Ray Hoss, marketing specialist; and Harold R. Schroeder, Topeka attorney, will devote discussion time to problems of saving the farmer income tax money and viewing the cattle market situation.

Vernon Woestemeyer, state weed supervisor, will present new aspects of the aerial spraying law in the round table program Thursday afternoon, while Fred Doyle, president of the Shawnee County Farm Bureau, speaks on, "Telling the Farmers Side."

A technicolor movie, "The Kaw Valley Flood," is on the program for Thursday morning. The film will be shown by Steve Smith, Topeka photographer.

Champions Will Be Present

Special honors will come to different individuals and groups during the 3-day event. In addition to Throckmorton, national and sectional 4-H champions will be honored, as well as members of the champion 4-H livestock judging team at the American Royal. Kansas State's international championship poultry judging team will be introduced at the banquet. Friday morning, a movie will be shown on the crop reporting service, and recognition given to crop reporters in the state for long-term service. A special luncheon in honor of all crop reporters will be held Friday noon.

Financial affairs of the state will come to attention Friday morning with a speech by Arnold Jones, new head of the governor's recently established division of administration. Interest in the Friday afternoon program centers around Nyle Miller, new secretary of the Kansas State Historical Society, who speaks on "People are Funny—Even in Kansas." This will be followed by the final business meeting of the convention in which delegates will elect members and adopt resolutions.



DR. FRANKLIN D. MURPHY
Chancellor, Kansas University



NYLE MILLER, Secretary
Kansas State Historical Society

FERTILIZER recommendations by state colleges have been overly-conservative. This was generally agreed by soil scientists of several Midwest states meeting at Manhattan early in December. Recent rapid expansion of experimental work has brought this out. Dr. H. E. Myers, head of Kansas State College agronomy department, stated at the meeting of soil scientists and fertilizer industry representatives,

This speed-up of research, much of it financed by fertilizer industries, is typical of public demand these days for information that can be practically applied. Dr. A. D. Weber, assistant agricultural dean at the college, explained.

The fertilizer industry in Kansas, whose total sales in 1932 were less than 2,000 tons, this year reached an estimated 200,000 tons in sales valued at 12 million dollars. And what fertilizer can mean to Kansas agriculture in the future is hardly past experimental infancy.

Only this year, Kansans were introduced to irrigated farming along the Republican river where, the lack of sunshine reduced yields, over 100 bushels of corn per acre were harvested in an area where dry-land farming gave 40 to 50 bushels. This work on the farm of H. A. Malm and Sons, near Lindsborg, demonstrated a balanced cropping and livestock program. With an insured water supply, corn could be seeded at 19,000 plants per acre, 60 percent thicker than ordinary dry-land planting. More fertilizer could be applied too, knowing moisture would be available to utilize it, Doctor Myers said in describing the demonstration. Sites are now being selected in North Central Kansas for irrigation experiments which it is hoped will lead to production of 225-bushel corn, 100-bushel wheat, and pasturing at the rate of 2 animals per acre. This work also is expected to give some answers which will aid in raising dry-land yields.

Forty-five acres of the Malm farm

were changed from dry-land to irrigation farming. While last season supplied almost twice normal rainfall, there were 2 dry periods when it was decided to irrigate, putting a total of 5.5 inches of water per acre on the land. Sorghum yields ranged as high as 90 bushels per acre. Some of the corn for silage tests 130.9 bushels per acre, better than for grain which in best tests reached 113 bushels.

Experimental results of last year viewed at the conference were dimly somewhat by effects of wet weather, windstorms, floods, the fact many fields couldn't be entered with machinery when they should have, but were enlightening. There also was comment that if rates of application of fertilizer could have been altered to fit wet season which followed, more impressive results also might have been obtained. Some results had to be completely discarded because of weather damage.

In a study of urea and liquid nitrogen fertilizer applied to small grains, F. Smith, Kansas State, reported ammonium nitrate was superior as a spray urea, with highest wheat yields resulting when application was made 30 days before flowering. Soil application of ammonium nitrate 60 days before flowering gave a slightly higher yield, however, than either of the sprays, or applied to the soil. Various treatments using urea and mixed fertilizers proved ineffective on germination of wheat, oats and barley. In some cases liquid fertilizer was found to actually stunt growth. Protein content also received a bigger boost when dry fertilizers were used.

Emphasizing the importance of tests, J. R. Gingrich reported results of wheat fertilization. They show that nitrogen applications increased yield in every experimental location, while potassium had little effect on test which were set out at Beltsville, Maryland. (Continued on Page 23)

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How to raise 4 to 4½-lb. chickens
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Figure for yourself:**

For less than \$35 out-of-pocket cost, you can feed me and 99 others—100 of us—for 12 weeks. And it's possible for you to have between 400 and 450 pounds of chicken!

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*In many battery tests on thousands of chicks at MoorMan's straight-runchickens averaged 3.28 pounds in 10 weeks. And it took an average of only 2.57 pounds of total feed to make each pound of chicken. That's growin' big...on a little feed! And at less cost to you!

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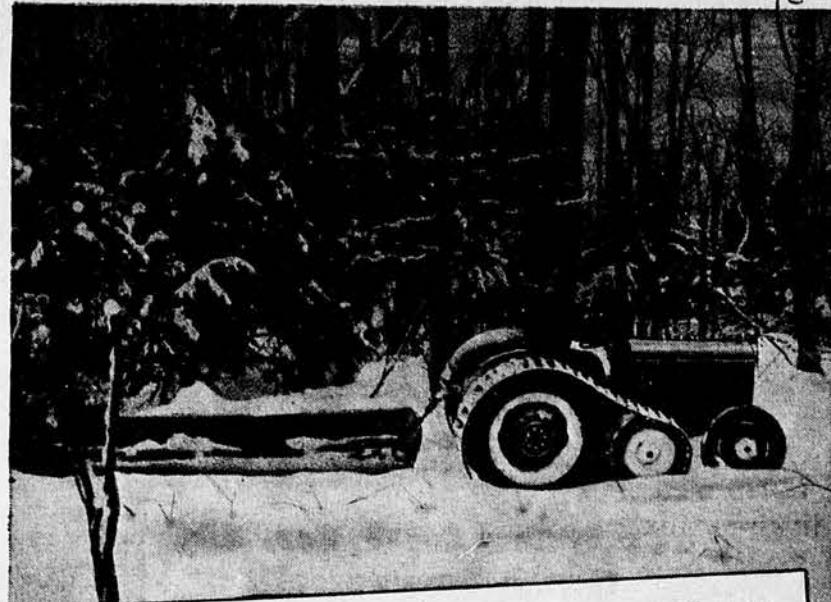
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Farm Outlook for 1952

Active Demand for Farm Products at Good Prices

By **GEORGE MONTGOMERY**
Department of Economics and Sociology

ANOTHER favorable year is in prospect for Kansas farmers. There

will be active demand for a large volume of farm products at satisfactory prices. While the level of net farm income may not equal the level of 1947 or 1948, it is probable receipts from sale of farm products will equal or exceed those of other recent years.

High Consumer Incomes and Active Demand: Active demand for products of Kansas farms at favorable prices will arise from a high level of employment and a high level of business earnings. Total employment during the summer of 1951 exceeded 62 million persons, and it is expected this level of employment will be maintained or possibly increased slightly during 1952. Average weekly earnings of factory workers during September, 1951, was \$65.25, compared with \$60.64 in September of 1950. The index of food prices in September on a 1926 basis was 188, compared with 177 in September, 1950. Thus, while food prices have advanced, income of factory workers has more than kept pace with the rising cost of food.

Spending May Increase

It is expected employment and consumer incomes will continue to rise in 1952 if defense activities are expanded. It is estimated expenditures for defense may increase from an annual rate of 41 billion dollars in the third quarter of 1951 to around 65 billion dollars by the fall of 1952. Expenditures for new plant and equipment in the third quarter of 1951 was about 50 per cent larger than in the fall of 1950. Business demand for new plant and equipment is expected to be higher in 1952, and average supplies of steel may permit a continued high rate of investment during the coming year.

Prospects for higher consumer incomes indicate demand for farm products, especially meat, poultry, and dairy products, will be strong. However, despite this active demand, it is probable average farm prices may remain near the level prevailing in 1951. A record production of farm products during 1951, and prospects for a continued high level of output during 1952, will tend to offset prospective strong demand for food. Rising costs of living for items other than food may also tend to limit the family budget for food expenditures.

Costs of Farm Operations Will Rise: While active demand and good prices may be expected for Kansas farm products, there also is prospect costs of farming operations will be higher. Feed prices will be higher, at least until new crops are harvested. Prices of feed grains during the fall of 1951 remained strong during a period of normal seasonal weakness. Rising feed costs will be an especially important factor for

Kansas dairymen and livestock producers.

Labor also will cost more. Farm labor will continue to be limited in supply, owing to attractive wages in defense plants and in other industrial employment. It is anticipated these opportunities for employment will continue to attract many workers from farming areas and will bring upward pressure in farm wage rates.

The tendency to higher labor cost may be offset in part by more extensive use of laborsaving machinery and improved techniques. However, it is probable cost of new machinery and also cost of operation and maintenance of existing equipment will be higher than in recent years. The services of skilled laborers, such as mechanics, plumbers, carpenters, and masons, will cost more than in recent years.

Shortage of Help

The supply of skilled laborers in local areas is limited and opportunities for employment are abundant. This will be an important factor influencing maintenance of machinery and equipment and construction of new buildings.

Taxes of nearly all types will be higher. Local property taxes in Kansas for 1952 will generally be 10 to 15 per cent higher than for the previous year. Increase will be due primarily to higher local levies. The next reassessment, which will be in 1954, probably will result in higher evaluations of property since market values of most property have increased since the 1950 assessment. Other taxes, particularly personal income taxes and excise taxes, will be higher.

This prospect for higher costs of operation means net farm income may be less than would be indicated by the demand for farm products. In Kansas the effect of rising costs of operation may be offset in part by larger production of wheat and feed grains in 1952 than in 1951, so total net farm income for the state may be larger in 1952.

Rising Costs of Living: After paying more dollars to cover costs of farm operations, farmers may be confronted with another disappointing situation in 1952. Each dollar of net income probably will buy less of the necessities, comforts, and luxuries of living than a dollar bought during 1951. In 1951 the dollar bought about 10 per cent less than during 1950, and about one-third less than during 1946. It is expected this trend will continue.

Many items required for family living will cost more. Household appliances, professional services, and recreation probably will be in this category. Many items, while small in individual amounts, will increase the total of family expenditures. For example, higher excise taxes will increase the

(Continued on Page 12)

1952 Farm Outlook in a Nutshell

General price level—Will rise only slightly to moderately.

Agricultural production—May be slightly higher than 1951, with higher marketing of livestock.

Farm prices—Probably about the same.

Prices paid by farmers—Slightly higher.

Net farm income—May be larger for the state in 1952.

Land prices—Will continue to rise.

Feed grains—Supplies slightly lower, prices moderately higher.

Livestock—Beef supplies moderately higher with little change in price; hog supplies and prices about the same; sheep and lamb supplies about the same, prices about the same as late 1951.

Dairy products—Supplies about the same, prices slightly higher, strong demand, and production costs higher.

Poultry and eggs—Larger production of eggs; chicken production about the same, but broiler production probably will be larger; turkey production may be larger; prices about the same as 1951; strong demand for poultry products.

Wheat—Higher production, slightly higher supplies and prices.

Farm operations—Costs will be higher; farm labor will be limited in supply and will cost more.

Machinery—Cost will be higher; cost of operation and maintenance of existing equipment will be higher.

Family living—Many small items will increase total of family expenditures.

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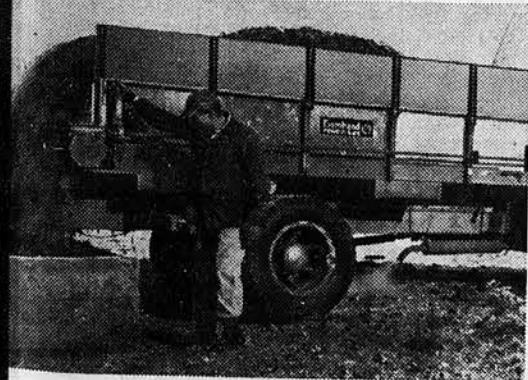


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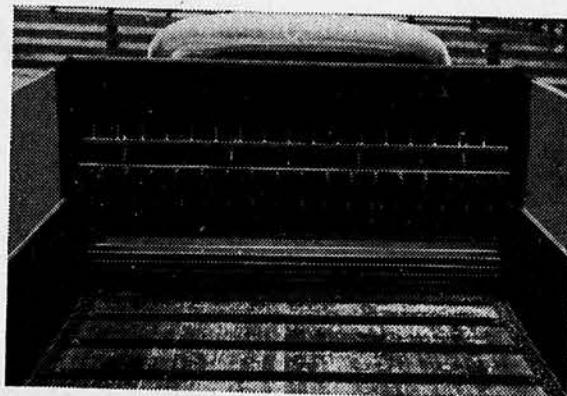
MIXES AND UNLOADS AUTOMATICALLY. I just dump unmixed feeds into my Power-Box and drive along the bunks. Mixer-Feeder mounts front or rear of base unit; elevator discharges to right or left.



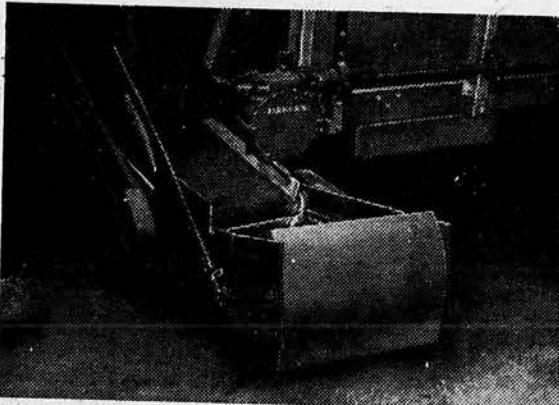
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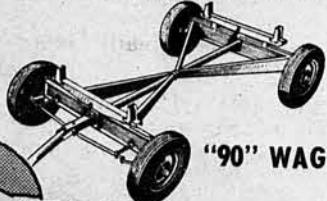


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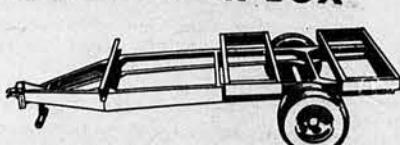


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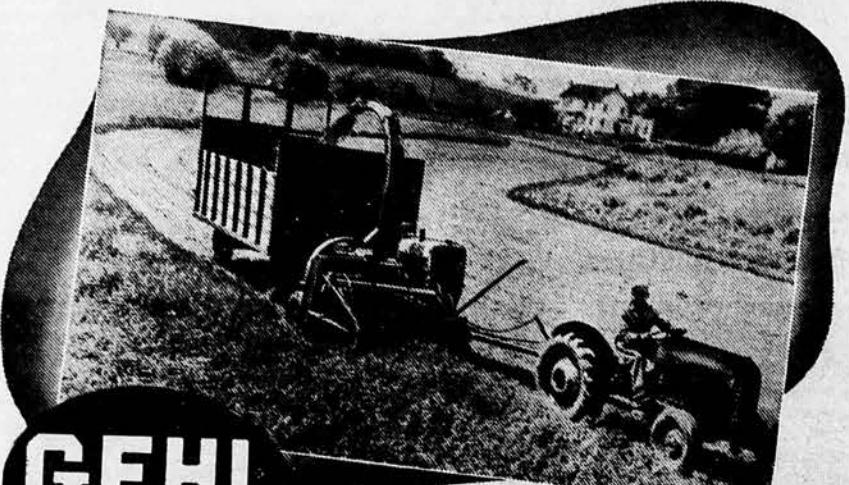
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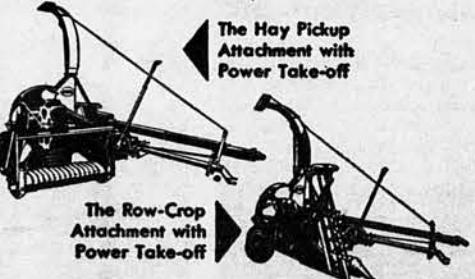
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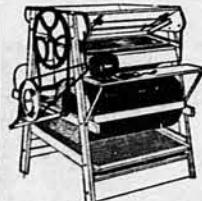
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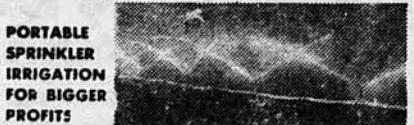
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Farm Outlook for 1952

(Continued from Page 10)

outlay for a new automobile from \$40 to \$75. Automobile insurance, as well as other forms of protection, will require more dollars. Costs of hospital and medical services will be at higher rates than prevailed prior to 1950. Household appliances may be bigger, and brighter, and better; but they will also command more dollars as adjustments in manufacturers' ceiling prices are made to offset the rising costs for labor and materials.

About Investing Profits

Farmers who decide to invest their income rather than spending it currently will be confronted with similar results of inflation. Buying the "adjacent quarter" or a nearby farm to increase the size of the operating unit will require a larger outlay than would have been required 2 or 3 years ago. Investment in breeding stock, construction of new buildings, or purchase of durable equipment means more dollars.

