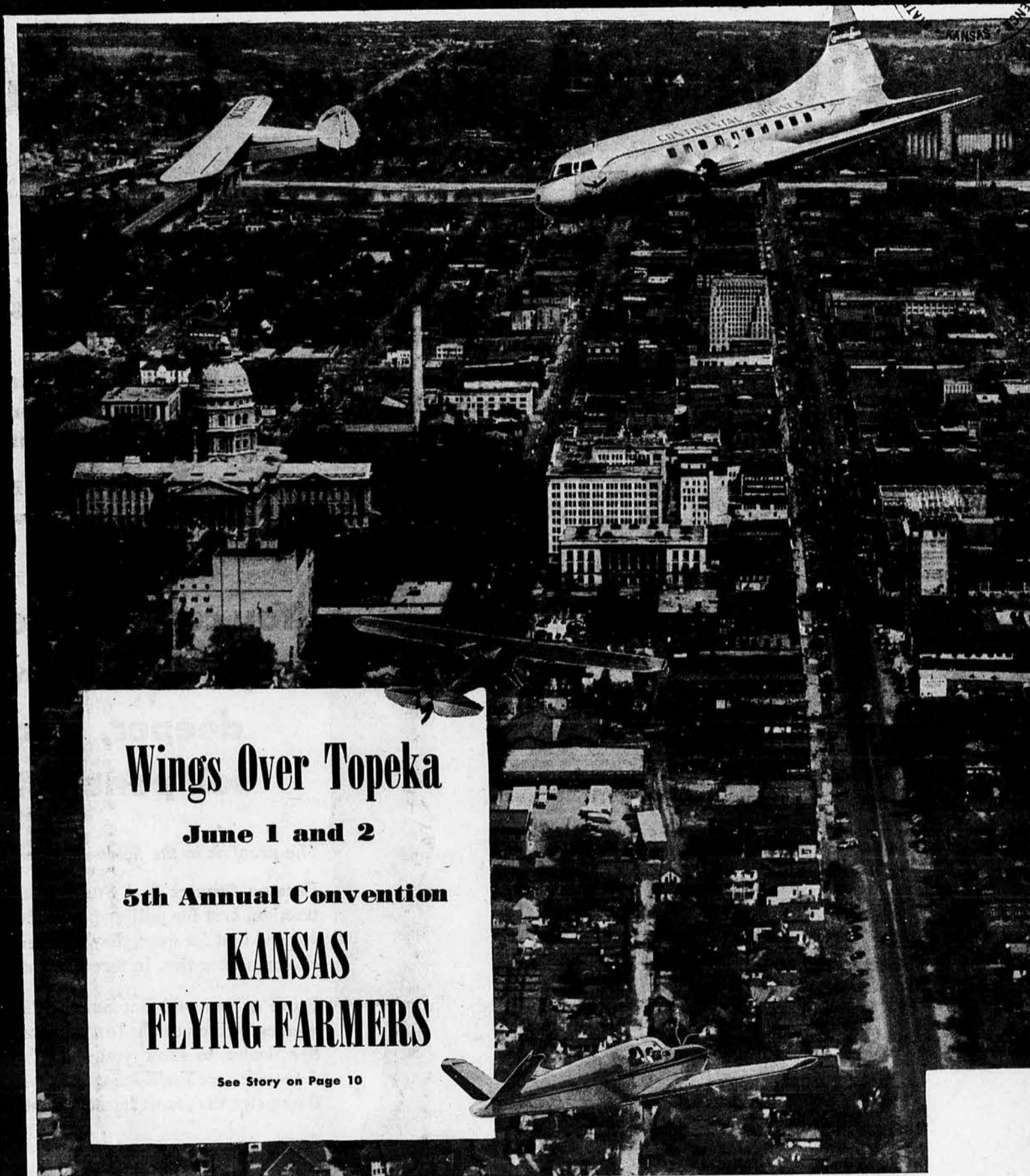


# Kansas Farmer



## Wings Over Topeka

June 1 and 2

5th Annual Convention

## KANSAS FLYING FARMERS

See Story on Page 10

- **No. 1 Villain**..... Page 4
- **4-H'ers to Europe**..... Page 7
- **Striking Pasture Changes**..... Page 8

# 3 reasons why Goodyear O-P-E-N C-E-N-T-E-R WEDGE GRIP gives you greater traction



1. Goodyear lugs are set closer together at the shoulder than at the center—don't flare out as in most tires. *Result:* soil is pinched, *wedged* between SUPER-SURE-GRIP lugs in a stronger, firmer grip.
2. Because Goodyear's husky lugs are set *straight*, they give you more gripping surface than lugs that toe in. *Result:* SUPER-SURE-GRIPS give you *full-lug* pull for their full length and depth.
3. Only Goodyear has this O-P-E-N C-E-N-T-E-R with even-balanced, equal-size, WEDGE-GRIP lugs. *Result:* more even pull, smoother ride, longer wear.

You can see the result  
right in the ground—  
deeper, cleaner  
soil penetration!

*The proof is in the fields all over the country!*

Because farmers find SUPER-SURE-GRIPS *best* for traction, *best* for pulling-power, *best* for self-cleaning and *best* for wear, they've voted them their first-choice tractor tire, in a recent nation-wide survey!

Prove to yourself that SUPER-SURE-GRIPS give the greatest pull on earth. Just ask your Goodyear farm tire dealer to show you the WEDGE-GRIP action demonstrator. You'll see why SUPER-SURE-GRIPS are the tractor tires most farmers want!

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

# GOODYEAR

Super-Sure-Grip Tractor Tires

## Top Judges At Dairy Shows

**R**ESULTS of district dairy shows are now coming in to KANSAS FARMER. Here are results in order of winning in the KANSAS FARMER judging contest for the shows reporting to date:

### Ayrshire

**NORTHEAST KANSAS DISTRICT:** Karl Scholz, Huron; Esther Alford, Lawrence; John C. Keas, Effingham; Gilbert Scholz, Lancaster; Raymond Landes, Hamlin.

**NORTH CENTRAL KANSAS:** Clarence Ainsworth, Elma; Verland Hoffman, Abilene; Orville Hughes, Broughton; Wade Bauer, Broughton; Mrs. Ray Martin, Broughton.

**CENTRAL KANSAS:** W. S. Watson, Hutchinson; Frank Schrock, Sterling; Charles Zimmerman, Sterling; James Kirchgassner, Larned; Herbert Burges, Nickerson.

**MID-KANSAS:** Robert Hull, El Dorado; Chester Unruh, Hillsboro; Dwight Hull, Jr., El Dorado; J. W. Regier, Moundridge; Alvin Penner, Hillsboro.

**SOUTH CENTRAL:** Leon Payne, Winfield; W. H. Hardy, Sr., Arkansas City; W. H. Hardy, Jr., Arkansas City; Mrs. W. H. Hardy, Sr., Arkansas City; Edgar Tolles, Cedar Vale.

**SOUTHEAST:** R. H. Kroenke, Hepler; Edgar Kroenke, Walnut; Mrs. Robert Karn, Humboldt; A. F. Bolte, Hepler, Mrs. Edgar Kroenke, Walnut.