It will require no more dollars to buy bonds or other securities of fixed values, but dollars invested in such securities 10 years ago will purchase substantially less than when the investment was made in 1942. During 1952 the unpleasant results of inflation will become more evident, both from the standpoint of expenditures for production and for family living and from the standpoint of investment. As persons appraise the current purchasing power of investment made 10 years ago, the increase in number of dollars required to provide security either for old age or for protection from unexpected hazards will be realized.

Wheat and Feed Grains: Domestic use and exports of wheat during the 1951-52 marketing season will exceed the 1951 production. Thus, the carry-over of wheat on July 1, 1952, may be substantially less than the 395-million bushels carryover of July 1, 1951. A tentative farm support price of \$2.17 per bushel minus a storage deduction, has been announced for the 1952-53 season. An export demand during the months immediately ahead is expected to hold market prices above the current support level.

Adequate supplies of both concentrates and roughages are in prospect for the United States during the 1951-52 feeding season. However, owing to increases in livestock numbers the supply of feed concentrates per animal unit will be somewhat smaller than during the last 2 seasons. Smaller corn and grain sorghum crops in Kansas than a year ago will result in shortage of feed supplies in many local areas. Early movement of feed grains and hay out of local areas in Kansas will tend to accentuate these shortages. Prices of feed in many local areas will result in unfavorable feeding ratios for Kansas producers of pork, poultry and dairy products.

Livestock: Production of meat animals, especially cattle and sheep, is expected to continue generally profitable. However, rising costs of operation and rising feed prices will put greater emphasis on efficiency in feeding and effective management. Some Kansas producers will avoid the effects of higher feed grain prices by fuller utilization of roughage and grass.

Cattle numbers in the United States have been increasing since 1948. A new high of 90 or 91 million head of cattle on farms is expected when the January 1, 1952, figures are released next February. Largest relative increases have been in numbers of beef cows and heifers. This holding back of cows and heifers to build up breeding herds has resulted in smaller cattle slaughter during the last 3 years. Cattle slaughter during the first 9 months of 1951 was at a 10-year low and calf slaughter was near an 18-year low. Thus, the beef-producing potential is being increased, altho the amount reaching market has not increased as yet. This situation, plus rising costs and inflationary trends, should be significant facts for farmers who are expanding breeding herds, or who are planning to start a beef cattle

enterprise. There is some justification for the belief that the current level of employment and consumer incomes may support permanently a large number of cattle on farms. However, consumption of all beef that may be produced from present cattle numbers with consumer incomes not stimulated by defense activity, would seem to be essential, before concluding that present or larger cattle numbers can be profitably maintained.

Pork production in the first half of 1952 probably will be a little larger than during the corresponding period of 1951. A less favorable feeding situation may result in slightly smaller production of pork during the latter part of the year. Price outlook for hogs does not point to any substantial change from 1951. The corn-hog ratio may be less favorable in 1952 than in 1951, and chief joining and competing areas.

Sheep numbers have increased slightly from the record low of 1951 in summer. On January 1, 1951, there were 28 million head of stock sheep in the United States, compared to the peak number of 49 million head on January 1, 1947. Demand for lamb is especially sensitive to level of consumer incomes. The small number of sheep on farms, the expected build up in the number of sheep, and the strong demand for lamb and mutton, as well as a strong consumer demand for woolen goods are favorable factors in the outlook. Altho breeding ewes are high in price relative to previous periods the long-time outlook for price of sheep, lambs, and wool is favorable for the early spring lamb enterprise.

Dairy Products: A high level of consumer incomes, upward trend of population, and a larger portion of the population in the younger age groups indicate continued strong demand for milk and dairy products. In Kansas cost of producing milk is expected to rise as a result of higher feed costs and scarcity of labor. The shift in milk utilization toward larger use as fluid milk and ice cream, with less used for butter, is expected to continue, but at a slower rate than during recent years.

Poultry and Eggs: A larger production of eggs is expected during 1952. Production of chickens on farms is expected to be about the same as in 1951, but production of broilers probably will be larger. Production of turkeys may be larger than the record output of 1951. High level of employment and consumer incomes, plus relatively high prices for red meats are expected to provide a strong demand for poultry products. Prices probably will be about the same level as during 1951.

The Period Ahead: The outlook for 1952 appears favorable. The outlook for continuation of a stable and prosperous agriculture for 1952. However, there are some real weaknesses in the current economic structure. A drop in employment, as might occur from decreased emphasis on defense production, could result in sharp declines for some commodities, such as cattle and corn, for example. Overexpansion and heavy indebtedness could result in severe losses for young farmers or farmers with limited reserves. At the other extreme continuing inflation is a serious threat.

It may be much harder to hold financial gains together during the decade of the 1950's than it was to acquire them during the 1940's. Some factors which will aid in holding these gains for Kansas agriculture, and for individual farmers are:

1. An awareness of economic trends and an understanding of their effect
2. Sound judgment and deliberate decisions
3. Efficient management of farm operations
4. Adequate farm records, not solely for tax purposes, but as a basis for planning farm enterprises
5. Proper financial reserves, a portion of which have recognized liquidity
6. Avoidance of the philosophy that the price level will move upward definitely.

Broiler Growers Will Organize

Purpose Is to Improve Marketing for Rapidly-Expanding Industry

A STATE-WIDE organization for broiler raisers in Kansas will be launched sometime this year, following action taken at the annual meeting in Wichita of the Kansas Poultry Improvement Association. Purpose of the group will be to improve marketing of birds for this rapidly-expanding industry in Kansas.

All phases of the poultry business were discussed during the 2-day meeting of the Association. Speaking on "Modern Broiler Housing," Leo T. Wendling, Kansas State Extension engineer, told the group, "We need a broiler house that can give protection to baby chicks at 0-degree-zero weather, yet be adequate for protecting broilers at 100 degrees in the shade. And we must design and build such a building at a cost the producer can afford."

Natural air circulation, when properly designed, is favored by Mr. Wendling over forced ventilation or a combination of forced and natural. "Ventilation, especially in summer, is the chief engineering problem in broiler housing," he says. Mr. Wendling suggests such items as sliding doors or panel wall openings that could be used in summer to further open up the house. Size of broiler house also is important, Mr. Wendling says. "A building large enough to house 10,000 birds has 194 times the labor efficiency of one having a capacity of less than 5,000." As small advice, the engineer says, "Don't expect to build a broiler house until you have talked to those who have."

One Key Problem

Marvin Vautravers, a Grand Island, Nebr., broiler producer who will market more than a half million birds this year, gave some of his experiences. One major problem, he says, is working out a program that will get and keep good labor. He uses a basic salary, plus living quarters, plus commission arrangement. Accurate records are kept on individual chickens under management of each employee so both employer and employee know exactly what profit is being made, if any. "Chicks used in broiler projects," says Mr. Vautravers, "must utilize the best broiler type and disease-free."

Retail markets are giving more and more attention to poultry and poultry-product merchandising, said Marvin E. Vines, Extension Service, Kansas City. Retail markets have increased their display space on poultry and poultry products by 20 to 25 per cent in the last 5 years, says Mr. Vines. "Much study is being given to increasing efficiency in the retail market. One experiment that is looking good is this—by speeding up a band saw they can now cut up chickens without discoloring the meat."

"We are just getting started to tap the possibilities of selling chicken parts," says Mr. Vines. He mentioned Kansas City markets that increased their total tonnage sales of poultry meat by 300 and 600 per cent respectively by selling chicken by the piece in addition to whole birds. He also mentioned a major chain store that has set a goal for 1952 of selling 20 per cent more poultry meat than in 1951. "Hatcheries must cut down on hatch-flock turnover by more careful selection of flocks and by using more education so flockowners will know that the hatchery is trying to achieve." That was the advice of E. M. Funk, professor of Poultry Husbandry, University of Missouri. "Hatcherymen need

Reliable Information

Cir. 94—Inexpensive Silos for Kansas.
Cir. 217—Lambs for Profit.
Cir. 227—Creep Feeding.
Cir. 220—Sorghums in Kansas.

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to visit their flockowners on the farm and, with them, go over a sound management program. They also must help farmers find a market outlet for extra eggs and for off-season production, altho this may be very difficult to do."

Professor Funk suggests that hatcheries pay a premium for high hatchability of eggs and pay a higher premium for broiler hatching eggs than for egg-laying strains. "The quickest way to get rid of pullorum is to use only pullorum-free replacement stock," says Professor Funk.

Farmers will be able to sell their 1952 output of eggs and broilers," says Don M. Turnbull, executive secretary of the American Poultry and Hatchery Federation. He says the number of layers on farm as of January 1, 1952, is

2 to 4 per cent larger than a year ago, and that broiler production also has increased. Altho poultry income will be up in 1952, so will costs, says Mr. Turnbull. He quotes hatchery figures showing that costs of producing day-old pullets have jumped 6 cents each in the last year, a rise of about 33 per cent.

There is a lot of room left to improve hatchability of eggs, believes Professor E. M. Funk, of the University of Missouri. "Average hatchability for all hatcheries is only 70 per cent," he says. "A 5 per cent increase on a 100,000-egg hatchery doing a 4-times-a-year turnover, would bring in an extra \$3,000."

Some things hatcheries and flockowners might do to improve hatchability, he believes, include more careful selection of breeding stock, being careful not to use too many males in the flock, getting eggs from flocks composed entirely of pullets and cockerels rather than older birds, seeing that flocks are properly housed, seeing that pullets are put on range for proper development; use feed that has everything in it needed for hatchability, selection of best eggs for hatching (those that make best market eggs are also

best hatching eggs), selecting eggs with good strong shell and with good interior quality, proper handling of hatching eggs from time they are laid until they are put in incubator.

When raising turkeys a strong feeding program for the entire growing and fattening period must be planned ahead of time, says Rollin H. Thayer, Professor of Poultry Husbandry, Oklahoma A. & M. "You must use feeds designed for a specific purpose," he says, "such as starter, growing and breeder. To get maximum efficiency of feed conversion you must give equal attention to feeding and nutrition during each period of the bird's life. This starts with the breeding hen to insure a hatchable egg and a strong poult that can survive and do well until it becomes adapted to the outside world. A good starter feed cannot make up for poor feeding of the hen that lays the egg."

Recipe Card Holder

A wooden chalk box painted a bright red with a stenciled decal on it makes a handy box to keep recipe cards in order.—Mrs. F. M. T.

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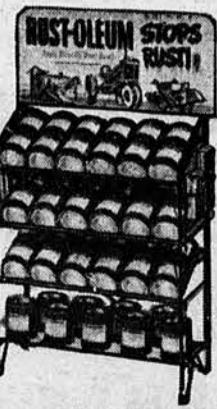
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Thoughts TO LIVE BY

"Money Talks"

WE HAVE heard it again and again: "Money talks." And, indeed, it does. But it doesn't say the same thing to all people. Don't think of it just as the instrument of evil. It speaks a good word as well as a bad one.

In God We Trust

Speaking to the Toledo Small Business Association, Walter R. Courtenay related the origin of the motto appearing on nearly all of our coins. In 1864, there were people who were concerned about the deterioration of morals and the disintegration of home life. One of the suggestions made to President Abraham Lincoln was that a verse of Scripture be inscribed on our coins. Mr. Lincoln, and Mr. Chase, who was then Secretary of the Treasury, liked the suggestion, but which verse should be used? Someone recommended the middle verse in the Bible. An army chaplain was asked which is the middle verse. He directed them to Psalm 118, verse 8, which reads: "It is better to trust in the Lord than to put confidence in man." Mr. Chase protested that it was too long. Mr. Lincoln replied, "I will fix it for you." After walking back and forth, he exclaimed, "Here it is, *In God We Trust*." The coins that jingle in our pockets or purses contain in abbre-

viated form a message from the center of God's revelation to man. Even our coins advise us individually to trust God, and it is well that they do, for the only security men can find is spiritual.

The Eagle

Our currency as well as our coins speak, but in this case symbolically. On the back of the dollar bill, one finds the eagle. As the bear represents Russia and the lion Great Britain, so the eagle has become the symbol of the United States. A parable entitled "The Oyster and the Eagle" appearing in a publication of the West Central Area Council of the YMCA makes the appearance of the great bird eloquent.

"When God made the oyster, He guaranteed him absolute economic and social security. He built the oyster a house, a shell to protect him from his enemies. When hungry, the oyster simply opens up his shell and the food rushes in.

"But when God made the eagle, He said, 'The blue sky is the limit. Go build your own house,' and the eagle went out and built his house on the highest mountain crag, where storms threaten him every day. For food he flies thru miles of rain and snow and wind.

"The eagle, and not the oyster, is the emblem of America."

—Larry Schwarz

Coming, Next Issue

For several weeks the Home Department has been testing recipes both good and good for you. The best of them will appear in the Home Department of the next *Kansas Farmer*, under the heading, "Fruits, Nuts, Spice and Everything Nice." Watch for the January 19 issue.

Poultry Association Elects Officers

AT ITS annual meeting in Wichita recently the Kansas Poultry Improvement Association held an election of officers as follows: Executive committee officers: Chairman, Clarence Hoopes, Anthony, Hatchery Branch; vice-chairman, Floyd Harris, Kinsley, Hatchery Branch; KSC representative, M. A. Seaton, Manhattan.

Directors: Eustace Coombs, Sedgwick, ROP Branch; Earl Cook, Hope, Flock Branch; A. D. Mall, Clay Center, Flock Branch; Floyd Ramon, Galena, Turkey Branch; Dr. E. B. Boyd, Stafford, Hatchery Branch; Frank Kidwell, Enterprise, Hatchery Branch.

ROP Branch: President, Eustace Coombs, Sedgwick; secretary, Ethel M. Brazelton, Troy; directors, Ralph Wall, Effingham, and Mrs. C. H. Triplett, Topeka.

Hatchery Branch: President, C. E. Hoopes, Anthony; vice-president, Frank Kidwell, Enterprise; secretary, Leonard Boettcher, Ellsworth; directors, Dr. E. E. Boyd, Stafford; Floyd

Harris, Kinsley; Robert Maxwell, Wichita, and John DeForest, Peabody.

Turkey Branch: President, Floyd Raymon, Galena; vice-president, William Lake, Marysville; secretary, Mrs. J. E. Chamberlin, Valley Center; directors, John Scott, White City; Paul J. Brady, Paola; William A. Sanford, Phillipsburg, and Melvin Broadhurst, Valley Center.

Flock Branch: President, Earl Cook, Hope; secretary, Irvin McClung, Winfield; directors, A. D. Mall, Clay Center; C. D. Hatfield, Kinsley; George Stueve, Marysville, and Floyd Fike, Ramona.

New Secretary

Robert Black, of Little Rock, Ark., became general secretary of the Kansas Poultry Improvement Association on January 1. He replaces Ellis Wise, who has entered into partnership with Quirin Arens, of Emporia, in a hatchery. The hatchery will be known as the Arens-Wise Hatchery.

Young Black is a graduate of the University of Arkansas and for the past year has been serving as secretary of the Arkansas Poultry Improvement Association.

For Neat Paint Job

When painting window frames, one can save time by sticking strips of masking tape on glass a fraction of an inch from wood. Tape will keep paint off glass, but still make a tight paint seal between glass and wood or putty to keep moisture out. Strip off tape before paint dries.—E. A. K.

Fertilizer Handbook

To answer many questions you may have on use of fertilizer, write for the new booklet, "Fertilizer Handbook," published by Thurston Chemical Company. Also included are general fertilizer suggestions for various areas. For a copy of the booklet, please write Farm Service Editor, Kansas Farmer, Topeka. There is no charge for this publication.



Kansas Dealers

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MINNEAPOLIS—
Edmands Tractor & Implement Co.
NESS CITY—Roth-Beutler Tractor Co.
NEWTON—Astle Implement Co.
NORTON—Freddie Brothers Equip. Co.
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"The Good A Man Does"

(Continued from Page 6)

Arthur Capper will go down in the annals of our state as a great Kansan. His lifetime of service devoted to agriculture stands out as his monument. More than any other man he was responsible for much of the legislation now on our Statute books to assist the farmers to a place of parity in the Nation.—Roy A. Roberts, Kansas City.

His helpfulness and kindness endeared him to us all. His public service was always devoted to Kansas and the Nation.—C. M. Harger, Abilene, Kan.

Farmers of Kansas and the nation have suffered an irreplaceable loss. By sponsoring the Capper-Volstead Act, the Magna Charta of farmer co-operatives, Mr. Capper did more for the welfare of the farmer than any other American.—Leonard M. Lowe, Executive Secretary, Kansas Co-op Council.

As a former co-worker I extend my deepest sympathy at the loss of Senator Arthur Capper, beloved employer and friend.—Jesse Johnson, Junction City, Kan.

Senator Capper was truly an illustrious American who served his state and nation humbly, honestly, and courageously. His life typified his faith in our American system. His public service was a challenge to all interested in good government.—Senator and Mrs. Schoepel.

Deepest regrets at the loss of a great Kansan.—Mr. and Mrs. J. Floyd Breeding, Rolla, Kan.

He was a great Kansan, a distinguished public servant.—Clyde M. Reed, Jr., Parsons, Kan.

The death of Senator Capper has deprived the country of a high-minded statesman and devoted citizen, and has taken from the National Council for Prevention of War a highly respected officer and a good friend.—Frederick J. Libby, Washington, D. C.

Since I was a kid of 13 on a Texas cotton farm, Senator Capper has been a moral and political ideal.—Ewell Stewart, Topeka, Kan.

Our sincerest condolences on the passing of Senator Capper. He will be missed by all of us in the farming industry.—Thurston Chemical Co., Joplin, Mo.

Arthur Capper was a great business man and a great leader in public affairs. He was a philanthropist and a statesman. He never wavered in his stand for clean politics and clean journalism. He possessed the solid virtues which we admire in Kansas, and when he spoke it was truly the voice of Kansas. Yet with all his success, he was one of the most modest, lovable and kindly men I have ever known. Never have I heard him speak ill of any one.—Clifford R. Hope, Congressman.

He accomplished much for the good of his industry, his constituents and his country.—George Sweeney, Art Gravure Corp. of Ohio, Cleveland, O.

My sincere sympathy because of the home going of Senator Capper. He was one of our Nation's greatest statesmen. Christ has made of death but a narrow starlit strip between the communion of yesterday and the reunion of tomorrow. He was a very dear friend and the nation will miss him.—Homer Rodeheaver, Winona Lake, Ind.

He never punished an enemy or rewarded a friend to advance his own political fortunes.—F. W. Brinkerhoff, Pittsburg, Kan.

He gave the Boy Scout movement full measure of devotion. His unwavering interest in boys and his unflagging zeal in advancing the development of their character and their training for participating citizenship was, and always will be, an inspiration to us.—Arthur A. Schuck, Chief of Boy Scout Executives, New York.

Our present day agriculture is a symbol to the heroic and courageous efforts of Senator Arthur Capper. His name is dear in the hearts of American farmers.—John O. Miller, Agricultural Commissioner, Topeka Chamber of Commerce.



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New Game . . . The Thing

The music goes round and round to the tune of the popular hit "The Thing" as all players sit on the floor forming a large circle. "The Thing" this time is an empty box and is passed around and around the circle.

At any time the music stops. The person holding "The Thing" when the music stops is out. This passing becomes exciting but the box cannot be tossed, only passed from hand to hand. The person holding it when the game is over is the winner. Choose something foolish for the prize, a head of cabbage or a puzzle.

Books for Small Fry

Little folks like books that are active, that have bounce and rhythm, that have a plot or suggestion of a plot, not just a pretty picture on every page.

Likes Home Department

Dear Home Editor: I do like your masthead, "Kansas Farm Home and Family," and think you have a most uncanny ability for touching on things we country girls most enjoy. I am increasingly surprised at how closely women in this area read the *Kansas Farmer*, quoting it at club and unit meetings and other places where women gather.—Mrs. Bula Lemert, Chautauqua Co.



Mrs. Arthur Anderson of Madison, S. D., praises handy Dry Yeast

Governor Receives Winning Entry From Prize Cook

After winning the special "Governor's Award" in a State Fair cooking contest, Mrs. Arthur Anderson presents her winning entry to the Governor himself—Governor Sigurd Anderson of South Dakota.

Of course it was a thrill for Mrs. Anderson to win the Governor's Award . . . but her cooking triumphs didn't end there. The judges awarded her 5 prize ribbons as well! And like so many prize-winning cooks, Mrs. Anderson swears

by Fleischmann's Active Dry Yeast. "My, but it's fast rising," she says. "This handy Dry Yeast is a grand help!"

It's wonderful—the rich, delectable flavor of yeast-raised goodies. A treat for your family—and nourishing, too! When you bake at home, use yeast. And use the best—Fleischmann's Active Dry Yeast. This grand Dry Yeast is fast rising, fast dissolving—always gives you good results. Buy several packages today.

Pattern Parade



Send 30 cents for each pattern to Fashion Editor, Kansas Farmer, Topeka. Use coupon above.

Kansas Farm Home and Family

FLORENCE MCKINNEY, Editor



STUFF ONIONS or other fresh vegetables with your favorite stuffing.

An ONION Is the Cook's Best Friend

ONIONS are just plain good! The cook's best friend! Many an ordinary dish can be improved with a bit of chopped onion. Chopped green onion in a tossed vegetable salad is a must. Use chopped green onion tops mixed with salad dressing for sandwich filling. Add some to hot mashed potatoes, just before serving. Add them to hash browned and plain fried potatoes, too.

Saturday's Supper

3 cups sliced potatoes	ham or pork slices
3 teaspoons flour	salt and pepper
1/2 cup minced onion	2 to 2 1/2 cups hot milk
paprika	

Fry ham or pork slices until lightly browned. Arrange a layer of potatoes in greased casserole, add part of onion, sprinkle with a little salt and part of the flour. Place half the ham or pork slices on top potatoes. Repeat this ending with a layer of potatoes on top. Sprinkle a little paprika on top. Cover and heat in oven 15 minutes. Pour on hot milk to barely cover, add casserole cover and bake in moderate oven (325°) for about 1 hour. Remove cover the last 5 or 20 minutes.

ADD CHEESE to the sauce to make creamed onions a delightful dish for winter months.

Cream of Onion Soup

1 1/2 cups onions, sliced thin	1 tablespoon flour
3 tablespoons butter	salt to taste
	4 cups milk
	paprika

Melt butter in saucepan and add sliced onions. Cook slowly until onions are a golden brown. Sprinkle on the flour and salt and mix thoroughly to cook flour. Add a little water and simmer until onions are very tender. Add milk and heat but do not boil. Pour into soup bowls to serve and sprinkle lightly with paprika and serve. You may put 1 tablespoon grated cheese in each soup bowl before pouring in soup.

Creamed Onions

12 small onions	1 cup water
	1 teaspoon salt

Peel and boil small whole onions in salted water until tender. Drain and add medium white sauce made as follows:

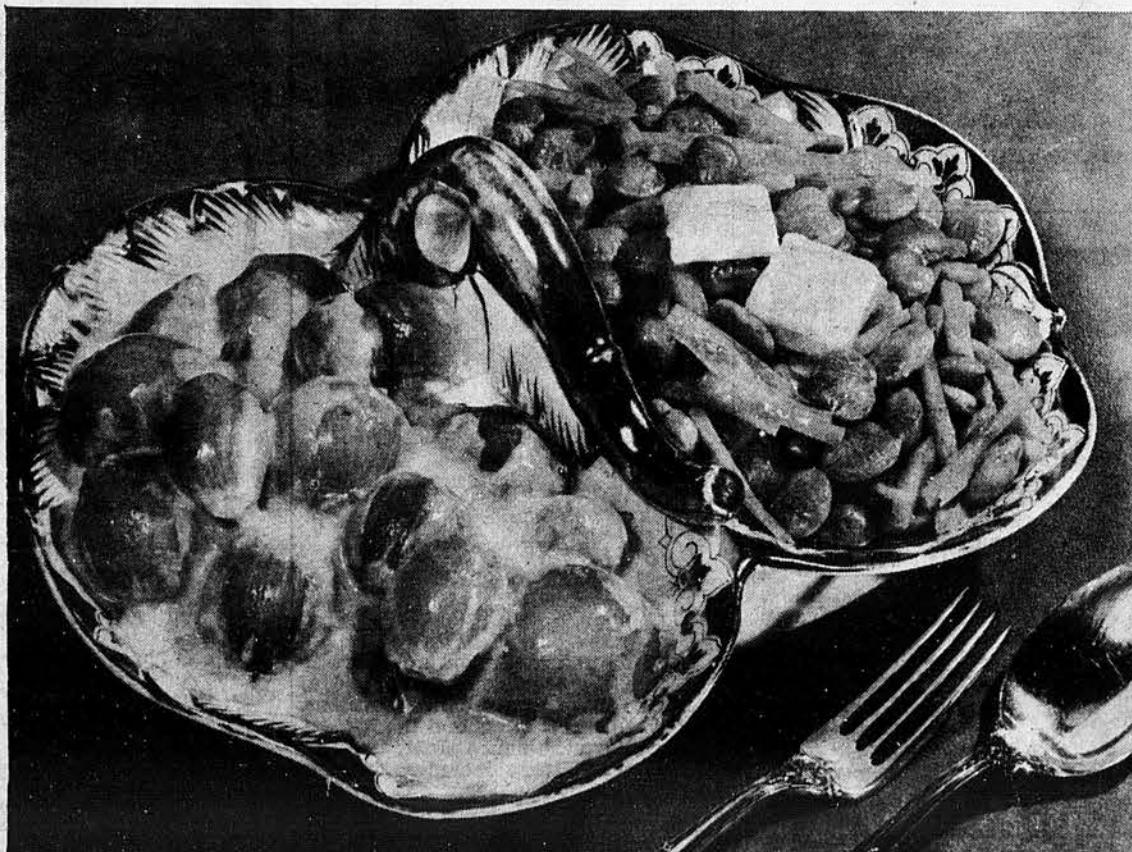
2 tablespoons flour	1/2 teaspoon salt
2 tablespoons butter	dash of pepper
1 cup milk	cheese

Melt fat in saucepan, add flour and salt and pepper. Mix to a smooth paste. Add milk gradually, stirring to keep a smooth consistency. Simmer until thickened. Stir well. Add several pieces of your favorite cheese and stir until it melts.

Stuffed Onions

6 large onions	1/4 cup chopped onion
2 tablespoons meat drippings	1/4 cup chopped green pepper, if desired
1/2 pound ground beef	1/4 cup chopped celery
1/2 cup dry bread crumbs	soup stock or bouillon cube in 1/2 cup water
salt	

Cook onions about 20 minutes in simmering, salted water and remove centers carefully. Mix all other ingredients, [Continued on Page 18]



*Notes from the
BEET SUGAR
KITCHEN*
by Nancy Haven



Let pop do it

GRAHAM CRACKER CAKE-TORTE

So easy—even Pop can turn out this delicious dessert. Makes a moist, lacy square or cupcakes. Keeps well, too.

2½ cups finely rolled graham cracker crumbs
2½ teaspoons baking powder
¼ teaspoon each salt, allspice, cloves
1 cup coarsely chopped walnuts
½ cup butter or margarine
1 cup Beet Sugar
1 egg
1 cup milk
1 teaspoon vanilla extract

Mix cracker crumbs, baking powder, salt, spices and nutmeats. Cream butter or margarine and sugar in separate bowl. Beat in egg until smooth. Combine milk and flavoring; add alternately with cracker mixture, stirring until moistened. Spread in well greased, floured 8-inch-square pan. Bake in mod. oven (350° F.) for 45 minutes. Cool in pan. Serves 8.

For Cupcakes. Fill medium-sized, well greased and floured muffin tins, or paper cups, half full. Bake in moderate oven (350° F.) 20 minutes. Makes 1½ doz.

Tips for Tops

Frosting. Orange, mocha or chocolate.
Topping. Crushed peanut brittle folded into whipped cream.

A la mode. Coffee or vanilla ice cream.



BAKER'S BLUEPRINT

2½ Cups Crumbs take 28 crackers. Crush on waxed paper with rolling pin.
1½ Cups Nutmeats take approx. 1 lb. English walnuts in the shell.

*Smart Shoppers
Buy Beet Sugar*

CONSUMER SERVICE • WESTERN BEET SUGAR PRODUCERS, INC.
P.O. BOX 3594, SAN FRANCISCO 19, CALIFORNIA

Recommended By Many Leading BABY DOCTORS to relieve distress of CHEST COLDS

And Break Up Painful Localized Congestion

A number of baby doctors today are recommending Child's Mild Musterole to promptly relieve coughs, sore throat, localized inflammation and to break up congestion in nose, throat and upper bronchial tubes of the lungs. Just rub it on!

Musterole instantly creates a wonderful sensation of protective warmth on chest, throat and back and brings amazing relief. There's also Regular and Extra Strong Musterole for adults.

Child's Mild

MUSTEROLE

The Poet's Corner

1952

As soft as falling snow he comes
Nor can you touch, nor can you see,
Yet he has gifts of seasons four
Filled with hope for you and me.

Spotless, newly born is he,
Bringing greetings of good cheer,
Blessed treasure from above,
1952! . . . New Year.

—By Camilla Walch Wilson.

Owed to an Old Flame

I used to call you Harry
When you had a thick black mop,
Now should I call you Surrey
When you've just a fringe on top?

—By Bula Lemert.

Bedtime for Johnny

Johnny, at bedtime, stalls for one more hour
He needs a drink; a tissue for his nose;
Another bathroom trip is now a must
He wants his door ajar, it must not close.
His fuzzy lamb eludes his chubby hands
"Come find it now!" Also his teddy bear!
His well-chewed gum must be laid up till dawn,
One blanket's not enough, he wants a pair,
Hungry now, he wants a glass of milk;
Nose drops; another tissue for his nose;
Then after one dire threat and one more drink
He settles down in sweet repose.

—By Mary Holman Grimes.

In Spite of Plumpness

When hubby has been
To the very big city
Where all the fine ladies
Are stylish and pretty
With paint and fur coats
And the slim silhouette,
I bake apple pie and
I'm His still, you bet!

—By May Smith.

Promenade All!



C7232

Do-si-do and away you go! Here is the cutest, gayest embroidery idea, ever. Use these square-dance motifs on kitchen towels or all round the hem of your new square-dance skirt. Easy to embroider. Pattern includes transfer of 6 motifs 7 by 9 inches.

Send 25 cents for pattern to the Needwork Editor, Kansas Farmer, Topeka.

Attention, Please!

To Story-Writing Contestants

We need help. We have received several library stories from contestants who failed to identify themselves fully. We need the following information. Richard Smith, a 7th grader, did not give his address. Neither did Larry Sutherland, but indicated he attended the Rosemount school. The town is missing. The same is true for Patricia Rogg, who sent us a typewritten story, but no address.

In addition, we have received 2 stories with neither name nor address. We have the name of Gene Robinson, of Hallowell, on an envelope but do not know which of the 2 stories he submitted. If you think you might have failed to give your name and address, please let us know at once, so you may be considered when making the awards. Write to Florence McKinney, Women's Editor, Kansas Farmer, Capper Publications, Topeka, Kansas.

The Party Line

"Grandma Harris took sick last night,
Had a temperature as high as a kite,"
"Someone better check on young Jim's fun.
He didn't get home Sunday night till half past one."
"Doris and Bob are grandparents now. You know, their girl that married a Dow."
"You mean you hadn't heard? The Jones girl is to be married the third?"
(They also know all those secrets of mine,
For we are neighbors on a party line.)

—By Margaret Fenn.

Potato Yeast Bread

My mother used potato yeast
For foot-high loaves of bread;
She "set" it in an old brown crock
Before she went to bed.

And be he just a little boy
Or one that's fully grown . . .
Her homemade bread could touch the spot
Inside his hunger zone!

—Edna Hull Miller.

Warm the Eggs

Eggs taken out of the refrigerator and warmed to room temperature will give better volume when beaten. This may make the difference between a good cake and a superior one. If whites and yolks are to be separated do that when the eggs are chilled because the job is easier then. Don't beat them though until you are ready to add the eggs to the recipe.

An Onion Is a Cook's Best Friend

(Continued from Page 17)

add more liquid if needed. Fill each center with stuffing and bake in moderate oven (350°) for about 20 to 30 minutes.

French Fried Onions

3 large onions, in ¼-inch slices
milk to cover
½ cup flour
salt

Peel onions and slice crosswise and separate into rings. Cover with milk and let stand for about ½ hour. Drain in heavy absorptive paper. Dredge with flour and allow to dry for 30 minutes. Fry in deep fat at 375° until brown and crisp. Drain on paper before serving.

BAKE PRIZE WINNERS EVERY TIME

WITH RED STAR Special Active DRY YEAST

Senior winner, Grand National Baking Contest, Waldorf-Astoria, Mrs. Romer Bullington, Tyler, Texas

HONEY TWIN ROLLS

Here are honey-flavored rolls that you don't have to shape or knead. All you do is stir them up, let them rise, then spoon them into muffin tins.

BAKE at 375° F. for 12 to 15 minutes. MAKES 3 dozen rolls.

DISSOLVE 2 packages RED STAR Special Active Dry Yeast (or 2 cakes compressed yeast****) in 1 ½ cups warm water (110° to 115° F.). ADD ½ cup honey, ¼ cup melted shortening, 1 egg, well beaten, 2 teaspoons salt*. BLEND IN 4 cups sifted Pillsbury's Best Enriched Flour**; beat for 1 minute. ADD 2 cups additional sifted Pillsbury's Best Enriched Flour; mix until smooth. Place in greased bowl and cover**. LET RISE in warm place (85° to 90° F.) until double in bulk, about 1 to 1 ½ hours. STIR DOWN dough.

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

**If desired, dough may be refrigerated up to two days.

***If compressed yeast is used, dissolve in 1 ¼ cups lukewarm water.

RED STAR IS THE FIRST 3-WAY IMPROVED DRY YEAST

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



RED STAR YEAST MILWAUKEE

A Country Woman's Journal



By MARY SCOTT HAIR

"Life is arched with changing skies,
Rarely are they what they seem.
Children we of smiles and sighs
Much we know, but more we dream."

—Isaac Watts.

THE morning was filled with the usual Saturday morning's clutter of kitchen chores, plus some of the cut-offs from earlier in the week. And long before time to eat the noon meal, was hungry and weary, the kind of tired feeling that seems to engulf a body and makes it difficult to tell whether it's a mental state of fatigue or actually physical.

The weather (which can always be blamed for many ills) had been as temperamental as a prima donna with scarcely a fair day in a month of Sundays. Melting snow and clush underfoot, leaden gray skies with no hint of sunshine in the rifts and the whole panorama of outdoors I looked out on, from my kitchen door, seemed as bowed down as my own sagging spirits.