### Guernsey

**SOUTHEAST KANSAS:** Merle Mueller, Humboldt; Roy Neher, Oswego; Doyle Mustard, McCune; Etta Baugh, Walnut; Dale Hall, Baxter Springs.

**NORTHEAST KANSAS:** W. V. Redding, Holton; Gale Millerbruck, Everest; Walt W. Babbit, Oskaloosa; Charles Marsh, Highland; Fred Marsh, Highland.

**KAW VALLEY:** Ed Eckman, Baldwin; Wilbur Brockway, Wellsville; Albert Eckman, Baldwin; Cecil Duver, Lawrence; Eldon Hoyt and W. G. Ransom, Jr., Homewood, tied for 5th.

**SOUTH CENTRAL:** Lloyd Hershberger, Hutchinson; W. W. Graber, Pretty Prairie; H. H. Herbert, Hillsboro; Dave Goering, Moundridge; George Jost, Hillsboro; Mrs. Ernest Adams, Newton.

### Holstein

**WESTCENTRAL:** Chester DeWerff, Ellinwood; Roland Bircher, Ellsworth; Richard Evans, Hutchinson; Mrs. Hobart McVay, Nickerson; T. Hobart McVay, Nickerson.

**ARK VALLEY:** Clifford Clear, Mulvane; Harold Daniels, Wichita; Eldon Gerring, Newton; Don Hopkins, Clearwater; Dale Kubin, McPherson.

**SOUTH CENTRAL:** R. G. Roberts, Pratt; Wilbur Sloan, Cleveland; Earl Borgett, Zenda; Dale Hughes, Waldron; Leo Hostetler, Harper.

**EAST CENTRAL:** Grover Meyer, Basehor; Ronald Robb, Lawrence; Pete Langden, Paola; Guy Trimmell, Garnett; Louis Sherman, Paola.

**CAPITOL:** Glenn Palmer, Topeka; Gene Holston, Lyndon; Gene Smith, Topeka; Howard Vernon, Admire; Mrs. Gene Smith, Topeka.

**SOUTHEAST:** Laverne Modesitt, Thayer; W. R. Stewart, Caney; Mrs. Eli Ropp, Toronto; Mrs. Frances Grilott, Parsons; Raymond Baker, Iola.

## KANSAS FARMER

Continuing Mail & Breeze

121-123 West 8th St.

Topeka, Kansas

Vol. 87, No. 10

**ARTHUR CAPPER** ..... Publisher  
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**NORTHEAST:** Mrs. Harvey Bechtelheimer, Sabetha; Edward Draney, Seneca; Herman Torkelson, Everest; Tonnes Torkelson, Hiawatha; Paul Rottinghaus, Horton.

**NORTH CENTRAL:** Martin Blanke, Bremen; Louis Platt, Lebanon; Mrs. Herbert Hatesohl, Greenleaf; Mrs. K. W. Phillips, Manhattan; Mrs. Bernard Fickel, Clay Center.

### Milking Shorthorn

**NORTHWEST:** Leroy Harvey, Hill City; Walter Stroyek, Edson; Edward Wolf, Quinter; Gay Henry, Colby; John A. Yelek, Rexford.

**SOUTHWEST:** Gary C. Brown, Great Bend; John S. Hoffman, Ensign; H. R. Lucas, Macksville; John Timken, Cimarron; Frank Ellsaesser, Hugoton.

**NORTH CENTRAL:** Mrs. V. D. Jones, Council Grove; Warren Dix, Delavan; W. A. Hegel, Lost Springs; Leo Dike, Council Grove; Charles Dalquest, Wilsey.

**SOUTH CENTRAL:** Albert Frantz, Tampa; Edwin R. Funk, Hillsboro; Elmer Knackstedt, Inman; Mrs. Carl T. Stucky, McPherson; R. O. Evans, Wellington.

**NORTHEAST:** Myrton Gordon, Whiting; Mrs. Leon Gordon, Horton;

Ruth Leslie, Goff; Mrs. Glenn Weaver, Hamlin; John E. Tate, Horton.

**SOUTHEAST:** Fern Manspeaker, Garnett; Mrs. Russell McDaniel, Walnut; S. T. Casey, Waverly; Leona Casey, Waverly; Mrs. A. W. McClintick, Walnut.

### Extra Yield

The Shaeffer brothers, Ralph and Dee, of Cherokee county, are sold on sweet clover ahead of corn. Says Ralph: "Our corn following sweet clover is making 15 to 20 bushels more an acre."

Since Shaeffer brothers, are farming about 1,000 acres you can figure for yourself what this would mean.

### Without Native Grass

If you live in Southeast Kansas and have little or no native pasture, you still can work out a good modified deferred-feeding program on steers by using temporary pastures. That is the plan being used successfully by Ed and Leo Martin, of Cherokee county.

Here is the program they are following on deferred steers: Sweet clover and Balbo rye pasture in the fall. Fifteen to 20 pounds of alfalfa silage, plus alfalfa and prairie hay and a small amount of grain during winter months. Last winter 21 head of steers on the Martin farm got less than a bushel of grain a day during the feeding period. The steers go back to sweet clover and Balbo rye again in the

### Buffalo Dairy

World's biggest dairy is not in Wisconsin, but in a suburb of Bombay, India—designed to promote sanitary milk methods. It is being built to consist of 32 units to handle a herd of 20,000 buffaloes, from which all local milk comes.

Owners of the buffaloes will retain possession of their animals, but the government will provide facilities and feed at cost.

spring for about 2 months, then are put into the feed lot for a finish feed and marketed the last of August or early in September.

Benefits of this program are more far-reaching, however, than just putting weight on steers. By keeping about one third of their farm land in legumes, Martin Brothers find their original poor soil is being brought up to a good standard of fertility and is much easier to work.

### Senator Capper on Radio

Every Sunday afternoon at 12:30 o'clock Senator Arthur Capper discusses national questions over WIBW radio station.



**"4-lister" D2 lists 5 acres hourly  
on only 2 gals. of Diesel fuel**

...for R. G. Dunn, St. John, Kansas

Soft draws, sandy knolls — but this 4-lister Diesel D2 hikes steadily along. Pulls its big load at fourth speed, to list 5 acres hourly, on only 2 gallons of low-cost fuel!

"This D2 has worked 4523 hours," says owner Russell G. Dunn, St. John, Kansas. "It has been my greatest and best tractor for all types of farming."

Under average Kansas conditions, the 32-H.P. D2 pulls 4 listers at third speed. Then it stays on the ridges like a trained team — to cultivate 60 acres of row-crop in 10

hours. And saves 60% to 80% on fuel expense annually!

That's all-soil traction and heavy-duty Diesel power at work! Owners of "Caterpillar" Diesel Tractors farm in the select group that leads the economy parade! 5 practical sizes for Kansans — 32 to 130 drawbar horsepower. Request full facts on the size you need.

At any one of the Kansas towns listed below, your local Caterpillar dealer will gladly quote you price of D2, 40-inch gauge as pictured above delivered on your farm equipped as you need it.