It could have been the copy of Thoreau I'd been reading that gave me the idea, for as I washed the dishes from the noonday meal I remembered lines from his chapter on Walking: "In my afternoon walk I would fain forget all my morning occupations and my obligations to society." And in the hurry to finish the kitchen sink I told myself, "I'll go for a walk, over in the woods beyond the west pasture!"

Making ready for my journey . . . extra anklets to fill up my stout walking shoes, a short warm coat for easy climbing, wool gloves and kerchief and a small, hard apple from the cellar for munching . . . my book companion reminded me: "It sometimes happens that I cannot shake off the village. The thought of some work will run in my head and I am not where my body is. What business have I in the woods when I am thinking of something out of the woods?"

The sheep and old Bill, the horse, watched me gain the crest of the hill where I braced myself against the west wind for a moment before plunging down the other slope and under the fence for the woods. Two crows flapped leisurely overhead hardly glancing toward me, and a squirrel scampered ahead of me under the fence, then up a giant oak, as if he considered himself sort of an unofficial guide or an ambassador of the wildwood. And so I entered a strange country, as it were, so near and yet so far, from my daily round of living.

No singing winter birds broke the gray stillness, just the crisp crackle of brown leaves where the snow had melted and the leaves were dry, and the soft thud of footsteps where moss and dead grass held oozing moisture from the melting snow. The sedge grass whispered ever so faintly as I threaded my way in and out of its jungle. At last I came to a little seeping spring in a draw which birds and wild creatures must have claimed as their own. Low-boughed cedars up the little draw cradled nesting birds in seasons past, for now the bare, brown homes bore testimony of their homing chores. And some of the very same birds, perchance, loved the small oasis and remained, for other signs told of small bodies huddled together against the storms, safe and warm amidst the shelter of the cedar's thick green boughs.

For February Parties

Our two party leaflets, "That February Party," and "Hearty Party for Valentine's Day," offer good suggestions for invitations, decorations, entertainment and refreshments. Write Entertainment Editor, Kansas Farmer, Topeka, and enclose 3c each for these leaflets. Your order will be given prompt attention.

I loved the way the woods held patches of snow, as if loath to let the gleaming white substance go the way it came, in silence! Heaped in little hollows of leaves on the north slope were little snow worlds no larger than a dinner plate, not melting but carefully preserved with the same driven whiteness and quality in which it fell, the brown leaves seeming to stand guard all the while. And there were larger patches among the cedars and in the brown grasses.

And so I shuffled along and the sound of brown leaves underfoot was music to my soul. The apple gave out and I nibbled a twig. Feeling rested and refreshed, tho how much later I hardly dared guess, I climbed the hill, slid under the fence and up thru the last bit of woods. The sun broke thru the clouds in a sudden burst of brightness. That I considered a good omen! As I trudged homeward, the warm sun to my back, I promised myself I'd walk again, soon, over in the woods beyond the west pasture.

Books On Review

My Neck of the Woods

This time Louise Dickinson Rich, the author, tells us about her neighbors in the far north of Maine. In her previous books she told about the country, its climate and her life.

For the stay-at-home traveler we highly recommend "My Neck of the Woods." You'll love every chapter. Published by J. B. Lippincott Company, Philadelphia, Pa.

Help Your Child

For the young mother and father, we think this book will be helpful. Entitled "How to Help Your Child Develop Successfully," written by B. Von Haller Gilmer, it offers sound professional advice in the everyday language you can understand. Published by Prentice Hall Publishing Company, New York. Cost \$3.95.

Just Fine for School

"That Curious Age," is ideal for a school program. Five little folks have short recitations on the subject of nursery rhymes. It's humorous and entertaining. To obtain the leaflet, send 3c to Entertainment Editor, Kansas Farmer, Topeka.

Parties on a Budget

Here is a good book for clubs, schools and church groups. Many of the parties are suitable for home entertainment, too. It is chock-full of ideas and directions to help you with every detail. It includes parties for adults, bridal showers, stork showers, children's parties, anniversaries and games for any season of the year. "Parties on a Budget" is written by Louise Price Bell and is published by Prentice-Hall Publishing Company, Inc., New York City. See your nearest bookstore or library. Cost \$2.95.

Pioneer Days in Kansas

Here is a new book by a Kansas pioneer, Roderick Cameron, now 91 years old, of Belleville. His story of the early days in Northwest Kansas has an intense interest for Kansans of the present generation.

It was May, 1878, when the Camerons moved to Kansas from Minnesota, lured by free government land. House building, farming, Indian raids, church life and their neighbors are all discussed by the author. It is well illustrated with pictures of early day towns in Northwest Kansas and with several early day settlers.

"Pioneer Days in Kansas," may be purchased from the Cameron Book Company, Belleville, Kan. Cost \$3.50.



HY-LINE FEED COST Per Case of Eggs WAS LESS BY \$1.44 (17%)

An analysis of 406 "divided flock" tests in 18 Midwestern states shows: When Hy-Line Hybrids averaged 65% production, standard-breds and crossbreds averaged 50% production. At \$4 per 100 pounds (avg. price of grain and mash), Hy-Lines averaged \$6.93 feed cost per case of eggs; other chickens averaged \$8.37 per case. Hy-Lines' feed cost was less by \$1.44 or 17%.

In Six Kansas and Missouri Tests . . .

HY-LINES AVERAGED:

-74 lbs. LESS FEED Per Case of Eggs

-5847 MORE EGGS Per 100 Birds Housed

These were the Hy-Line advantages over their standard-breds and crossbreds reported by six farmers for 11.8 months of the laying year, 1950-51. These farmers conducted "divided flock" tests, and kept daily records on both feed consumption and egg production.

The table below shows their results:

Name and Address	Breed	Months in Lay	Lbs. Feed Per Case of Eggs	Eggs Laid (Hen-Day) Per 100 Birds
A. O. January Little River, Kan.	Hy-Lines	12	205.2 lbs.	17,407
Roy Wright LeRoy, Kan.	New Hamps	12	408.3 lbs.	10,569
Leo Wendling Halstead, Kan.	Hy-Lines	12	183.3 lbs.	24,703
Eldon Peterson Drexel, Mo.	White Rocks	12	212.4 lbs.	18,889
W. F. Wiebe Whitewater, Kan.	Hy-Lines	11½	143.1 lbs.	24,225
F. A. Slead Lebo, Kan.	Leghires	11½	204.0 lbs.	18,351
	Hy-Lines	11½	149.4 lbs.	25,884
	Austra-Whites	11½	182.1 lbs.	21,646
	Hy-Lines	12	207.3 lbs.	21,450
	Leghires	12	256.2 lbs.	15,707
	Hi-Lines	12	147.0 lbs.	25,019
	Leghorns	12	216.9 lbs.	18,442
SUMMARY: HY-LINES VS. OTHER CHICKENS				
Averages of Six Feed Tests	Hy-Lines	11.8	172.5	23,114
	Other chickens	11.8	246.8	17,267

HY-LINE ADVANTAGES

74.1 lbs. Less Feed Cost Per Case 5,847 More Eggs Per Case

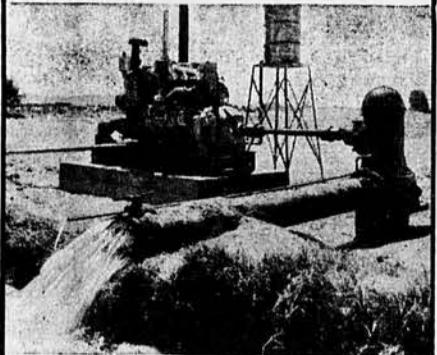
RAISE HY-LINE CHICKS IN 1952

Share in the benefits of Hy-Lines' greater efficiency . . . averages of about an extra case of eggs per month per 100 birds housed with LESS FEED COST PER CASE. Raise Hy-Line Chicks in 1952.

Send for NEW FREE HY-LINE CHICK CATALOG



Don't Gamble On Water for Crops



Investigate The JOHNSON Right Angle DRIVE

The Johnson Gear Drive has outstanding engineering features that pay big dividends... delivers unfailing service, 24 hours a day—day in and day out—assuring low-cost water for bumper crops and more profits.

Thousands in successful use on farms all over the United States. Readily available in types and sizes to meet the needs of small or large acreage. The Johnson Right Angle Drive excels in these features:

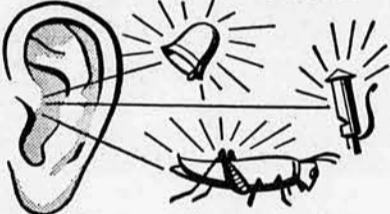
- MODERN DESIGN
- COOLER OPERATING TEMPERATURE
- LUBRICATION OVER WIDE SPEED RANGE
- QUIETNESS OF OPERATION
- ALL WEATHER SERVICE
- COMPACTNESS • EFFICIENCY
- LOW COST OPERATION

Don't gamble on rain for thirsty crops. Get the facts on the Johnson Gear Drive. Send for FREE Illustrated Folder.

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Please send me FREE Illustrated Folder

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RFD & BOX NO. _____
CITY _____ STATE _____

EAR NOISES?



If you suffer from those miserable ear noises and are Hard of Hearing due to catarrh of the head, write us NOW for proof of the good results many people have reported after using our simple home treatment. NOTHING TO WEAR. Many past 70 report ear noises relieved and hearing improved. SEND NOW FOR PROOF AND 30 DAYS TRIAL OFFER.

THE ELMO CO.
DEPT. 2KA1 DAVENPORT, IOWA

Effective Cough Syrup, Mixed at Home for Economy

No Cooking. No Work. Real Saving.

Here's an old home mixture your mother probably used, and is still one of the most effective for coughs due to colds. Once tried, you'll swear by it.

Make a syrup with 2 cups granulated sugar and one cup water. No cooking needed. Or you can use corn syrup or liquid honey, instead of sugar syrup.

Now put 2½ ounces of Pinex into a pint bottle, and fill up with your syrup. This makes a full pint of cough medicine, and gives you about four times as much for your money. It keeps perfectly and tastes fine.

And you'll say it's really excellent for quick action. You can feel it take hold swiftly. It loosens phlegm, soothes irritated membranes, helps clear the air passages. Thus it makes breathing easy and lets you get restful sleep.

Pinex is a special compound of proven ingredients, in concentrated form, well-known for its quick action on throat and bronchial irritations. Money refunded if not pleased in every way.

FOR EXTRA CONVENIENCE GET NEW READY-MIXED, READY-TO-USE PINEX!

No. 1 in flower series written by a man who grows them by the acre

Sweet Peas

By FRANK PAYNE

HOWDY, Flower Lovers! Here I am, back again with 11 more flower articles. Now for the next 6 months we invite you to look in Kansas Farmer, read, clip and save these flower stories for your garden scrapbook. May be of help to you or some amateur who needs the very information the article may contain.

This New Year of 1952 is one in which all of us should try hard to beautify our home farmsteads with lots of flowers to help make this old world a more beautiful place. What is more, there is real pleasure in doing it. Of course, there will be some work for you to do, but nothing good ever is done unless we work for it. I found that out many years ago.

Now this article reaches you early in January. Nevertheless it isn't a bit too early to start planning on what flowers you intend to grow. Many happy hours can be spent looking thru seed catalogs that begin to reach your mailbox about this time of year. Of course, you must consider SWEET PEAS this year, everyone loves them and they are easily grown. They have so many uses, too. They are beautiful to cut for a fresh bouquet each day for the dining table or any other place in your home. They are easily arranged in a small vase or flower bowl, and will keep well for quite a while if you cut them early in the morning before the sun gets too hot.

To Get More Blooms

The more blooms you cut the more come on. In fact, if they are not kept cut about every other day, they will go to seed and stop blooming. Be sure to remember this if you want your sweet peas to keep right on blooming for a long time.

Some folks may tell you they never had much luck trying to grow sweet peas. Chances are they didn't plant them early enough. Remember, just as soon as frost is out of the ground, early in March at potato planting time, you should sow seed of sweet peas outdoors. Dig a trench about 2 feet wide and 1½ feet deep. Six inches of old, well-rotted stable manure can be placed in the bottom of this trench with 6 inches of good, rich soil placed on top of the manure. This trench can be made in the fall or right now if the ground is not frozen.

Seed sown in a double row about 3 inches apart in the row, any time in March or by the first week of April at latest, should only be covered up with ¼-inch of soil. Soaking the seed over-

night in lukewarm water will help hasten germination.

As plants grow taller, real fine soil can be drawn around them, but don't cover the crown or top of the plants. The idea on sweet peas is to have the roots deep in the ground to help them stand hot weather.

Supports in the form of chicken wire, brush, stakes or strings supported by posts should be supplied early. A mulch of well-rotted manure early in June will help keep plants producing fine flowers for a longer time. In dry weather a good watering, a heavy soaking, quite often will help prolong the life of the plants. Again I want to repeat, BE SURE TO KEEP THE FLOWERS PICKED so they will not go to seed.

These Are Best

There are many varieties and types of sweet peas, but the best for outdoor culture are summer or late-flowering Spencer varieties. You can buy these from any seed store. The price is low. Only 10 or 15 cents a packet makes them real reasonable. Maybe that's why sweet peas are often called the "Poor Man's Orchids."

They come from the legume family which is a quite common name to most farmers, so by that you know they do not like an acid soil. Aphis or green plant lice is about the only pest that bothers them most but they are easily kept under control if you use Black Leaf 40 (nicotine sulfate) or dust with tobacco dust before the lice get too old. Watch under the leaves as that is where they get started before you notice their damage.

Now there is a hardy perennial sweet pea you can grow along a garden fence and leave right there for many years. They are called LATHYRUS LATIFOLIUS or perennial sweet peas. This type is best started from seeds sown in the fall right where they are to be grown permanently. They resent being dug up and transplanted as the roots are long and fleshy. The perennial sweet pea can stand lots of hot weather and will do real well right out in the open sunshine. They sometimes grow to a height of 8 feet in average garden soil that is not acid. There are 3 varieties: ALBUS has white flowers, ROSEA is a clear pink and SPLENDENS is a dark red.

Next fall is as soon as you could plant the perennial seeds so the annual Spencer type is the one for you to now plan on for early spring sowing.

(My next article will be all about POPPIES.)

GRANDMA By Charles Kuhn



OH, I JUST WANTED
T' BE SURE YOU WERE
NEAR —



WHILE I TRY OUT MY
NEW ROLLER SKATES!!



Stop Taking Harsh Drugs for Constipation

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

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

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

Gentle, effective relief

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

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25¢
size
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Mail bottle to Box 280, N.Y. 18, N.Y.

DR. CALDWELL'S
SENNA LAXATIVE
Contained in pleasant-tasting Syrup Pepsi

LP-GAS MANIFOLDS

Most complete line now available. All farm tractors that have been or is being converted to LP-Gas should have a LP-Gas manifold. LP-Gas is a very high octane fuel and requires an extra cold manifold. Most tractors that have been converted to LP-Gas are equipped with a gasoline model manifold. LP-Gas manifolds are much colder, and their use will increase horsepower and give greater economy. Models available for International, Allis Chalmers, John Deere, Ford and Case Tractors. Send for literature and prices.

CANFIELD SUPPLY CO.
FAIRFIELD, IOWA

get more eggs from less feed

Feed only high egg producers—sell low producing birds for meat—feed carefully, to eliminate waste—have plenty of fresh, clean water available—keep poultry house clean, the hopper full of Pilot Brand Oyster Shell.

By following these simple rules you will produce more strong-shelled eggs at less cost; thus increasing profits.



FOR POULTRY

In the bag with the big blue Pilot wheel
At most good feed dealers

OYSTER SHELL PRODUCTS CORP.
New Rochelle, N.Y. • St. Louis, Mo.

New Hog Disease Sneaks into Herd

WILL atrophic rhinitis become the major hog disease in Kansas? "Yes," says Dr. M. J. Twiehaus, of the school of veterinary medicine, Kansas State College. Doctor Twiehaus made this prediction in a report recently to agents attending the annual Extension conference, at Manhattan.

"Atrophic rhinitis has existed in Europe many years and came to the U. S. via Canada," says Doctor Twiehaus. It has existed in Kansas 4 or 5 years and is spread chiefly thru transfer of breeding stock, he reports.

First indication of infection is sneezing. Only 1 to 3 pigs in a litter may be affected the first year infection is in the herd. Most of the herd can become infected before the owner is aware of it. Pigs start sneezing at 2 to 4 weeks old. Later, the snout may become deformed, pulling left, right, or upward. Pig shows a rough coat about weaning time and will not gain well. It will take 7 to 9 months or more to reach market weight.

A new hog disease—Ictero-Anemia—was reported at the meeting by Dr. E. J. Splitter, of Kansas State College. This disease was first noticed about 1½ years ago. Ictero-Anemia causes destruction of red blood cells thru parasites that attack red cells. The disease is similar to anaplasmosis in cattle.

continuing mash and finishing out with milo grain. "We had turkeys," he says, "that fattened the last 8 weeks on nothing but milo grain, grass and water at a cost of 11½ cents a pound, compared to 17 cents a pound for full-fed birds."

Since sorghum grains are not always palatable to the birds, Professor Payne suggests grinding and pelleting. "This method of preparation has been highly successful," he reports.

Cannibalism is due to speeding up egg production thru breeding, Professor Payne says. "We have increased production of layers thru breeding at the rate of 3 eggs a year," he says.

Discussing "barebacks," Professor Payne points out that in good layers the feed ingredients go into egg production. The hen's feathers become brittle for lack of nourishment and break off. The condition continues until after the hen molts. To protect chickens from picking, Professor Payne suggests use of pick guards or debeaking and a good feeding program. In debeaking be sure to cut the beak half way back to the comb. This will mean birds must be hopper fed.