## CATERPILLAR

DIESEL ENGINES • TRACTORS • MOTOR GRADERS  
EARTHMOVING EQUIPMENT

Your  
KANSAS  
"CATERPILLAR"  
DIESEL TRACTOR  
HEADQUARTERS

**FOLEY**  
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**MARTIN**  
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**OEHLERT**  
TRACTOR & EQUIPMENT CO., INC.  
SALINA • COLBY • HAYS

**ROBERTS**  
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DODGE CITY • LIBERAL



## No. 1 Villain

The wheat weevil is costing Kansas farmers 8 million dollars a year in shrinkage of stored grain. Stop him now by taking the proper steps before your wheat is binned.



**HE LIKES DIRT:** Cliff Skiver, right, director Kansas Wheat Improvement Association, explains to John Doebert, Riley county farmer, how weevil hides in old grain or other residue left on wall or floor.

# Stop!

## Grain Damage

### Sweep—Repair—Spray—to Control Weevils

**I**T IS COSTING Kansas wheat farmers 8 million dollars a year to keep the wheat weevil happy," says Cliff Skiver, director of the Kansas Wheat Improvement Association, Manhattan. "Most of this damage occurs in the first 4 months of storage. When wheat is selling at \$2 a bushel, damage from weevils will deduct 9 cents a bushel," says Mr. Skiver. "Farmers think their only loss is in dockage," he explains, "but most of the loss is in the shrink in weight, a fact the farmer has no way of checking." Shrinkage ranges from 2 to 14 per cent in infested wheat.

This shrink has been computed in studies conducted by the Bureau of Entomology and Plant Quarantine, U. S. D. A.

What can you do to prevent this loss? There are a few simple steps to take where grain is to be stored on the farm. Here they are:

1. Prepare your bin about 3 weeks before harvest by thoroughly cleaning it of all cobwebs, old grain or any refuse. Walls and flooring should both be cleaned.
2. Repair cracks or holes in walls and flooring. A tight bin is the safest against weevil infestation.
3. Spray walls and floors with a proved DDT solution, using 2 gallons of any 2½ per cent DDT solution per 1,000 square feet of bin surface. Spraying should be done at least 3 weeks before bin is used so residual effect of spray will have time to kill the weevils.
4. After wheat is in the bin, watch it closely for infestation. If any occurs, fumigate immediately with any reliable commercial fumigant, being sure to follow manufacturer's directions for best results.

All 4 steps are necessary for success.



**TIGHT BIN SAFEST:** Mr. Doebert covers a hole in the bin floor by nailing down a board over the opening.



**SPRAY PLENTY EARLY:** With bin cleaned and repaired, Mr. Doebert sprays at least 3 weeks before harvest so residual effect of DDT will have time to work.

# Farm Matters

## AS I SEE THEM

I AM WRITING this editorial from Washington, where I am spending a few days looking things over and visiting friends. This is my first trip to the National Capital since I left the Senate, some 16 months ago.

Incidentally, that is the longest period away from Washington in the more than 31 years since I took a seat in the Senate, back in 1919.

I believe the thing that impressed me most, almost to the point of shock, is the war atmosphere that prevails in Washington.

Friends in Washington congratulate me upon living in Topeka—"You won't be atom-bombed out there"—some of them just say "bombed." And they say it very seriously.

Government records that have to be preserved are being microfilmed and sent to "safe places"—not designated. It is not believed they are being hidden in pumpkins, however; at least not the microfilms made officially for government record purposes.

The day after I arrived in Washington the chairman of the munitions board addressed several hundred business and industrial leaders of the nation.

Among other things, Chairman Hubert E. Howard told these men that the Army, Navy and Airforce would place orders for \$41,000,000,000 (41 billion dollars) worth of war materials in the first 6 months of an emergency.

Plants would be working on 16 to 17 billion dollars of contracts "if war started tomorrow," he was quoted as saying at a press conference preceding the meeting.

The tension of the "cold war" with Russia, he declared, has tightened to the extent that "we are compelled to view our programs more and more from the viewpoint of immediate emergencies, and not on a long-range basis. In the light of the stark realism of Russia's course, no thinking man will deny that a danger is now presented to the security and life of our Nation as great, if not greater, than at any peacetime period in our history."

Congress is being urged to extend the peacetime draft act for another 2 years. Government officials expect the Congress to appropriate a billion or so more dollars for military purposes than was asked in the budget message last January.

Of course, I had learned over the years that when Congress reaches the appropriation bills, there nearly always is an increase in the number and size of war threats. But it really came as a shock to me, the general impression here that war not only is inevitable, but perhaps imminent.

I can hardly believe it, myself. But that is the Washington atmosphere today.

There is much interest in official circles here also in the developments coming from Secretary of State Dean Acheson's meeting with foreign ministers of France and Britain, and later with representatives of the other nations in the North Atlantic Pact.

From preliminary statements one can see the pattern. The North Atlantic Pact is to be enlarged to take in Southeast Asia, as well as Western Germany. Also, I believe, Secretary Acheson will come back to the United States with a program calling for more and more

costly participation—economic and military—in Western European affairs.

Dispatches this week seem to point up as a fact that Britain will hold pretty much aloof from co-operation with the nations of continental Europe, unless the United States make firmer and more binding commitments.

Our State Department in past months has been raising objections to the various plans for a North Atlantic union—practically a federal union of nations to include the United States—but the implications in overseas dispatches seem to be that a big drive on American public opinion in that direction is going to come soon.

Of course, we are in a military alliance with 11 other nations now, thru the North Atlantic Pact. But that does not seem to satisfy some of our overseas cousins. They want a western civilization supergovernment, and they want the United States in it and under it.

I am not too happy over what I have sensed in these few days in Washington.

### June Is Dairy Month

CALL your attention to the fact that June is Dairy Month. To my way of thinking it is one of the most important "special months." Not only because it helps sell more milk. But because no other food is more important to the health and well-being of our people than milk. It is quite fitting that health-building and health-maintaining qualities of milk should be literally "shouted from the housetops" during June's 30 days.

And that is exactly the purpose of Dairy Month. To get more people to use more dairy products. This special dairy sales campaign has the endorsement of official Washington, governors of many states will proclaim Dairy Month, it has strong support of railroads, variety stores, restaurant associations, food and drug stores and organizations, farm magazines, general magazines, newspapers, radio, farmers and dairymen.

This is one of the strongest selling campaigns I ever have witnessed. With all of these organizations and individuals just mentioned working to tell our 150 million people about milk, it doesn't seem likely very many persons will be missed.

This "Dairy Month" type of advertising and selling milk and dairy products has been going on a long time—this is the 14th consecutive year. Does it help the Nation's 5 million dairy farmers? Does it actually move more milk from farms to the 41 million family tables? I have a statement from the National Dairy Council showing in the past campaigns, dairies, food stores, fountains and restaurants have actually increased sales of dairy foods 20 to 30 per cent during Dairy Month over ordinary months. So there isn't any guesswork about the power of advertising in this case. What it suggests to me is that more advertising the other 11 months of the year would sell more dairy products those months, also.

I don't believe total annual sales of milk and dairy products are as high as they might be.