A new treatment for prevention or cure of coccidiosis was explained at the meeting. Known as SQ, the medicine is given in feed. Better see your feed

How Young Folks Help . . .

Older farm youths in Kansas are making a fine contribution to many rural communities thru their Rural Life Association groups. Activities of one of these fine groups will be featured in the January 19, 1952, *Kansas Farmer*. You won't want to miss reading about these progressive young people.

"Some increase in livestock diseases in Kansas," says Dr. L. M. Roderick, of the college, "is due to farmers expanding herds without a corresponding expansion of shelter and other handling facilities."

Discussing use of hormones on market poultry, Prof. Paul Sanford, of the college staff, said: "Best results on growth of poultry following use of hormone pellets occurs 6 weeks after pelleting. Two pellets can be injected in the neck of the bird at a cost of 5 cents. Birds being caponized in this manner should be kept isolated from the flock during the fattening period for most efficient gains. It might be a good idea for farmers with hatching flocks," says Doctor Sanford, "to use pellets on their cockerels at the end of the hatching season."

What broke the egg market in early December? Prof. L. E. Payne, head of the poultry husbandry department, Kansas State College, told agents that good weather over the entire country in November boosted egg production 24 per cent above normal. "High retail egg prices during the same period also tended to depress consumption," he says.

Watch That Litter

Built-up litter is still recommended for laying flocks but, says Professor Payne, "We cannot recommend it for chicks. Recent experiments show if litter is kept too long, ammonia in the litter will irritate eyes of chicks, there will be an increase in coccidiosis among chicks and an increase of roundworms." Professor Payne also reports cases have been reported of mites and lice appearing in litter if kept too long. Lindane or chlordane are recommended for ridding litter of mites and lice, but the college is not yet ready to put out recommendations on rates of application.

"Commercial poultry feeds are becoming so efficient," says Professor Payne, "there may be a tendency for poultrymen to get careless and not watch their flocks closely enough, thus allowing disease or other problems to get a head start."

Discussing how to reduce the cost of feed, Professor Payne points out that milo or any grain sorghum can be substituted for corn with addition of vitamins. In turkey feeding trials the college has discovered when turkeys reach 20 weeks old the last 8 weeks of the fattening period can be achieved by dis-

dealer. There also is a new drug that can be added to the turkey feed to cure blackhead.

"Poultry in Kansas is more important economically than most folks realize," says M. E. Jackson, Kansas State College Extension poultry marketing specialist. "Fluid milk in Kansas has an annual value of about 28 million dollars but eggs alone bring 42 million dollars a year to Kansas producers," says Mr. Jackson. He believes two things most needed in Kansas are larger-size farm flocks on those farms where they can become a major project, and a graded market program for the entire state.

A discussion by Dr. H. H. Laude, Kansas State College agronomist, highlighted the crops and soils subject-matter session held for county Extension agents during the annual conference in Manhattan.

Can Get Too Wet

Using figures kept over a long period, Doctor Laude pointed out the effect of rainfall, temperature and other factors on corn and wheat production. There can be too much rainfall for corn in July and August, for instance.

When rainfall in Eastern Kansas is above average, yield of wheat is below average, data over the 40-year period from 1911-1951 show. Records at the Hays station show quality of wheat is relative to environmental conditions. For instance, whenever rainfall is above average, protein content of wheat is below average.

Use of fertilizer has increased corn production greatly, Dr. Floyd Smith told the agents. Average increases as the result of fertilizer in 1951 were 20 bushels an acre, about half the increase shown in drier 1950. Smith said nitrogen generally is the beneficial element.

Dr. R. V. Olson, discussing the geology of soils, said there are many types of soils in Kansas despite the fact a large portion of the state is covered with loess from a depth of a few inches to 100 feet. It is believed one half of the soils in Kansas have developed from this silty, loessial material.

However, he added, 34 different soil types have been mapped in Brown county and 69 different types in Geary county.

Climate is considered the major factor in soil development, Olson said. Other factors include topography, temperature and vegetation.

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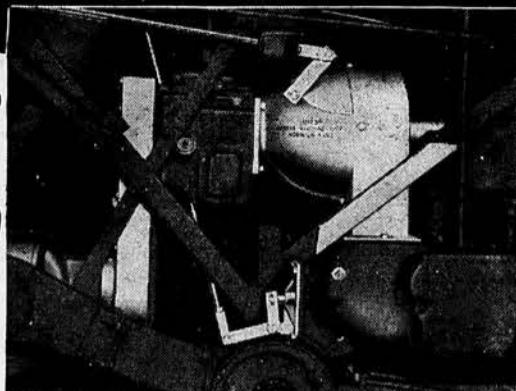
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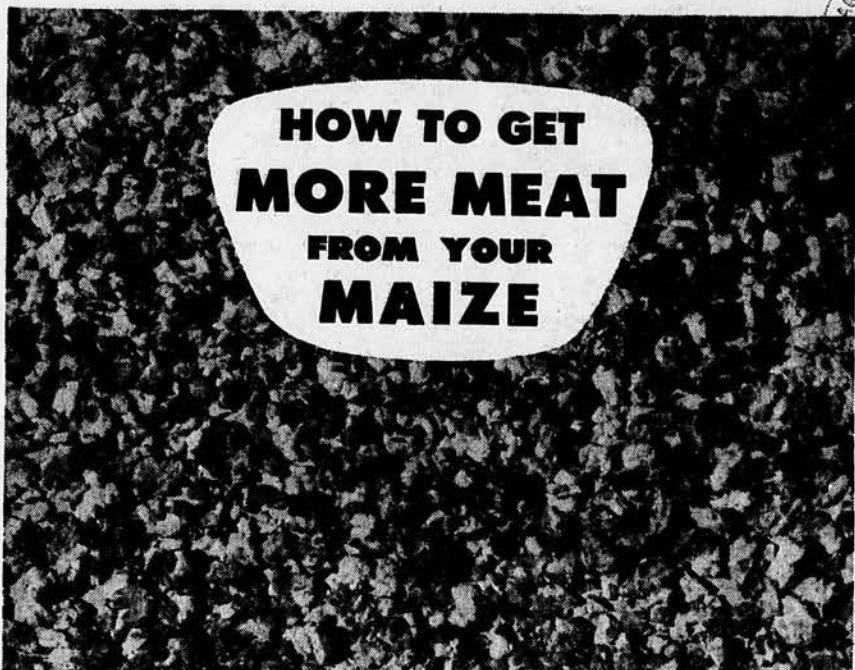
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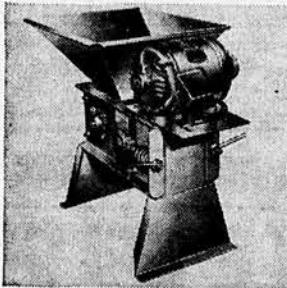
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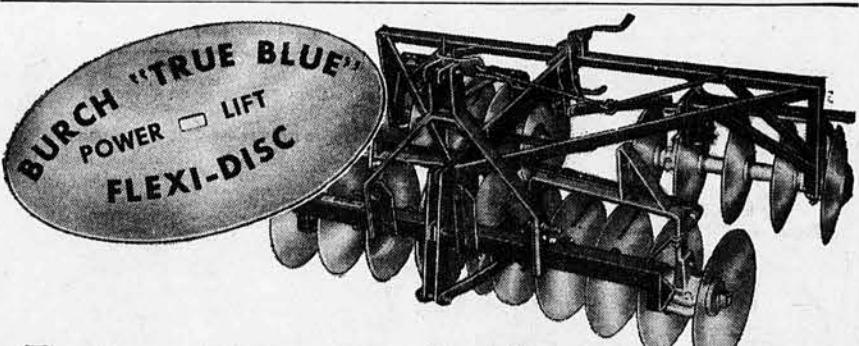
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Deduct Flood Losses From Income Tax

By H. C. LOVE

MANY farm families suffered flood losses in 1951. Losses were so severe that to add the burden of income tax seems like adding insult to injury. Congress recognized that farmers and others needed some relief in this matter. Under a new provision of the Revenue Act passed October 20, 1951, losses from fire, storm or other casualty, or from theft, sustained by an individual after December 31, 1950, are allowed in computing net operating loss deductions for years ending after 1948.

This means a refund of part or all Federal Income Tax you paid in 1950 may be due if you suffered flood or other casualty loss in 1951 and have a net operating loss this year.

In absence of proof of value after the loss, the amount of repairs may under some circumstances be used to measure amount of loss. The commissioner has acquiesced in one decision, where the court noted the amount of the repairs was not excessive and did not cover all the damage. In general, however, the bureau continues to apply the value test.

Important Steps

If you suffered severe losses this year and believe a refund in full or in part of your 1950 Federal taxes is due, here are some points to use:

1. Casualty losses must be claimed in the year they occur. If refunds are due they must be claimed. Refunds are not automatic.

2. Casualty losses are limited to cost or adjusted cost basis of the property.

3. You must be able to prove your loss. Reasonable proof is required.

4. Appraisal of the property by competent disinterested persons is usually a satisfactory method. The appraisals should be signed and retained for your records.

5. The appraisal should show 4 things: (a) Cost of property damaged or lost. (b) Fair market value of property just before loss. (c) Fair market

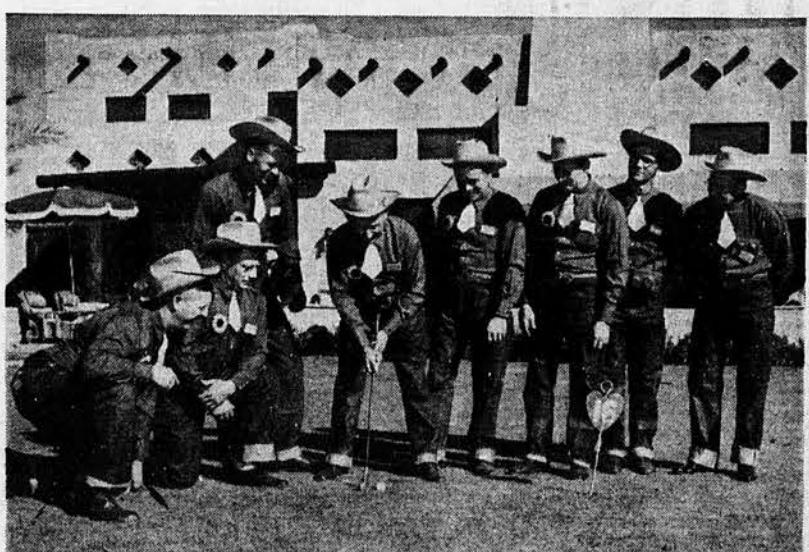
Here are a few examples of casualty loss accounting:

Kind of Property	Cost	Basis at Date of Loss	F. M. V. at Date of Loss	Extent of Loss	F. M. V. After Loss	Net Casualty Loss
1. Farm dwelling and contents	8,000	8,000	12,000	Almost total loss	\$1,000 salvage value	8,000
2. Growing crops	2,500		8,000	Total	0	0
3. Raised livestock	Raised	0	1,500	Total	0	0
4. Purchased livestock	1,000	900	1,200	Total	0	900
5. 160 acres cropland	16,000	16,000	32,000	Covered with sand, gravel & debris 12" to 30" deep	9,000 (cash basis only)	7,000
6. 100 acres pasture	4,500	4,500	6,500	50 acres covered with sand, debris & big holes	3,000	1,500

In items 2 and 3, growing crops and raised livestock have all their production costs charged off in the normal course of business hence such casualty losses are never recognized for tax purposes. Item 4 purchased livestock is always taken into account by the taxpayer who uses an inventory in his accounting. The loss of such animals would be reflected by a decline in the closing inventory. For the cash basis taxpayer the cost of purchased livestock is always charged off when it dies. In such a case a casualty loss becomes an ordinary operating expense. If your 1950 income will not take up your casualty losses they may be carried forward 5 succeeding years in chronological order.

NOTE: Another method of figuring flood losses on property that is partially damaged has been recognized by the Bureau of Internal Revenue and is known as shrinkage of actual value. This will be discussed in the January 19, 1952, issue of *Kansas Farmer*.

Kansas Farmers Visit Arizona



THESE 8 HAPPY FARMERS are state winners in soil-conservation work, shown at Wigwam guest ranch at Litchfield Park, Arizona, guests of the Goodyear Tire & Rubber Co., of Akron, O., sponsors of the annual contest. Wearing symbolic sunflowers, they are shown enjoying a putting contest in the warm sunshine. They began their return trip to Kansas on December 14. Left to right are Elton Allen, Soldier; Leo Spielman, Baileyville; Wilbur Wurzbacher, Sabetha; F. M. Labbe, Onaga; Harlan Wittmer, Bern; Lloyd Nightingale, Corning; Louis Bueching, Vermillion, and David Luthold, Bern.



Fertilizer Proves Value in Use

(Continued from Page 8)

Valley, Hutchinson and Manhattan. However, while phosphorus applications had little effect in all other locations, applications at Hutchinson gave decided increases in yields, showing need for elements is not uniform and should be determined by soil test.

Consistently high wheat yields were gained from 100-50-0. At Mound Valley, 100-50-25 and 100-50-0 were far superior to other treatments used on wheat. Working with oats, Mr. Gingrich reported nitrogen gave increased yields in all cases, while phosphorus and potassium had little effect. Treatments 50-50-25, 100-0-0, 100-50-0, 100-0-25 and 100-50-25 were in the upper 7 in oats yields at all locations tested. Nitrogenous fertilizer applied at seeding gave higher oats yields than all nitrogen being top-dressed or half applied at seeding and half top-dressed.

Superphosphate and ammonium phosphate were superior to ammoniated phosphate as a source of phosphorus for wheat, according to field and greenhouse trials, L. C. Williams reported. Superphosphate led in yield increases when applied at 50 pounds per acre, and this rate of application gave higher yields in all cases than when 25 pounds of a phosphorus compound were used.

Can Handle More Samples

R. V. Olson summarized soil tests made in the state, showing availability of various nutrients in each county. It was pointed out that the soils laboratories in the state can easily handle more samples than they are now receiving.

Light lime, manure and superphosphate proved the best treatment in studies at Thayer in a 2-year oats-corn rotation, V. H. Peterson reported. Runner-up on alfalfa tests was lime, superphosphate and potash. Response of the potash has been steadily increasing thru 12 years of tests. Residual effects of this treatment carried over for the same effect on a field of alfalfa plowed for corn.

Nearly Doubled Milo Yield

Nitrogen nearly doubled milo yield in a test at Garden City reported by C. W. Carlson, when 100-0-0 gave 68.8 bushels per acre in Finney county and 43.4 bushels in Stevens county. In Finney, 100-100-0 gave a lower yield, but went up .4 bushel in Stevens. Triple superphosphate at 400 pounds per acre gave 5,982 pounds of alfalfa per acre. Lesser amounts per acre gave correspondingly lower yields, Mr. Carlson's study showed. Work in Southwest Kansas where milo chlorosis is a problem, showed ferrous sulfate to be a good investment. It raised the yield from 2.2 bushels per acre where no spray was applied to 49.7 bushels where spray was applied 3 times during the season, 40 gallons per acre each time. Spray was applied as soon as chlorotic conditions were visible. On test plots, milo was planted June 12, sprayed June 30.

In fertilizing native grasses, F. W. Smith reported nitrogen, then phosphorus, then potassium, in that order, affected yields at Manhattan and in Southeast Kansas. Here again, tho, results differed considerably in areas.

Combination of 30 pounds available P₂O₅ and rock phosphate gave highest corn yields at Mound Valley and on wheat, at 1,000 pounds of rock phosphate, at Hutchinson. Superphosphate gave outstanding results in early season growth. This being a joint experiment, the amount of phosphate was limited. Heavier applications, the college officials stated, would have given greater yields.

Studying fertilizer needs for row crops, F. W. Smith explained, every possible combination of each of the fertilizer elements—nitrogen, phosphorus and potassium—was used to find elemental needs of crops. Studying rates of application, in the over-all picture, increasing rates gave increased yields, but at some specific points, an excess of a particular element stunted crops.

Time and method of application studies showed largest yields from corn when the complete fertilizer application was made at planting time and below seed level. Effect of plant population on corn yield showed a reduction in yield when no fertilizer was applied, but when applications were made, the yield was higher than corn planted to give a normal stand.

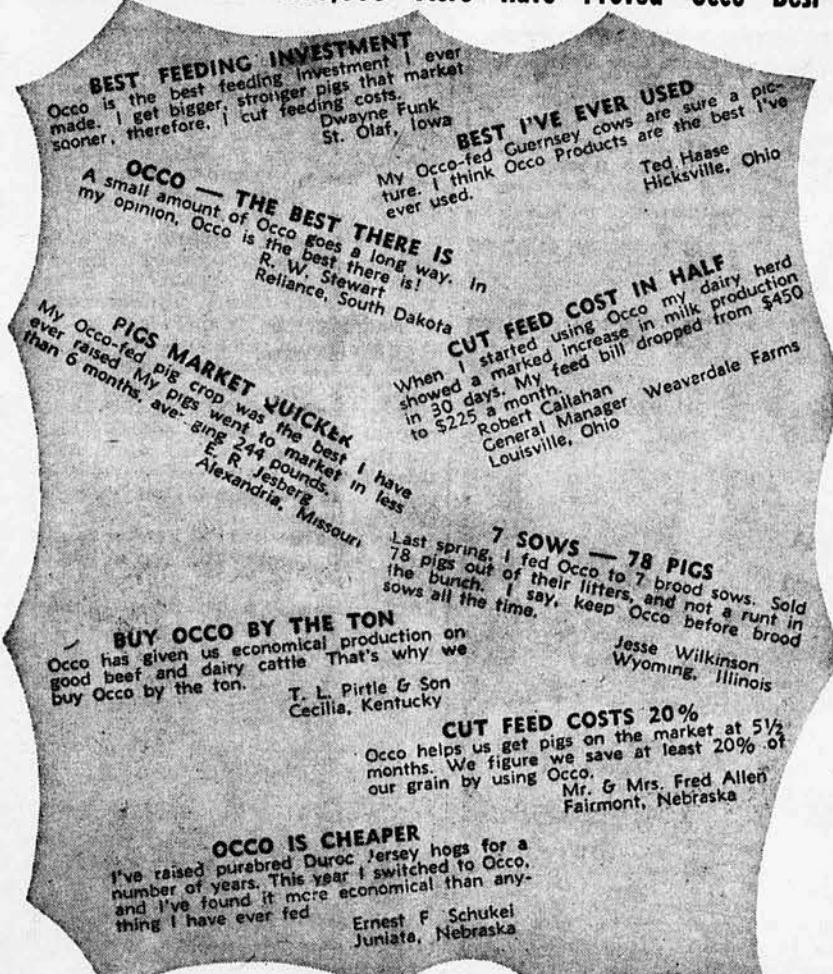
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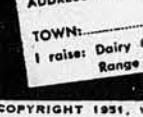
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Marketing Viewpoint

By C. P. Wilson, Livestock; Leonard J. Schruben, Feed Grains; Paul L. Elley, Dairy Products.

I have 10 Shorthorn calves weighing around 450 to 500 pounds born last March and April which I weaned last week. I intend to sell them sometime between now and June 1, 1952. When would be the best time to sell for highest prices? I am feeding sorghum silage and a little protein supplement, but no grain. Would it pay to fatten them on grain? I would have to buy grain.—J. T. W.

The cattle market has declined since October. Prices of calves are \$3 to \$6 per hundredweight lower than at that time. We do not expect calf prices to decline any further between now and spring. In fact, some rise in price may occur by the time the grazing season opens. It would seem late March or early April would be the best time to sell from a price standpoint. There is usually a strong demand for stocker cattle to put on grass at that time.

It probably would not pay to grain feed these calves this winter, especially if you need to buy grain. There is not much margin above feed costs under present conditions. When fat, these calves would come on the market in competition with fat cattle from the Corn Belt. It would seem more appropriate to keep these calves growing as stockers by feeding silage and supplement and sell them to someone wanting cattle to put on grass in the spring.

What is the comparative value of round ear corn and ground shelled corn?—W. H.

The remarks that follow assume you will use the grain in a balanced ration and that it is of good quality, such as ordinarily grown in Kansas. The only question then is whether to grind the corn and cob and feed ground ear corn or to shell the corn and then grind it for feeding.

When feeding milk cows and the ration is light on bulky concentrates, round ear corn is worth more on a pound-to-pound basis than when the ration contains more bulk from other sources. In most dairy rations ground ear corn is worth about the same as the amount of corn in the mixture. This would mean that, pound for pound, round ear corn is worth about 80 percent as much as ground shelled corn for feeding dairy cows.

In wintering beef calves on the deferred system, it is generally felt that round ear corn will give as economical gain as ground shelled corn when allowance is made for the cob. It is preferable to start calves on the ground ear corn since considerable bulk will be included in the ration anyway. Ground ear corn might be fed during the first 10 days of the full-feeding period if, during that time, a gradual reduction is made in the proportion of cobs in the ration until no cobs are being fed. Beef cattle can be finished on ground ear corn, but it takes longer to do that job and this means you will be selling your cattle at a time when the market is usually somewhat depressed seasonally.

Have you considered feeding grain sorghum in place of corn to your milk cows and to your calves this winter when grain sorghums are relatively cheaper?

What is the trend in milk production in Kansas? I understand many markets are short of milk.—J. N.

Kansas milk production has been falling off below the levels of 1950 since last June. October production was about 10 percent less this year than a year earlier. Recent estimates show November production in 1951 was only 173 million pounds compared to 193 million pounds a year ago. This decline has been reflected in sharply reduced butter and cheese production. Also many dairy markets have shipped in milk supplies from northern states.

Simple Cleaner

For wall cleaner, mix 1 cup of vinegar, 1 cup of kerosene and 1/2 cup of water. Shake this mixture well and apply it with a soft cloth to enameled painted walls and woodwork. Then polish with a dry cloth. If persistent marks are still in evidence, rub them lightly with silver polish.

Classified Advertising Department

KANSAS FARMER Classified Advertising

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Column	Cost Per Inches	Column	Cost Per Inches
1/2	\$4.90	2	\$19.60
1	9.80	3	20.40
Minimum—1/2-inch.			

Cuts are permitted only in Poultry, Baby Chicks, Livestock and Pet Stock Ads.

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Kansas Farmer, Topeka, Kan.

SEEDS

ALFALFA SEED

Hardy Northern Processed Alfalfa Seed, \$29.80; Sweet Clover, \$7.50; Red Clover, \$22.80; Timothy, \$6.75; Ladino, \$69.60; all per bushel. Browne, \$28.00 cwt. Many other seeds. Lowest direct to you prices, quick service, satisfaction guaranteed. Save money—send postal now for catalog, prices, samples.

JACK BOWMAN, Box 618, Concordia, Kan.

Berry's Sensational new Gro-Coated brand seeds give you greater insurance of better stands and bigger crops. Most amazing farm crop development since hybrid corn. Gro-Coated brand seeds tested and proven on thousands of farms nationwide. Write for free circular containing full details and special early season bargain prices. Western Alfalfa as low as \$22.50 bu.; Grimm, \$32.70; Red Clover, \$24.30; Sweet Clover, \$7.50; Alsike, \$28.50; Timothy, \$6.95; Ladino, \$12.50 cwt.; Browne, \$28.00 cwt. All prices for Gro-Coated brand seeds. All seeds tested and guaranteed satisfactory. Free catalog and samples. Write today. Berry Seed Co., Box 484, Clarinda, Ia.

King Ranch Bluestem Grass Seed. Planting instructions and prices. Guy Hutchinson, Uvalde, Tex.

PLANTS AND NURSERY STOCK

Red or Black Raspberries—Heavy 1 yr., 10—\$1.00. Apple or Peach Trees, leading varieties 2-3 ft. \$2.25. Concord or Niagara Grapes, 4—\$1.00. New Armore Strawberry, 100—\$2.00. Improved Bush Cherry, 3—\$2.25. Giant Victoria Rhubarb—large, 10—\$1.00. Washington Asparagus 2 yr., 25—\$1.00. Van Houtti Spirea, Forsythia, Deutzia, Red Weigelia, one each of all four, \$2.15; 2 each, \$4.20. All prepaid. Color catalog free. Sims Nursery Farms, Hannibal, Mo. Quick Bearing Fruit and Nut Trees, Shade Trees, Grape Vines, Berry Plants, Everblooming Rose Bushes, and Flowering Shrubs at Money Saving Prices. State and federal inspected. Satisfaction guaranteed. Write for free colored catalogue. East's Nursery, Amity, Arkansas.

FLOWERS AND BULBS

Free Rose Catalog—32 pages, full color, showing 1952 All-American winners and 140 varieties of rose garden favorites. Arp Roses, Inc., Box 178-KF, Tyler, Tex.

LIVESTOCK ITEMS

Make More Profit under average farm conditions. Raise Milking Shorthorns. For average farmer Milking Shorthorns are unbeatable. Produce 4% milk. Have greater carcass value than other breeds. Second to none in producing milk and meat from home-grown roughage and grain from your farm! Write for Facts and Free sample copy of Milking Shorthorn Journal. American Milking Shorthorn Society, Dept. KF-5, 313 So. Glenstone, Springfield 4, Mo.

RABBITS AND PIGEONS

Learn Up to \$400 monthly raising Angora or New Zealand Rabbits. Plenty markets. Particulars free. White's Rabbitry, Newark 71, O.

FARM EQUIPMENT

Gigantic Surplus Equipment Sale. Amazing bargains. Savings to 70%. Farm engines, A-C generators, hay winches, telephones, air compressors, paint spray outfits, water pumps, electric saw-drills, welders, chain saws, battery chargers, binoculars, contour levels, many other items. Freight prepaid. Rush card illustrated sale catalog. Burden Sales Company, 877 "O" Street, Lincoln, Neb.

Booms All-Purpose Wagon Unloader. Inexpensive, easily attached to your present wagon. Unloads five tons in seven or fourteen minutes. Free literature. Booms Silo Co., Harbor Beach, Mich.

Wire Winder. Roll and unroll wire with tractor power and speed. Free literature. Midwest Wire, Dept. 28, South St. Paul, Minnesota.

Coil Wire, bale ties, baler twine for sale. John Deere wire \$8.50 two spools. Osborn Hay Milling Company, Oshkosh, Wis.

MACHINERY AND PARTS

Tractor Parts at Wholesale Prices! Free to you now. 100-page Catalog listing thousands of new, guaranteed Tractor and Implement Parts for most Makes and Models. Get your Free copy Now—Beat high prices and shortages! Accessories, Tools and Farm Equipment for less! All merchandise brand new, money-back guarantee. Farm Stores at Wichita and Salina. For Free Catalog send Postcard to Tractor Supply, 2692 North Halsted, Chicago 14, Ill.

Post Hole Digger—Rapiddigger for Ford or Ferguson tractors, 100% belt drive, safe, fast, economical. Many features that highest priced diggers don't have, say many who have used 5 years, and is 1/2 the price. Guaranteed performer. Write for information, Rapiddigger—4605 Lowell, Lincoln, Neb.

One-Way and Disc Grinder. Costs so little, so easy to operate that you cannot afford to use dull discs. No dismantling. Write for circular. Tri-State Automotive Co., Kimball, Nebr.

New and Used Tractor Parts. Write for big, free 1952 catalog; tremendous savings. Satisfaction guaranteed. Central Tractor Parts Co., Des Moines 3, Ia.

1947 1-9 Tractor; 1948 Self-propelled Combine; 1948 truck, all International. Excellent condition. Mrs. Helen Heinem, Cawker City, Kan.

HOBBIES—HOMECRAFT

Leathercraft. Everything needed by beginners, advanced hobbyists and professional leatherworkers. Largest stock of supplies in U. S. Moderate-priced tooling leathers, tool quality calfskins, tools, supplies, kits. Send 10c for big catalog. J. C. Larson Co., 820 S. Tripp, Dept. 1591, Chicago 24.

REMEDIES—TREATMENTS

Free Book—Fistula, Colon-Stomach, associated conditions. Latest methods. Thorntown & Minor Hospital, Suite C106, Kansas City 3, Mo.

FILMS AND PRINTS

3c Deckledge Reprints 3c

Reprints size as negative 3c and oversize prints 4c. 6- or 8-exposure roll developed and printed one each 25¢ or two each for 35¢. Three 5x7 enlargements for 50¢. Four 8x10 for \$1.00. Your favorite photo copied and 10 billfold pictures 65¢. Summers Studio, Unionville, Mo.

20 DECKLEDGE REPRINTS 50c

6-8 Exposure roll developed and printed 25¢; 12-exposure, 30¢; Jumbo prints 4c each. Request complete prices.

TINY'S PHOTO SERVICE

Box 1068-KF Topeka, Kan.

Two Sets of "Deckledge" Prints with every 8-exposure roll finished 40c. Very finest quality. "Deckledge" reprints 3c each. Jumbo reprints 4c each. Brown Photo Company, 1910-32 Emerson, Minneapolis, Minn.

Jumbo Prints—8-exposure, 35c. 12-exposure, 50c. 16-exposure, 65c. Reprints 5c each. The Foto Farm, Dept. KF, Box 228, Norfolk, Nebr.

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

12 Jumbos From Roll 35c, 8 Jumbos 25c, with this ad. Skrudland Photo, Lake Geneva, Wisc.

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Be An Auctioneer. Term soon. Write for information. Missouri Auction School, 3241 Paseo, Kansas City, Mo.

SAVINGS AND LOANS

Let the Mailman help you save. Our advertisement in this issue tells how you can save by mail and earn 3% at the current rate. We'll be glad to send you full particulars. Max Noble, president, United Building & Loan Association, 217 East Williams, Wichita, Kan.

AGENTS AND SALESMEN

Make Money Showing Neighbors how to beautify yards with glorious flowering shrubs and trees. Quick-bearing Dwarf fruit trees; World Famous. Star patented varieties produce abundant harvests champion-quality apples, pears, peaches, other fruits. Even small plots produce fruit for family use and to sell. Beautiful Sales Kit free. Stark Bros., Dept. 30312, Louisiana, Mo.

Man to Earn \$90 week up. Long needed invention. Advertised Saturday Evening Post, Colliers. Prospects everywhere. Full or part time. Exclusive. No investment. Free samples. Write Red Comet, Inc., Dept. 88-A, Littleton, Colo.

OF INTEREST TO WOMEN

Stamped Linens for Resale. Buy from manufacturer at low cost, embroider and resell at a profit. Free 28-page catalog featuring Seamless Tubing Pillow Cases, Scarfs, Banquet Cloths, Luncheon Sets, Show Towels, Baby Articles, etc. Merrilled Art Embroidery Co., Dept. 743, 22 West 21st St., New York 10, N. Y.

Read Capper's Weekly and receive a gift. It's the most interesting and informative weekly newspaper you have ever seen. Write Capper's Weekly for details. Circulation Department K. Topeka, Kansas.

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

Ladies Full Fashioned Nylons, 3 pairs mill rejects and 1 pair select grade for \$1.00. Satisfaction guaranteed. Midsouth Hosiery Co., Box 391, Rossville, Ga.

FEATHERS WANTED

West Chicago Pays More: Get highest cash prices for your goose and duck feathers. Send sample for prices of used feathers. Free shipping tags. Prompt payment. Company highly rated. West Chicago Feather Company, Dept. G. G., 172 N. Aberdeen St., Chicago 7, Ill.

WANTED TO BUY

Wanted: Horse Hair, Tail and Mane. Rabbit skins, wool, pelts, beeswax, raw furs. Write for prices, shipping tags. Sturges Co., 2630 "N" St., Omaha, Nebr.

Wanted Electric Lighting Plants, alternating current, any make, size. Mr. Conklin, 105 East Bethune, Detroit, Mich.

F FARMS—KANSAS

Brown County Farm for Sale. 145 A. 6-room house, new barn, granary, implement shed, hog house, poultry house. Two good wells, 103 A. farm land, 38 A. excellent pasture. Good gravel road. Good outlet for dairy products. Call or write A. C. Hansen, Phone 343, Hiawatha, Kan.

F FARMS—MISCELLANEOUS

United Farm Agency's big Free Winter catalog of farm and country real estate bargains can help you plan soundly for your future security in the country. Good pictures, many states, easy terms, many equipped, feed and hay included. For special service, state requirements, desired location, Write for your catalog today. It's free! United Farm Agency, 2825-KF Main St., Kansas City 8, Mo.

Interested in Dairying, livestock, poultry, berries, grapes, vegetables, you must investigate unusual opportunities in the Ozarks. Write immediately for free new 20-page illustrated booklet. C. B. Michelson, General Agricultural Agent, Frisco Railway, 241 Frisco Building, St. Louis, Mo.

Strout Catalogs: East and Mid-West Red cover; West Coast edition Blue. Farms, Homes, Businesses, bargains galore. Either mailed free. Strout Realty, 20 West 9th St., Kansas City 6, 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.

Dependable Watch Repairing done very reasonably. Send watch for free estimate. All work guaranteed one year. Park Watch Repair Service, 132 Wexford SE, Grand Rapids 8, Mich.

Western Hand Made Purses, belts, etc. Also wallets, lamps and other accessories. Free Circular, No. 21. Leather Products, Box 596, Sioux Falls, S. D.

Fish Bait—Over 20 recipes and suggestions only 10c and stamp. Many favorable reports received. K. F. Fisherman, 1715 Lane, Topeka, Kan.

For Sale—Hedge posts, all kinds. Ralph Murray, Pomona, Kan.

BABY CHICKS

BREEDING FARM QUALITY CHICKS PRICED LOW 1/3 LESS

You start with breeding from one of America's finest pedigree breeding farms with these AAAA chicks in your laying house. Product of over 25 years' trapnesting & a million dollars investment.

260-340 EGG BREEDING

New purebred SNOW-WHITE-EGG strain contest-proven Leghorn, Rock, Hampshire and crossbreds. Also Chicken-of-Tomorrow, Cornish, broiler strains. DISCOUNTS FOR EARLY ORDERS. Write



GREAT PLAINS HATCHERIES WICHITA, KANSAS

I'LL SEND YOU 25 BERIGOLD CHICKS



To prove to yourself that Berry's New Cross-breed Creation:

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- Grow faster and make more profit than any broiler.
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FREE GIFT CERTIFICATE AND CATALOG

ERNEST BERRY, Box 622, Newton, Kansas

Wonderful POULTRY BOOK

FREE Tells all about our FINEST BABY CHICKS and started chicks, sexed or non-sexed, blood-tested, healthy and vigorous. 30 varieties and crossbreds, also Turkeys, mature fowls and hatching eggs. Rush postpaid for FREE BOOK AND PRICE LIST. GREAT WESTERN HATCHERY, Box 24, Selma, Kans.