Not that a good job isn't being done. I note that in food stores, dairy-product sales account for an average of 22 per cent of their total sales. And considering the fact there are about 3,000 different items in a good food store, and that according

to the National Dairy Council, total national food store volume is around 30½ billion dollars annually, the dairy industry isn't entirely left out in the cold. But here is the point. A little more punch in advertising will increase that 22 per cent. Some stores make dairy sales account for 30 per cent of the total store volume.

A good job of selling dairy products is being done. But it can be better. When we look at competitive figures—what other lines are doing—it indicates there is room for more progress. The National Dairy Council points out that since 1940, dairy products have gained only 4 per cent in volume of sales (by weight) compared to 13 per cent for fresh produce, 17 per cent for meats, 32 per cent for eggs and poultry, and 45 per cent for packaged goods.

Now, you can't blame these other lines for digging into the market and getting all the sales volume they can. That is good business. And it is just as good business for the dairy industry to pitch in for all it is worth every month in the year.

I think you might be interested in this statement from the U. S. Department of Agriculture: "Last year (1949) brought the end of the longest decline in number of milk cows on record as the Nation's farmers began to increase their herds in response to larger feed supplies and anticipation of less-favorable returns from other enterprises.

"On January 1, 1950, 24,625,000 head of cows and heifers 2 years old and over were being kept for milk on farms, about 1 per cent more than a year earlier. The number previously had declined for 5 years to a low early last spring. At that time, the number was about 12 per cent below the peak of mid-1944 and smallest since 1931 . . . When 1949 began, numbers of milk cows in the Plains states (including Kansas) were lowest in from 20 to 50 years. Gains in 1949 were the first in 5 or 6 years."

So it looks as if milk supply will be higher. Which is another good reason for additional advertising and selling to the public. Some help will come from an increased population. Over the next 25 years, USDA says, there is a good chance that population will grow about 1 million a year. At high levels of consumer income, this could mean a potential market for 15 to 20 per cent more dairy products. "In the more immediate future, the trend will depend considerably on the market for butter. Butter consumption per person is now only about three-fifths as high as prewar. Every change of 1 pound in butter consumed per person would mean about 3 billion pounds of milk, or at current levels of production per cow, about half a million cows."

Dairying has every good reason for growing and prospering. And I am sure it will.

*Arthur Capper*

Washington, D. C.

## President Takes Brannan Plan on Tour

By CLIF STRATTON

Kansas Farmer's National Affairs Editor

PRESIDENT TRUMAN opened fire last week on the "mud-slinging, name-calling opposition" which he declared fights every new proposal to benefit the country.

Specifically, he attacked opponents of the Brannan Farm Plan, along lines reminiscent in 1950 of the campaign he conducted against the Republican 80th Congress in 1948. In 1948 he frightened the Republican leadership

out of defending their own Congress—and won the election for himself.

The Brannan Plan, President Truman declared, not only will give consumers low-priced food, and farmers' high incomes (thru subsidies from the

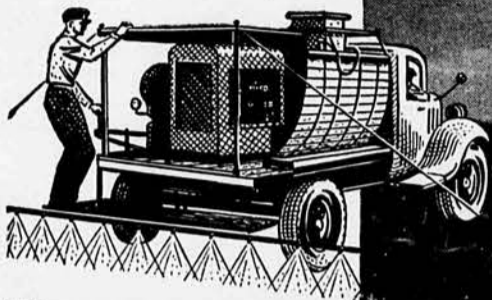
Federal Treasury), but also will be a long step toward world peace and prosperity. He did not claim it would cure polio, ringworm or liver complaint.

"The plain fact is," President Truman told the crowds which greeted

him on his "whistle-stop" campaign tour across 16 states, from Maryland to Oregon, "that the production payment plan is the best plan yet proposed for getting an abundant production of perishable crops consumed without knocking the bottom out of the farmer's income . . .

"If we are to win thru to peace, we must maintain a strong and healthy (Continued on Page 40)

# Farm Service Bulletin



## 1 GET SUMMER BLIGHT PROTECTION NOW!

Defense tactics against grasshoppers, weevils, hoppers and other pests should be put in operation now. Depend upon your county agent or the USDA for reliable information.



## 2 INCREASE MILK PRODUCTION

The United States Department of Agriculture tests at Beltsville, Md. show that harvesting an acre of alfalfa as grass silage, saved 16% more nutrients than field cured hay. This method made possible a 16% increase in milk production per acre.



## 3 SAVE MONEY, GET GREATER VALUE

An illustrated booklet based upon USDA research, tells what materials and workmanship to expect in suits of different grades. A shoulder pad test is shown here. Send 15¢ in coin to Supt. Documents, Washington 25, D. C., for helpful new booklet "Buying Men's Suits."



## 4 BEST FARM MOTOR OIL KNOWN TO SCIENCE

This new lubricating oil plant at Lake Charles, La. is now producing the new "Heart-Cut" motor oil which gives greater engine protection, more powerful performance. Ask your Cities Service Farm Representative for Premium Koolmotor Oil.



**5 ALL-WEATHER, ALL-PURPOSE GREASES**  
The Cities Service line of Trojan greases for farm machinery is unsurpassed in quality and performance.

## Big Poultry Exposition

COMMITTEE assignments for the Kansas Poultry Exposition are being made and work will start soon on all phases of the event. M. A. Seaton, Extension poultryman at Kansas State College, is the exposition manager.

To be held December 7 to 9, in Emporia, this will be the largest poultry event ever held in Kansas and will include many outstanding features, Seaton says. All phases of the poultry industry will be included. There will be educational exhibits, an educational program, a live-bird poultry show, an egg show, hatchery-flock show, dressed-turkey and dressed-broiler shows, baby-chick show, and many activities for 4-H Club and FFA members.

Educational exhibits will be sponsored by the U. S. Department of Agriculture, Kansas State Board of Agriculture and Kansas State College. An educational program including many out-of-state speakers will be held in connection with the exposition.

Poultry from Kansas and other states will be entered in a live-bird show including large birds; bantams, and turkeys.

## Saved Hay

"I saved \$125 worth of hay during the sweet clover pasture period last fall and this spring," says Andrew Aubert, of Cherokee county. He has been pasturing 38 head of dairy cows and calves on 23 acres of sweet clover.

Last fall, Mr. Aubert turned his cows on sweet clover early in September. "I got 6 weeks of good pasture and 2 weeks of fair pasture before I had to take the cattle off," he says. "Then, I put the cattle back onto sweet clover on Easter Sunday and got a lot of pasture this spring," he continues.

Corn yields following sweet clover also have increased on the Aubert farm. "On one small field last year, my corn following sweet clover yielded 40 bushels an acre more than surrounding fields," he states.

## Always Cool Milk Right

Using cold water to cool milk cans is just as important during the winter as it is in hot weather, warns W. H. Chilson, of the Kansas State College dairy husbandry department.

Cold water gives rapid cooling and protection against freezing, says Mr. Chilson. If milk is left exposed, even to winter air, several hours will be required to cool the milk in a 10-gallon can to 50 degrees Fahrenheit. This slow cooling allows bacterial growth to take place, which starts the milk to sour or spoil. Then, too, if the milk can is allowed to sit outside until the milk freezes around the edges the man at the milk plant is going to be unhappy.

## Big Honey Crop

Nearly 230 million pounds of honey were harvested from the nation's beehives in 1949, announces the U. S. Department of Agriculture. That makes it the second largest honey crop on record.

Honeybees are becoming increasingly important for pollinating farm crops, the department reports. The day may come, it predicts, when the owner of bees will receive more pay from farmers for bees as pollinizers than from the honey the bees produce.

## 6 Quarters a Day

You can pay for that used car while you drive in some cities, it is reported by a national magazine. Coin meters are being installed on instrument panels of used cars, it is said.

Here's how it works. After making your down payment, you must put a quarter in the slot before the ignition can be turned on. A warning buzzer sounds when another quarter is due. You have 5 miles in which to dig up another coin before the ignition switches off.

Six quarters a day for 2 years, it is said, will pay off a \$1,000 balance on the car.

# CITIES



# SERVICE

QUALITY PETROLEUM PRODUCTS

Accessories for the farm

## Three 4-H'ers to Europe

Watch for Their Letters in KANSAS FARMER

THREE Kansas 4-H delegates will go to Europe this summer in the International Farm Youth Exchange program. They will be leaving by air early in June, and will return by ship early in November, arriving in New York about midmonth.

Representing Kansas this time will be H. Dale Johnson, Salina, scheduled to go to Finland; Mary Lou Edwards, Manhattan, going to Wales unless plans are changed, and Ivan Schmedemann, Junction City, who will go to Germany. All are students at Kansas State College. They will join 40 or more 4-H Club members and junior leaders from other organizations in Washington for the hop-off to London.

KANSAS FARMER is delighted to help finance the trips for our 3 Kansas folks, and will bring you letters from Dale, Mary and Ivan while they are overseas. Watch for these letters and enjoy them.

H. DALE JOHNSON was a member of the Bavaria Live-wire 4-H Club of Saline county 7 years, secretary and president 2 years. Later he was county council president 2 years. After being a junior leader 4 years he was county leadership champion.

Favorite project was sheep, and he received county sheep championship. He carried beef, pig, and dairy projects and was county livestock champion.

In the summer of 1946, he received a Camp Miniwanca trip, and in 1947 was a state winner in 4-H promotion.

At K-State he has belonged to the Collegiate 4-H Club for 6 semesters, and has been a county representative for Who's Who. In 1948-1949 he was sales manager for the annual. Last semester he served as Collegiate Club reporter.

MARY LOU EDWARDS is the daughter of Mr. and Mrs. Richard Edwards, of Manhattan. At present she is a junior at Kansas State College majoring in Home Economics and Extension.

Mary Lou and her 2 brothers and one sister were born in Lyon county, near Emporia. She attended rural schools in Lyon county and graduated from Emporia high school. In 1938 she became an associate 4-H member in Lyon county and for the following 9 years was enrolled in home economics and livestock projects. Later, after moving to Manhattan, she finished 2 more years of club work in Riley county.

She was county general home economics champion, a state blue-ribbon winner in health, and won second place in home economics judging at the State Fair. She has held offices of president, vice-president, secretary-treasurer, reporter, county council member, recreation and song leader, and was county council secretary-treasurer.

For the last 3 years she has been a member of Rural Life in Lyon and Riley counties. During that time she has been social-recreation chairman and vice-president-program chairman.

She entered Kansas State on a Sears-Roebuck scholarship awarded for outstanding achievement in 4-H. She has been an active member of the Collegiate 4-H Club for the last 3 years, serving as club secretary-treasurer, member of the executive council, and



Mary Lou Edwards

2 years Riley county representative for Who's Who, Kansas 4-H Club yearbook. Last summer she worked as a junior assistant home demonstration agent in Rice county.

IVAN W. SCHMEDEMANN is a charter member of the Clarks Creek 4-H Club which was organized in November of 1942. He had one year of club work previous to this, a total of 9 years. He was vice-president in 1947 and president of the club in 1948. He has been a member of the Geary county Who's Who Club 6 years, and a member of the State Who's Who Club 2 years.

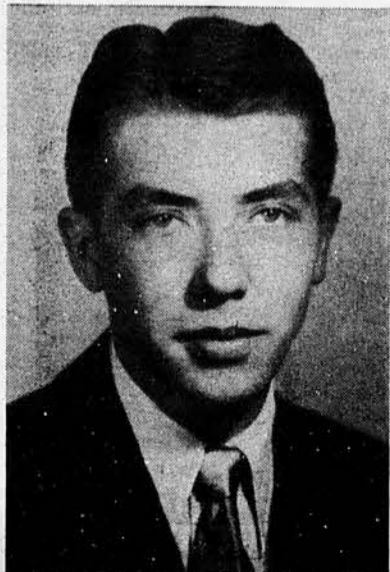
He has completed 36 projects made up of baby beef, corn, wheat, sorgo, potatoes, junior leadership, and health activity. In 9 years of club work he has entered 99 exhibits at the county fair and 15 exhibits at state fairs. He has given talks, demonstrations, acted as a member of play casts and model meetings given at the county festival.

He attended the American Royal twice because of the club winning a free trip in the State Safety Contest and Health Contest.

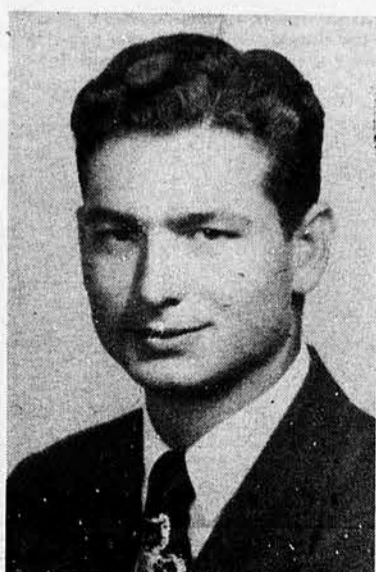
In 1948 he won the best groomed boy contest at the Geary county fair and received a blue ribbon at the state contest at Hutchinson.

He was president of the Clarks Creek 4-H Club when it was awarded the state championship in health work. At the same time he was carrying the individual health project and won the state championship which gave him a trip to the National 4-H Club Congress held at Chicago.

In 1948 he joined the Collegiate 4-H Club at Kansas State College. Was one of the committee which selected members for the State 4-H Who's Who Club. He is a member of the advisory board making plans for the 1950 State Health Camp, and is now working as a member of the Collegiate 4-H Clubs' broadcasting committee. In March he attended the State Rural Life Conference as a delegate of the Collegiate 4-H Club. At present he is a sophomore in Agriculture education.