Raise Coombs Chicks. Get high egg production breeding. Real ROP trapnest-pedigree farm. Top quality in White Leghorns, Austra-Whites, White Rocks. Coombs Leghorn chicks, 250-322 eggs sired for 30 years back. First generation, strain-crossed vigor gives wonderful boost to viability. Production Coombs Austra-Whites High-speed layers. High egg production ROP breeding. Real crossbred vs. Kansas State College strain White Rocks. 100% fast feathering. Excellent layers. Wonderful meat birds, all ages. Ideal dual-purpose strain. All chicks U. S. Pullorum Passed. Hatching now. Early order discount. Free circular. Write today

Beef CATTLE**REG. HEREFORDS**

20 Head Choice Domino Bred Bulls and Heifers, 8 to 12 months old; also 5 Yearling Heifers, well grown and in good condition.

CARL O. HUG, Carbondale, Kan.

REG. HEREFORD BULLS

For Sale—Young bulls 8 to 14 months old; grandsons of W. H. R. Royal Tredway 9th; also grandsons of W. H. R. Carlos Domino 3rd, also some big rugged 2-year-old bulls ready for heavy service.

LOCKHART HEREFORD FARMS
Osborne, Kansas

WANTED

About 14 Reg. Polled Hereford Heifers, age 12 to 18 months. Modern type with size and weight for age. No expensive pampered show stock.

L. C. BAMBERGER, Silverhill, Alabama

FOR SALE 20 CHOICE REGISTERED**Angus Bulls**

Coming 2 years old. Rugged, thick and plenty of scale. Raised together. Inspection invited.

L. E. LAFLIN, Crab Orchard, Nebr.

REG. ABERDEEN-ANGUS BULLS

For Sale. Sunbeam Breeding.

CHESTNUT & RAILSBACK, Quinter, Kan.

ABERDEEN-ANGUS BULLS

For sale—Several good young bulls. Popular bloodlines. Priced reasonable.

UNRUH ANGUS FARM, Moundridge, Kan.

SHORTHORN BULLS

For Sale, from 6 to 14 months old. Red and roan. Well marked, well bred, good individuals ready to go out and go to work.

W. A. YOUNG, Clearwater, Kan.

PUREBRED SHORTHORN BULL

Best of bloodlines.

HOWARD ROWE, Scranton, Kan.

**MOST EFFECTIVE RAT and MOUSE KILLER Known**

Results almost unbelievable. No bait-shyness—keep eating until they all die. Choice of 2 forms:

BANARAT BITS — ready-to-use pellets. New bait formula: 1-lb. self-service bag \$1; 5-lb., \$3.95; 4-oz. Mouse Bits, 50 cents.

BANARAT PREMIX — mix with any acceptable bait. $\frac{1}{4}$ -lb. makes 5 lbs. bait, \$1.75; Big $\frac{1}{2}$ -lb. makes 10 lbs., \$3.00. Ask for genuine BANARAT by name, at your dealer's or write American Scientific Laboratories, Madison 1, Wis.

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ARE ACCEPTED
IN KANSAS FARMER**



Yes, sir, your cows will really love you when you feed them on rich, vitalizing silage from a Dodson "Red and White Top" Silo. By using your own row crops and grasses as silage, you'll get more beef and milk per acre than ever before. \$38 will bring you yours...WRITE US TODAY.

DODSON MFG. CO., INC.
WICHITA and CONCORDIA
KANSAS

Coming Events

MANHATTAN
KANSAS
JANUARY 1952

January 7—Graham county, district sheep and wool school, Hill City.

January 7—Johnson county, dairy banquet, DHIA annual meeting, Olathe.

January 7—Shawnee county beef and crop school, Topeka.

January 8—Wilson county, annual meeting of Wilson County Artificial Breeding Association (evening).

January 9—Pottawatomie county, crops and livestock winter school, Wamego.

January 9—Cheyenne county artificial breeders association annual meeting, courthouse, St. Francis.

January 9—Thomas county district sheep school, Colby.

January 10—Mitchell county livestock meeting with M. B. Powell, KSC Extension livestock specialist (day meeting), Beloit.

January 14—Mitchell county, day meeting with KSC Extension engineer, Beloit.

January 14—Kiowa county-wide meeting on entomology with Dell Gates, KSC entomologist, Greensburg Community Building.

January 14-15—Kingman county, 2-day farm institute, Kingman.

January 15—Mitchell county, day meeting with W. G. Amstein and Marion Jackson, KSC specialists, Beloit.

January 15-16—Riley county, Kansas formula feed conference, Manhattan.

January 16—Dickinson county, annual meeting, artificial breeding association, Abilene, Steel Hall.

January 16-17—Riley county, Town and Country church conference, Manhattan.

January 17—Kingman county 4-H leader training school, Kingman.

January 17—Leavenworth county, 4-H Club work with Roger Regnier, Leavenworth.

January 21—Leavenworth county, dairy school with KSC specialist, Leavenworth.

January 22—Wilson county, winter school with E. A. Cleavinger and Ray Hoss.

January 22—Pottawatomie county, poultry school, Onaga.

January 22—Chautauqua county, winter farm machinery school, with Walter Selby, KSC specialist, Sedan.

January 23—Leavenworth county, marketing meeting, with KSC specialists, Tonganoxie.

January 23—Shawnee county poultry school, with M. A. Seaton, KSC specialist.

January 23—Miami county horticulture meeting, Ossawatomie.

January 23-25—Riley county, kernel analysis conference, Manhattan.

January 24—Cheyenne county, windbreak and landscaping school, with KSC farm forestry and landscape architecture Extension specialists assisting, St. Francis courthouse.

January 25—Wilson county, 4-H leader training school with Roger Regnier and Mary Elsie Border.

January 25-26—Miami county Home Demonstration unit meeting, lesson on home management, Paola.

January 25—Shawnee county, dairy school, with KSC dairy Extension specialist.

January 26—Thomas county, landscape school, with KSC specialists, Charles Parks and Paul Collins, Colby.

Stock-Share Lease

A new printing by Kansas State College of the circular, "The Stock Share Lease," No. 252, is ready for distribution. The information is reliable and will answer accurately many questions on the subject. Write to Farm Service Editor, Kansas Farmer, Topeka, and ask for bulletin No. C252. There is no charge.

Coming Events

January 27-29—Johnson county, home management leader training meetings, with Gladys Myers, KSC specialist, Olathe.

January 28—Kingman county, third year garden and poultry school.

January 28—Miami county dairy meeting, Paola.

January 28-30—Riley county, conference for co-operative directors and managers, Manhattan.

January 29—Mitchell county, meeting with L. E. Willoughby, Bass Powell and Ray Hoss, Day meeting.

January 30—Cherokee county, junior leadership meeting, 4-H building, Columbus.

January 30—Cherokee county, beef school with Wendell Moyer, KSC Extension beef specialist, 4-H Building, Columbus.

Kansas 4-H'ers Set New Records

Value of Kansas 4-H Club members' projects in 1951 was \$6,324,000, according to the State 4-H Office, Manhattan. Despite floods and other abnormal weather conditions, 86 per cent of the 30,149 members completed their projects.

Beef animals brought members most profit—\$806,000; wheat, \$419,000, and dairy cattle, \$337,000. Value of 1951 projects was \$276,000 greater than those in 1950.

Membership in clubs in Kansas exceeded 30,000 for the first time. Each of the 105 counties had 4-H youths in beef, swine, garden, poultry, baking and clothing projects. Assisting in 4-H work during the year were 2,563 men and 4,247 adult leaders, and 1,716 boys and 2,245 girls serving as junior leaders.

New 4-H Stamp

On January 15, a 4-H postage stamp goes on sale. It will be a commemorative, 3-cent stamp, and the 1st one will be sold at Springfield, O., birthplace of the 4-H movement.

Any 4-H member can obtain first day cancellations of the stamp by sending a self-addressed envelope to the Springfield postmaster. The envelopes should not have postage on them, but placed in a larger envelope, addressed to the Springfield postmaster. Ten envelopes is the limit, and a postal money order should be sent to cover cost of stamps to be placed on the letters.

Public Sales of Livestock**Aberdeen-Angus Cattle**

January 24—Chisholm Trail Aberdeen-Angus Breeders' Association, Caldwell, Kan. Donald Morton, Secretary, Argonia, Kan.

February 25—C. E. Reed, Wichita, Kan.

March 3—Penney & James, Hamilton, Mo. J. B. McCorkle, Sale Manager, AIU Building, Columbia, Ia.

March 28—U. S. Center Angus Association, Smith Center, Leonard Patman, Secretary.

April 2—South East Kansas Breeders' Association, Iola, Kan. Clarence C. Ericson, Sale Manager, Savonburg, Kan.

April 3—Oscar Latzke, Junction City, Kan.

April 21—Ericson, Thalman and Davis Production Sale, Hutchinson, Kan.

April 22—Northeast Kansas, Hiawatha, Kan. Harry Dandikler, Secretary, Hiawatha.

April 29—G. W. & Ada C. Caldwell, Harlan, Kan.

Herd Cattle

February 2—North East Kansas Hereford Breeders' Association, Topeka, Kan. Elmer Becker, Sale Manager, Meriden, Kan.

February 4—1952 Kansas Range Bull Sale, Dodge City, Kan.

February 6—1952 HG Hereford Farms, Colby, Kan.

February 7—1952 Olivier Bros. Harper, Kan.

February 8, 1952—Kaw Valley Hereford Association, Manhattan, Kan. Bass Powell, Sale Manager, Manhattan, Kan.

February 9—Dickinson County Hereford Breeders' Association, Abilene, Kan.

February 22—Sam Gibbs, Clay Center, Kan.

March 3—Marshall County Hereford Breeders' Association, Marysville, Kan. Elmer E. Peterson, Secretary, Waterville.

March 5—3-Way Sale, Hutchinson, Kan.

March 18—North Central Kansas, Belleville, Kan. Geo. C. Wreath, Sale Manager.

April 12—Kansas Hereford Association, Horton, Kan.

April 16—Sutor Hereford Farms, Zurich, Kan.

October 6—Beeks-Cleland, Baldwin, Kan.

October 9—Jim Riffel, Junction City, Kan.

October 11—CK Ranch, Brookville, Kan.

October 20—John W. Spencer, Whiting, Kan.

October 30—Flint Hills Association, Cottonwood Falls, Kan.

November 6—Lincoln County, Sylvan Grove, Kan.

November 11—Tomm & Fishburn, Haven, Kan.

Shorthorn Cattle

February 13—Alvin T. Warrington and Richard B. Karst, Rich Hill, Mo. Mervin F. Aegeirter, Sale Manager, Seward, Nebr.

Milking Shorthorn Cattle

April 25-26—National Milking Shorthorn Show and Sale, Springfield, Mo. American Milking Shorthorn Society, Managers, 313 So. Glenstone, Springfield, Mo.

Duroc Hogs

January 24—Jayhawk Farm, Little River, Kan.

January 29—Jayhawk Farm and Leonard Schneider, Sale at Albert, Kan.

February 5—Kansas Duroc Breeders, Garden City, Kan. Herman Popp, Secretary, Haven, Kan.

February 6—Weldon Miller & Son, Norcatur, Kan.

February 9—Bred Sow Sale, Vern V. Albrecht, Smith Center, Kan.

February 11—Harry Duvall, Belleville, Kan.

February 20—U. S. Center Duroc Association, Phillipsburg, Kan. Vern V. Albrecht, Sale Manager, Smith Center.

April 19—Kansas Duroc Fall Pig Sale, sale at Moundridge, Kan. Herman Popp, Secretary, Haven, Kan.

Hampshire Hogs

February 28—R. E. Bergsten & Sons, Randolph, Kan.

Suffolk Sheep

April 26—Registered Suffolk Ram Sale, Herman Popp, Haven Sale Manager, sale at Kansas State Fair Grounds, Hutchinson, Kan.

HOGS**ANNUAL DUROC BRED SOW SALE**

January 24, 1952, at Moundridge, Kan.

**IN THE NEW 4-H BARN
SALE AT 1:00 P. M.**

We will hold a big 4-H and FFA judging contest in the morning preceding the sale.

For Catalog and Particulars Write
JAYHAWK FARM
RALPH SCHULTE, Owner, Little River, Kan.

**52ND DUROC BRED GILT SALE
February 9
Smith Center, Kan.**

Will sell 60 Choice Bred Gilts and 20 Fall Boars and Gilts

Individuals plus the best in breeding. Judging school and contest for 4-H and FFA, also class for G. I. students.

Write for information and catalog.
VERN V. ALBRECHT
Smith Center, Kansas

OIC
Reg. OIC Hog
Chester Petersen
Osage City, Kan.

REG. SPOTTED POLAND CHIN

Choice Fall Boars and Gilts with plenty of length, deep sides and deep full hams sired by Kans Model and Majestic Duke. New bloodlines. Related pairs. J. V. Cundiff, Talmage, Kan. (4½ miles north.)

YORKSHIRE GILTS

Registered and Vaccinated. Open or bred. February to April farrow. Farm located on west side of Cawker City, Kan.

CHARLES H. BECKER</



IN THE FIELD MIKE WILSON

Topeka, Kansas
Livestock Editor

E. D. HERSHBERGER & GLEN HERSHBERGER, Hershberger's Guernsey Dairy, Newton, are the owners of 5 registered Guernseys that have recently completed Herd Improvement Registry production records, according to the American Guernsey Cattle Club. The records were made on twice daily milking for 365 days.

THOMPSON RANCH of Milan, Mo., held a Suffolk Sheep sale December 7th; 132 ewes were sold for an average of \$100 per head. Top of the sale was \$250 paid by Jesse Dowdy, Sedalia, Mo. Around 200 ranchers and farmers attended this sale. The day was excellent and the condition of the sheep was good. Local demand for this offering was fair. Colonel H. Earl Wright of Mt. Head, O., conducted the sale.

The Superior Sire Award has recently been awarded on "Model Lad," the Duroc herd sire owned by **JAYHAWK FARM**, Little River. This year was purchased at the 1949 National sale from Virgil Wittler, of Quincy, Ill. Model Lad not only won the top award in Kansas but had the highest score of any state winner in the nation. The Superior Sire Award is based on the winnings of the get of sires in the various state fairs. Ralph Schuite, owner of Jayhawk Farms, reports he is very happy to have received this great honor.

Sixty lots in the **CHARLES & RUSSELL STEWART** Hereford Sale at Quinter on December 12 brought \$26,718, averaging \$445. These cattle were presented in ordinary working condition and many of the individual lots were young calves. The average on 36 bulls was \$454 and 24 females brought an average of \$430. Top bull in this auction was lot 10, Don Royal Duke 7th, and sold for \$900 to Roy Baker, Tribune. Top females were lots 55 and 56, Donna Aster 4th and Donna Aster 3d, both with heifer calves at foot sired by Don Royal Duke and sold for \$700 each to Leon Anderson, Harlan. Col. Freddie Chandler sold this offering.

Forty-four **SOUTH CENTRAL KANSAS ASSOCIATION HEREFORDS** brought a general average of \$422 and selling for a grand total of \$18,560 on December 7th at Newton. Thirty-one bulls sold for an average of \$428 and 13 females averaged \$406. Show champion and top-selling bull was lot 5, TOF Tredway 15th, consigned by Win Oar Farm, Aundridge, and sold to F. Rutherford, Leon, for \$900. Show champion and top female was lot 38, Donna Regulator A, consigned by Felix J. Krehbiel, Elyria, and sold to Willow Creek Hereford Farm, Gypsum, for \$620. Gene Watson sold the offering. This sale was ably managed by Phil Adrian, assisted by Mrs. Adrian.

On December 19th the **B-K HEREFORD RANCH SALE**, held at Minneapolis, brought 19,620 for the 43 lots of B-K Hereford Ranch. Larry Domino bred calves. Twenty-five bulls sold for an average of \$504; 18 females averaged \$89 making the entire 43 lots average \$456. Top calf was lot 2, B-K Dandy Larry D. 24th, a February '50 calf, which brought \$1,400; buyer was Hill Hereford Farm, Alexandria, S. D. Top steer calf, lot 26, B-B Larry Emma 31st, a March, 1951, calf, brought \$670, sold to Jesse Engle & Sons, Enterprise. Gene Watson sold the offering of Herefords. B-K Ranch is owned and operated by Clarence Bergmeier and Clarence E. Koerner, Longford.

Forty-two Angus in the **SECOND ANNUAL ROUND-UP** sale at St. Joseph, Mo., brought \$4,895, averaging \$355 December 21. The day was extremely cold with slick, icy conditions underfoot. The sale included several young calves and little in thin flesh. Twenty-two bulls sold for an average of \$325. Twenty females averaged \$386. Bill Cole, Bethany, Mo., sold the top-selling bull at \$545, going to Shiedel & Knop, Falls City, Mo. Female top was reached on 3 lots—23, 26 and 32—all cows with calves at foot, consigned by H. A. Smith, Creve Coeur, Mo., and R. E. Bell, Orrison, Mo. All 3 of these combinations sold. D. R. Heath, Helena, Mo., for \$520 each. This sale was managed by Donald Bowman, Hamilton, Mo., and was sold by Colonel Roy Johnson.