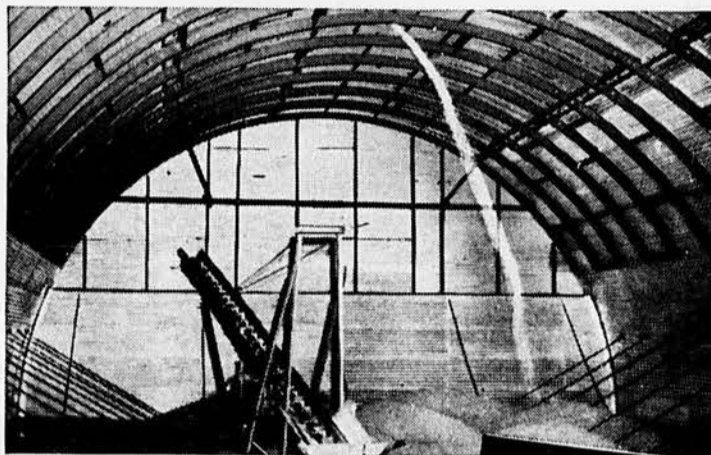
H. Dale Johnson



Ivan W. Schmedemann

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Part of the Kansas State College beef cattle herd on bluestem pasture near Manhattan.



Maintenance of brome grass seed yields by use of nitrogen fertilizer. Plot at left received 300 pounds ammonium nitrate fertilizer an acre and yielded more than 500 pounds of seed to the acre. Plot at right, receiving no fertilizer, yielded less than 50 pounds of seed an acre.

## No. 8 Reviewing farming progress and looking into the future

# Striking Changes Seen In Kansas Pastures

By KLING L. ANDERSON

Department of Agronomy, Kansas State College

A DECADE before 1900, trail herds were still coming in great numbers to Kansas. These stopped with all of our ranges in private holdings. But note this: Western and Central Kansas range pastures, and farm pastures in eastern counties, already had suffered some overgrazing. Bluegrass had taken over many pastures in Eastern Kansas so the area east of the Flint Hills was called the bluegrass region.

The Great Plains had been overgrazed since the early 1870's and forage depletion had become severe by the time of the great blizzard of 1885-86. Buffalo grass and blue grama had assumed a completely dominant role where they once shared with scattered mid-grasses. Only the great bluestem pastures of the Flint Hills remained relatively unharmed by excessive use at the turn of the century. There the true prairie grasses of the bluestem type were in complete control of the situation.

In 1900, records of the Kansas State Board of Agriculture showed the state still had about 36 million acres of permanent grassland, but less than 7 million acres of it were under fence. All of this, except a few areas in Eastern Kansas where Kentucky bluegrass had taken over, was unbroken native grassland. Today Kansas has only 20 million acres of permanent range and pasture land, and this includes cultivated or tame pastures, such as brome grass and orchard grass and others of that type, as well as bluegrass pastures. Also included are depleted areas sown to lespedeza and allowed to revert to so-called "native pasture."

### More Acreage Needed

Not only has there been a change in pasture acreage since 1900, but also a gradual decline in carrying capacity. Average number of acres allowed per head on native pasture in 1900 was 2 in Eastern Kansas. This was gradually increased toward the western part of

the state. Morris county reported allowance of 1½ to 3 acres per head, Labette county, 2½ acres, Osage county 2½ acres, Rooks county 4 acres, and Phillips county 5 acres. It was pointed out that grazing capacity of native pastures had even then decreased during the previous few years, and that this decrease had been the result of overpasturing.

Weeds had become abundant in some pastures, and a list of the weeds of that day included essentially the same ones that are important in our pastures today.

Those heavy stocking rates emphasize the fact that carrying capacities then were much greater than they are now. Gradual decline in carrying capacity over the years has been one of the important changes that has taken place in our pastures during the first half of this century.

### Brome Grass Spreads

Many other striking changes have taken place in pastures and pasture crops, management practices, and in



A vigorous hybrid of Sudan grass. Johnson grass being increased by Kansas State College department of agronomy for testing. Photographed September 15, 1949.

attitudes and thinking of the people who manage pastures. One of the significant ones has been the introduction and spread of brome grass. Just 5 years prior to the beginning of this century Achenbach brothers, of Washington county, Kansas, had purchased and planted seed of this new crop, which had been introduced into the United States scarcely 15 years earlier by the California Agricultural Experiment Station. It gave such promise on the Achenbach farm that the following year they selected sufficient seed from outstanding plants to sow a small increase plot. This was the foundation of what is now called the Achenbach strain. Today Kansas has more than 300,000 acres of brome grass and produces seed sought after by Corn Belt farmers for planting in crop rotations.

### How Sudan Helps

Another introduced grass that has had a spectacular history, in Kansas and the United States, is Sudan grass. This grass, a summer-growing annual, has done much to supplement our native pastures and make a better balanced pasture program. It was first introduced into the United States from Africa in 1909 and soon became popular in all of Kansas. The original type, known as common Sudan grass, is still widely grown and, in addition, there have been several bred strains resulting from crosses of juicy-stalked sorghums with Sudan grass. These crosses have produced varieties more palatable than the original introduction, and

somewhat more resistant to chinch bugs and to the leaf diseases that sometimes plague Sudan grass in Eastern Kansas.

Many introduced grasses have been tried in Kansas. An extremely important one during the early part of this century was meadow fescue, then widely grown in the east-central counties. At the turn of the century Kansas was the leading state in production of meadow fescue seed, and great quantities were exported to Europe under the name English bluegrass. Today meadow fescue is still grown in a limited way in Eastern Kansas.

### A Place of Honor

Another pasture crop that enjoys widespread use in Kansas is the biennial legume, sweet clover. Both the white and the yellow blossom varieties are popular as soil improving and as pasture crops. Once considered a weed in Kansas, it now has an honored place among our pasture crops. Many other introduced legumes are of major importance for grazing. Alfalfa, so widely used for hay, also is an important constituent of tame pastures. Early in this century it became the chief legume for seeding in mixtures with brome grass and the other cool-season grasses used to supplement and extend the grazing season from about 6 months of pasture provided by native grasses to 10 months or more.

Other pasture legumes include white clover, which occurs naturally with bluegrass in eastern counties; alsike clover, which is used on the wetter, more acid soils in combination with such grasses as redtop; and Korean lespedeza, a summer-growing annual now widely grown in the so-called "permanent pastures" of Eastern Kansas, the depleted lands that have been seeded to this crop.

### Lespedeza at \$1 a Pound

Korean lespedeza was first introduced into the United States in 1919. It was tested by the United States Department of Agriculture at Arlington, Va. It was just beginning to be known in Kansas by 1930. A few fields had been grown here and seed was being advertised at \$1 a pound. It now is probably the most common legume in pastures in Eastern Kansas. Not only does it occur in permanent pastures where it has been planted, but also is widely

(Continued on Page 36)



Brome grass on bottom land in Wabaunsee county showing "corn land" being profitably used for pasture on the farm of Arthur Adams, Maplehill.