HERMAN POPP'S SUFFOLK EWE SALE, Dec. 1, was very successful despite the fact no extreme high prices were made. Average on 59 ewes and ewe lambs was \$81.25 per head, with a top of \$105. Ten head reached the \$100 figure or above. Top of the sale was a yearling carrying the service of the popular ram HP M: she sold to L. Dean Fox, of Laredo, for \$105. Mr. Fox bought 10 head in the sale that averaged \$100 per head. K. C. Tyler, Nevada, Mo., topped the aged ewe section of the sale at \$75. Top ewe lamb was bought by Smithcraft Farms, Cedarvale, for \$70. Six head went to Missouri, 2 to Oklahoma and 2 to Texas. The remainder of the offering was bought by Kansas buyers. Col. Harold Tonn sold the sale.

A consignment of **POLLED HEREFORDS** were sold December 13 at the Atwood sale pattern. Thirty-four head were sold for a general average of \$509. The bulls averaged \$704. Fourteen females in this sale averaged \$413. H. F. Hussman, Atwood, consigned the top-selling bull at \$1,250, going to Orville Skiles, Wilsonsburg, Neb. A top-selling female in the sale came from the herd of George N. Hawkins & Son, McDonald, and sold for \$430 to Roy & Al Bader, Burlington, Colo. The cattle were in every day working condition. The offering was consigned from the herds of Geo. N. Hawkins & Son, McDonald; Francis S. Miller, McDonald; H. F. Hussman, Atwood; Eugene Olmstead, Herndon, and Olson Bros., Herndon. T. Sherlock & Sons sold the offering.

Despite a 5- to 6-inch snowfall that fell the morning of December 8, the **A. R. SCHLICHAU** Sons sale at Haven drew a good crowd and enthusiastic buyers from North Dakota, Wyoming, Nebraska, Minnesota and Kansas. The sale included 17 bulls and 3 females that brought \$1,000 or more. Top-selling bull was lot 6, SH Larry Domino 69th. He was purchased by Merle Henry, Talmadge, Nebr., and Merle Heiser, Dunbar, Nebr., for \$3,250. Lot 3,

SH Larry Domino 23rd, sold for \$3,000 to Reynolds & DeCoursey, Sussex, Wyo. Another top seller was lot 9, SH Larry Domino 28th, going to Olivier Bros., Danville, for \$2,900. Top lot in the female division was SH Larry Domino 50th, and sold to Frank Burrow, Topeka, for \$1,375. A top cow and calf combination was lot 55, Double B. Princess 21st, and sold to W. S. Satterfield, Tulsa, Okla., for \$1,150. Cols. Freddie Chandler and Gene Watson were auctioneers.

December 14 the day of **VALLEY VIEW RANCH SHEEP SALE** was the worst day in the 1951 sale season. Roads everywhere were covered with ice and driving was very hazardous. However, 83 head of Southdown and Shropshire sheep were sold. Top of the sale was a Shrop ewe selling at \$75 to Lawrence Cooley, Haven. Top Southdown ewe was purchased by Irvin Cooper & Sons, Haven, at \$72.50. Average price of the ewes was \$56.50. It was considered a very good sale due to the fact that roads were almost impassable and the sale was held during a blizzard. Ewes sold in ordinary condition, just off wheat pasture. It was felt general conditions prevented out-of-state buyers from attending sale. Consignments in this sale came from the flock of O. W. Fishburn & Son and Wayne Worthington. Col. Harold Tonn was auctioneer.

A cold day reduced attendance at the **NORTHWEST MISSOURI HAMPSHIRE BREEDERS** bred ewe sale, St. Joseph, Mo., December 15. Fifty-five head were sold for an average of \$71; 7 head sold from \$100 to \$150; 42 head went to Missouri buyers, and 12 head to Kansas and 1 head to Texas. Mrs. Ammie Wilson, Pano, Tex., bought the high-selling ewe at \$150. This ewe was the champion of the show and was consigned by Glenn Armentrout & Son, Norborne, Mo. This breeder sold another ewe at \$125. Reserve champion ewe at \$125 was consigned by F. B. Houghton, Maryville, Mo. Buyer was M. E. Poe, Jamesport, Mo. M. L. McGettigan, of Maryville, Mo., paid \$142.50 for a ewe from the flock of Eugene Busby, Maryville, Mo. Kansas buyers were Wayne E. Neel, Jamestown; Henry Bock, Wichita; Frank Syms, Whiting; Clayton Strahm, Sabetha, and Ralph W. Arnold, Hiawatha. Bert Powell was auctioneer.

The **MISSOURI CORRIE DALE BREEDERS BRED EWE SALE** was held at the Campbell sales pavilion, Chillicothe, Mo., December 3. A show preceded the sale with the consignors acting as judges. The champion was lot 6, consigned by the veteran breeder Charles Brown, Osborn, Mo. She sold at \$150 to Clinton Cole, Bethany, Mo. Reserve champion ewe was consigned by Thomas O. Pemberton, Centralia, Mo., and sold for \$185 to Lloyd F. Sackman, Nettleton, Mo. Elmer Sallee, Meadville, Mo., had 3rd high-selling ewe, at \$135. Buyer of this ewe was John F. Williams, Elmer, Mo.

Fifteen ewes sold for \$100 or more; 3 head went to Louisiana, 1 head to Illinois and a Maryland buyer bought several head. Missouri buyers purchased about 90 per cent of the sales offering. While the top individuals sold well, there were many head that sold at prices that anyone wanting to invest in registered Corriedales could have made purchases worth the money. Hugh Campbell, Chillicothe, Mo., was auctioneer.

Three new records were made in the **KANSAS POLLED HEREFORD SALE**, held at Hutchinson, December 11, when 47 lots averaged \$1,415 for a new high for this sale. New record price for a bull in this sale was made on lot 20, the champion, Colonel RPD, an October, 1950, son of Real Plato Domino Jr. He was consigned by Fritz Kerbs & Sons, Otis, and sold to Joe Maes, Bushton; John and Richard Luft, Bison, and Vic Roth, Hays, for \$12,500. Reserve champion was lot 15, ALF Beau Mixer, 3d, consigned by John M. Lewis & Sons, Larned, and sold for \$3,050 to Howard Soorholtz, Melbourne, In. Second top bull selling was lot 1, Beau Real 1st, consigned by Verne Gleason, Seward, and went to M. T. Weisch, Hanston, for \$3,200. The new female record was made on lot 47, ALF Lady Return, champion female, consigned by John M. Lewis & Sons, and sold to Master Key Place, Fulton, Mo., for \$2,275. Second top female was consigned by Joe Maes, Bushton, and was purchased by Bob Engler, Topeka, for \$2,100. Col. Freddie Chandler sold the sale. Vic Roth capably managed this good sale.

The largest offering of Polled Herefords in the Middle West in the year of 1951 was held at Topeka, on December 3 and 4 when the **MULVANE RANCH** dispersed their herd of 414 lots of cattle. All the animals sold individually one at a time and several calves were sold as individual lots off the cows. No grouping was done in this sale. The sale offering was distributed into Kansas, Nebraska, Illinois, Indiana, Missouri, Maryland, Oklahoma, Ohio, Alabama, Wisconsin, Colorado, Idaho, Arkansas, South Dakota, Tennessee and Montana. Top bull in the sale was Beau Perfect 246th, a 10-year-old herd sire. He sold at \$4,100 to J. C. Lewis, Ellicott City, Md. This great bull had been in service at Mulvane Ranch for 3 seasons and has sired a number of record price and champion animals. Second top bull was a son of Beau Perfect 246th, selling at \$3,500 to Frank Crosslin, of Eagleville, Tenn. Another son of 246th brought \$2,200 to Shorty's Ranch at Dixon, Mo. Top female in the sale was a daughter of Beau Perfect 246th and selling for \$3,700 to Harry Watson, Seneca, O. Mr. Watson was also purchaser of the second top-selling female with a bull calf at side by the 246th. He paid \$2,650 for this lot. Seventy-one bulls brought \$54,225 to average \$763 per head. A total of \$207,965 was paid for 343 females to average \$606; 414 lots of cattle chalked up a grand total of \$262,190, making a general average of \$633 per head. Gene Watson and Charles Corkle, assisted by representatives of the livestock press, conducted this 2-day dispersion.

Trend of the Markets

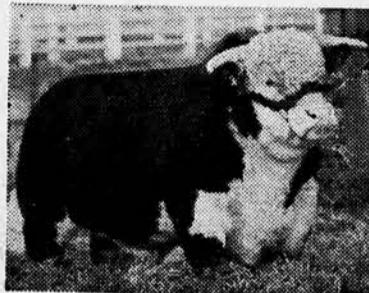
Please remember that prices given here are Kansas City tops for best quality offered:

	Week Ago	Month Ago	Year Ago
Steers, Fed	\$36.50	\$34.50	\$35.50
Hogs	18.75	18.40	21.00
Lambs	28.50	30.25	33.50
Hens, 4 to 5 lbs.	.26	.23	.26
Eggs, Standards	.39	.48	.43
Butterfat, No. 1	.75	.72	.68
Wheat, No. 2 Hard	2.54	2.58%	2.42
Corn, No. 2, Yellow	2.00	2.00%	1.70%
Oats, No. 2, White	1.07%	1.15%	1.03
Barley, No. 2	1.52	1.52	1.50
Alfalfa, No. 1	44.00	44.00	36.00
Prairie, No. 1	27.00	26.00	17.50

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The BUY Opportunity of the Year See CK at Denver, Jan. 12-15

Where CK Crusty 46th and eight other members of our show herd sell: CK Crusty 67th, CK Crusty 107th, CK Crustynineteen 7th, CK Publican 46th, CK Princeton 2d, WR Royal Princeps 3d, CK Kristine 84th, CK Patsy 2d.



CK CRUSTY 46th

Champion Bull at the
American Royal—Kansas City, Mo.
Pan-American Show—Dallas, Tex.
Tri-State Fair—Iowa Park, Tex.
Kansas State Fair—Hutchinson, Kan.

HE SELLS

Never in recent years has a bull with his show record been offered at auction! His full brother, CK Crusty 11th, was Champion Bull at the 1950 Denver show and is now one of our herd sires. CK Crusty 46th is a proven breeder. He already has some calves on the ground and they are top calves. The 46th is by Register-of-Merit CK Cruiser D, 34th and out of an Advance A, Jr. Dom cow. If you are looking for the herd bull buy of the year, look at CK Crusty 46th.



IN THE DENVER YARDS

CK will show and Sell two carloads of yearling bulls (one load is pictured).
CK'S RECORD:

1951 GRAND CHAMPION LOAD
1950 RESERVE CHAMPION LOAD
1949 RESERVE CHAMPION LOAD
THIS YEAR'S LOAD IS ANOTHER TOP ONE.

VISIT THE RANCH

We have a large selection of range bulls, a few outstanding herd bulls, and a top group of bull calves for sale.

CK RANCH

NOTICE:
Our February sale has been cancelled.

BROOKVILLE,
KANSAS

Chisholm Trail Aberdeen-Angus Breeders' Assn. Sale

January 24, 1952
Caldwell, Kansas



55 HEAD OF REGISTERED CATTLE
40 Cows and 15 Bulls

Well bred, good individuals and carefully selected. 75 head of commercial females. All are of top quality but not overly fitted, just right to do some one a lot of good.

For catalog and further particulars write
DONALD MORTON, Secretary, Argonia, Kansas
Chisholm Trail Aberdeen-Angus Breeders' Assn.

Dairy CATTLE

For Sale

REG. GUERNSEY BULL

SHAMROCK FARMS
A. Arab calved Feb. 26, '49. Sire: Colorado Acme, (Foremost Acme, Foremost Eminent's Hope), in service K.A.B.S.U. Dam: Lynn Lee's Ruth Z D, (Gaylord's Husky Sultan, Lynn Lee Ruth), dam made 9936 m., 561 f., Srs. 2, H.I.R. 2x; 12344 m., 654 f., Jr. 4, H.I.R. 2x, both State records when made. Contact ALAN BERNDT, Simpson, Kansas

FOR SALE

REG. HOLSTEIN BULLS

Serviceable age, with very good type, from dams that pay at the pail. Herd average on 60 cows 454 lbs. butterfat, 1950 D.H.I.A. Record. Carnation and Truine bloodline. Come to the farm and take your pick while they last. 1 1/2 miles northwest of Olathe, Kan.

ARTHUR JENSEN, Olathe, Kan.

PRAIRIE BLUE FARM AYRSHIRES
Production records, type classification. Herd sire approved. Winner constructive breeders award. For sale—Few females, some outstanding bull calved. Dwight Hull, El Dorado, Kansas

BERT POWELL
AUCTIONEER
LIVESTOCK AND REAL ESTATE
1529 Flagg Avenue
Topeka, Kan.

SHEEP

REGISTERED HAMPSHIRE SHEEP

For Sale. Ewe Lambs and Bred Ewes. W. G. NICHOLSON, Great Bend, Kansas

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Effective February 1, 1952

1/4 Column inch (5 lines) \$3.50 per issue
1 Column inch \$9.80 per issue
The ad costing \$3.50 is the smallest accepted.

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

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



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



THE TANK TRUCK

COLLEGE OF AGRICULTURE AND APPLIED SCIENCE LIBRARY
JAN 3 1951
KANSAS STATE COLLEGE



Haying is the biggest single operation on the Hall ranch. A rider could start at one corner and ride for 25 miles without ever getting off the ranch!



When the haying crew comes in for chow, the machines are lined up and the service crew goes to work. Fuel tanks are filled, oil checked, anything else necessary is done. Conoco Super Motor Oil is always used.



Cross-Breeding for Profit!

EVERY YEAR, on July 3, a crew leaves the ranch house to cut hay on the Hall Cattle Company ranch near Alliance, Nebraska. The next time they see that ranch house, it's September 15, 74 days later! The 26-man crew has cut the grass on 10,000 acres.

But this is just part of the operations of the ranch. On the other 40,000 acres, the Halls raise cattle . . . their own cross-breed known as "Acorn."

The Hall system of cross-breeding is complicated, but runs substantially like this: beginning with a herd of Hereford cows, the Halls breed them to registered Shorthorn bulls. Each year about 250 heifers are retained, and the herd again rebred to the Shorthorns. This goes on for 5 years, by which time the cow herd is practically Shorthorn. So the cycle is reversed . . . for the next 5

years the cows and heifers are bred to Herefords. The Hall records show that this system results in increased weights for yearlings, cows with better balanced milk flow, easier feed-out, and an average of \$3 a head more than purebreds at the market.

Nothing but Conoco lubricants ever goes into the machinery on the Hall ranch. "A good many years ago," says A. B. Hall, "I found that Conoco lubricating oil gave better starts in cold weather and better protection. Out here in the range country, it gets down

as low as 35° below zero and it stays cold all winter.

"I don't know what you've got in that oil, but we get from one to two more seasons out of our equipment before we have to overhaul it, just by using Conoco lubricants. I'm sure it's that OIL-PLATING protection in cold weather that does it."

There's proof that you, too, can get one or two more seasons out of your tractors, trucks and other farm equipment. Right now, during this rugged winter weather, change to Conoco Super Motor Oil. Call your Conoco Man, today.

Baked Cabbage Rolls

... by Mrs. Jack Moore, Route 2, Mena, Arkansas

$\frac{1}{2}$ lb. American Cheese
 $\frac{1}{2}$ lb. ham
8 cabbage leaves
2 eggs



1 cup tomato sauce
1 green pepper
1 onion
salt & pepper
 $1\frac{1}{2}$ cups cooked rice

Cut cheese into cubes, grind or chop cooked ham, chop pepper and onion, and beat eggs. Mix all together with cooked rice. Season with salt and pepper. Roll up in cabbage leaves that have been boiled a few minutes. Pack into baking dish, pour tomato sauce over top. Bake in moderate oven (350 degrees) for 30 minutes. Serves 6 to 8.

Send your favorite recipes to Mrs. Annie Lee Wheeler, Dep't E, Conoco Cafeteria, Ponca City, Okla. A \$7.50 pair of Wiss Pinking Shears awarded for every recipe published with your name. All recipes become property of Continental Oil Company.

"50,000 Miles-No Wear!"

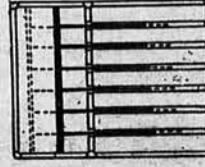
After a punishing 50,000-mile road test, with proper crankcase drains and regular care, engines lubricated with new Conoco Super Motor Oil showed no wear of any consequence . . . in fact, an average of less than one one-thousandth of an inch on cylinders and crankshafts. AND gasoline mileage for the last 5,000 miles was actually 99.77% as good as for the first 5,000! This test proved that new Conoco Super, with OIL-PLATING, can make your cars and trucks last longer, perform better, use less gasoline and oil.



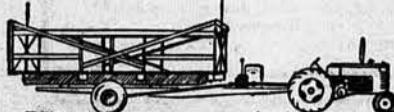
FARM KITCHEN

Sliding Truck Gate CONOCO

This easy operating gate or "door" is never in the way at livestock chute or dock, say Howard and Haynes Kueckelhan, Bonham, Tex. Use $1\frac{1}{2}$ " pipe for main frame, 1" for gate. Smaller pipe slides easily inside larger pipe.



Trailer Pushes, too



Fabricate this power take-off trailer from truck frame, pick-up differential and transmission, suggests Donald Wesche, Verdigris, Nebr. Very handy to haul feed and hay in snow or on frozen ground.

SAWS FOR IDEAS!

Send your original ideas to *The Tank Truck*, Dep't E, Continental Oil Company, Ponca City, Okla., and get a genuine \$10.25 D-15 Henry Disston Hand Saw for every idea that's printed!



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Conoco
Man

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