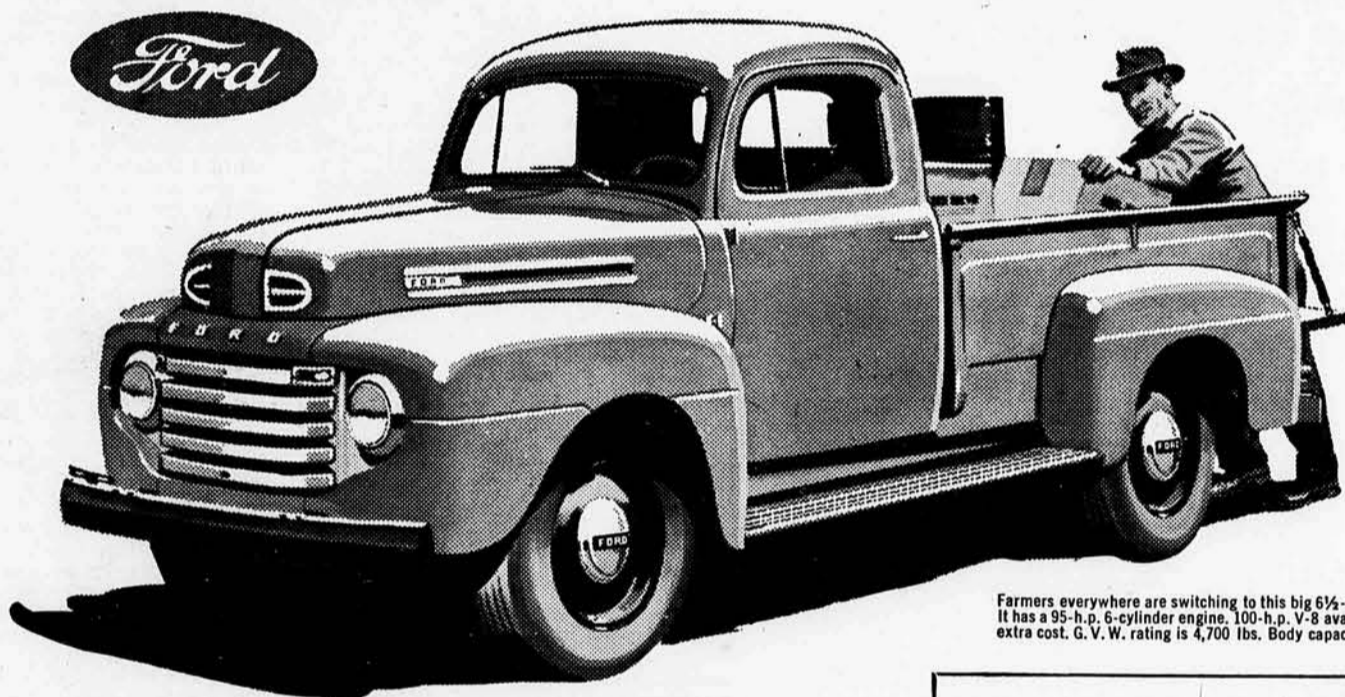


An improved strain of big bluestem being grown on agronomy farm, Kansas State College. It is a selection from native bluestems collected in Kansas.



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Over 175 models to choose from! Whatever your farm hauling requirements are, there's an Economy Ford Truck to do the job and to do it for less cost. Truck users everywhere are switching to Ford. And the proof of this fact is that Ford is currently making the industry's biggest sales gains. See us for these extra values.—plus prompt delivery, good trade-in allowances, liberal terms!

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# A PENNY SAVED

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## June Is Dairy Month

Benefits in the future, for your dairy farm and America's dairy industry will be only part of the return on your investment of one cent for each pound of butterfat sold during June.

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**In More Research**  
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**In Public Appreciation of Dairying Importance**

These are but a few of the many programs carried out during 12 months of the year by your **Kansas and American Dairy Associations.**

Your local milk and cream buyers throughout the state will serve as your banker during June and invest your pennies in the work of these organizations, visit him today and plan to

**INVEST In Dairying Today---**  
**ENJOY Dairy Progress Tomorrow**

**Kansas State Dairy Association**  
**State Capitol, Topeka**

## Coming, June 3 . . .

Whew! Farming still is plenty of work. But how would you like to spend 55 hours planting and harvesting one acre of wheat? How different those "olden days" were from today when there is an all-purpose combine available that will handle 125 different crops.

Coming in the June 3, 1950, issue of *Kansas Farmer* will be the whole story of how and when power farming equipment came to the farm—its step-by-step progress, the problems faced. Here will be an article bringing you up-to-date on all that's happened in farm mechanization, and predicting what likely will come in the future.

Written by one of the top authorities in Agricultural engineering, this will be an article you will wish to keep. Watch for it in the June 3, issue of *Kansas Farmer*.

## The Cover Picture

By ED RUPP

**W**INGS over Topeka." That will be a reality June 1 and 2, when several hundred Kansas Flying Farmer members from over the state glide into Topeka airports for the 5th annual state convention of the group.

Arriving during the morning of the first day, the sky will be full of airplanes as suggested by the picture on the cover of this issue of *KANSAS FARMER*. The aerial photo of the Capital city was provided by *Harold Wolfe, of Wolfe's Photo Shop, Topeka.*

It was just 4 short years ago that *KANSAS FARMER* made arrangements for the organization meeting of the Kansas Flying Farmers at Hutchinson. Flying Farmers were almost a novelty at the time. The war was not far in the past. A handful of 30 farm flyers agreed with *KANSAS FARMER* magazine that there should be a state organization. Flying Farmers were so scarce at the time that a crowd of nearly 5,000 turned out to see these rural aviators at their first meeting.

### Kansas Group Is Largest

Surprising part of the first meeting was that 131 Kansas farm flyers signed up that day to become charter members of the new organization. At the outset it was the largest state organization of farm flyers. And the Kansas group still is the largest, having increased its membership 6 times since the organization meeting.

From both state and national standpoints, Flying Farmers today are looked upon as the most valuable representatives of personal flying.

*KANSAS FARMER* magazine joins with the Topeka Chamber of Commerce, Topeka airports, airlines, Women's National Aeronautical Association and Topeka business firms in welcoming the Kansas Flying Farmers to the Capital city.

From the moment of arrival in the morning of June 1 until departure time in the afternoon of June 2, a full schedule of events has been planned. The registration desk in the Administration building, at Billard municipal airport, will be open from 9 in the morning until 4 in the afternoon of the first day. In addition to paying annual member-

ship dues at this desk, Flying Farmers will pick up annual banquet and early-bird breakfast tickets. Hotel reservations and luggage checking will take place at a counter close by. When arriving at the hotel later in the day, guests will need only to pick up their keys. Luggage will have been taken to the respective rooms.

There will be a full display of airplanes, aviation and farm equipment on the field during the first day. There will be a fight of jet planes. Also, free travel movies will be run continuously in the restaurant building on the airport for the enjoyment of Flying Farmers. These movies are being made available by airlines servicing Topeka.

Something new to the Kansas Flying Farmer conventions will be attempted this year. Flying Farmers and their wives are being urged to bring their children. Free movies which will appeal to the children will be shown in a special room in the Administration building. Children will be supervised by members of the Topeka chapter, Women's National Aeronautical Association, and members of the Topeka Wing Scout Troop. The second day they will take the children to Gage Park, at the west edge of Topeka, where they will be treated to an all-day picnic.

WNAA members also will be hostesses during the 2-day meet, helping to make Flying Farmers wives comfortable and help them to enjoy the convention to the utmost.

### Entertainment by WIBW

Shortly before noon, the WIBW Round-Up gang will be at the airport and make their daily broadcast directly from the scene of the headquarters hangar. Then after lunch, which will be available on the field, there will be a Civil Aeronautics Authority demonstration of a simulated cross country flight using all latest radio aids. Riley Whearty, of Kansas Industrial Development Commission, has arranged for this demonstration. It comes highly recommended. It is entertaining as well as educational. Among those who have reported seeing it are  
(Continued on Page 11)

## Jimmy Knew What to Do

**S**IX-YEAR-OLD Jimmy Grillot nearly stole the show at the SeKan Black and White Show, Parsons, when he entered the judging ring with a heifer calf entry. He is a son of Mr. and Mrs. Francis Grillot, Jr., of near Parsons.

Jimmy's calf gave him a bad time in the ring, but Jimmy knew just what to do to get the calf to settle down. This series of 3 pictures shows what happened when the *KANSAS FARMER* photographer tried to get a picture of Jimmy with his calf.



1. "Come on, now, that man wants to take our picture."  
2. "Oh, so you're going to be stubborn, eh?"  
3. "How's this?"

William Janssen, McPherson, president of the Kansas Flying Farmers, and Ailiff Neel, Windom, National director from Kansas.

In the afternoon, from 4 to 5 o'clock, wives of Flying Farmers will be guests of Mrs. Frank Carlson at a tea which will be served in the Governor's mansion. Following the tea they will join their flying husbands at the Kansan Hotel for the annual banquet scheduled to begin at 7 in the evening. It will be an all-entertainment banquet. Mexican music and entertainers, in commemoration of the 2 successive winter vacation trips made by Kansas Flying Farmers into Mexico. A square dance is being arranged to follow the banquet.

The following morning, June 2, Flying Farmers will get up at their usual hour and be ready for their breakfast which will be served from 6:30 until 7:30.

We happen to know that being ready for breakfast at 6:30 in the morning is not unusual for Flying Farmers. About a year ago we hitched a ride from Dodge City to McPherson with Ailiff Neel. Also in the plane were William Janssen and Howard Brockhoff, Fairview. They insisted on rolling out of bed before the sun made the new day halfway desirable. We managed to see our breakfast thru sleepy eyes and didn't get them fully opened until we landed at McPherson before 8 o'clock. They all wanted to get home in time to put in a full day's work. But after arriving we chewed the fat for at least 2 hours. And my head was nodding most of that time.

**Early-Bird Breakfast**

Anyway, this Early-Bird breakfast planned for 6:30 in the morning June 2 will be served ranch style. It will be informal. It is planned to complete breakfast in time for the annual meeting which begins at 8, again in the Kansan Roof Garden.

During the 2 hours allotted for the annual meeting, new officers will be named for the 1950-'51 year. Officers to be elected include president, men's and women's vice-presidents, secretary-treasurer and a national director. There will be other business to discuss during the 2-hour session.

After the business meeting, the Flying Farmers will be invited to take several tours in the city which will include the Goodyear passenger tire factory, the Capitol building, State Historical building and Capper Publications.

Flying Farmer families will be brought back to the Hotel Kansan after the tours and the picnic for children where they can prepare for their fights home that same afternoon.

**Faithful Service**

Longest crop-reporting service in Kansas history was broken recently with resignation after 50 years of John Dlabal, well-known farmer, of Wilson.

He is one of 3,000 voluntary crop reporters who help federal-state statisticians make up the reports so valuable to the farming industry.

During his 50 years of crop reporting Mr. Dlabal has seen many changes. Kansas acres devoted to crops have grown from 16 million to 29 million acres; wheat acreage has grown from 4 to 15 million acres; horse numbers have dropped from 1,100,000 head to about 206,000; corn has dropped from 8 to 2½ million acres; soybeans and flaxseed have come from nothing to be fairly important Kansas crops; cattle numbers have remained about the same but much has been done to improve the quality.



"What worries me is that you don't seem to have even the DESIRE to get well!"

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33.5%**

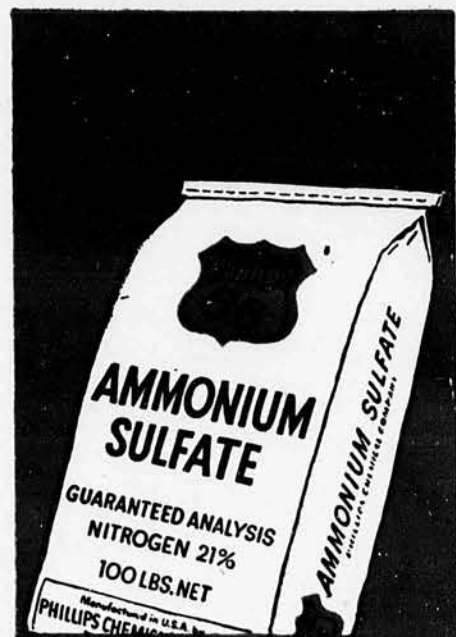
## High-nitrogen Phillips 66 Prilled Ammonium Nitrate Fertilizer... Available for Direct Application!

You can get Phillips 66 Prilled Ammonium Nitrate... now... through fertilizer suppliers in your vicinity! This valuable plant food delivers a guaranteed nitrogen content of 33.5%! It's easy to use as either a side dressing or a top dressing. Its uniform, *free-flowing* prilled pellets insure uniform drilling and spreading!

Get Phillips 66 Prilled Ammonium Nitrate from your regular supplier. If he doesn't have it on hand, write direct to us—Phillips Chemical Company, Fertilizer Sales Division, Bartlesville, Oklahoma. We'll tell you where you can get it.

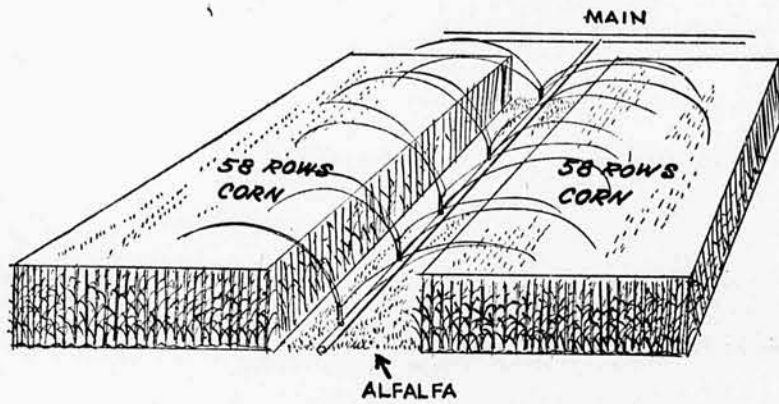
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Guaranteed to contain not less than 21% nitrogen, Phillips 66 Ammonium Sulfate is another great new product to help increase your crop yields.

## Grass Strips in Corn Aid Sprinkler Irrigation



With alfalfa strips thru his cornfields, Mr. Nehrig has solid footing for lateral irrigation lines. Alfalfa strips are 4 corn rows in width. This artist's drawing shows the layout of corn and alfalfa sprinkler strips on the Nehrig farm.

**S**PRINKLER irrigation of corn. Arnold Nehrig, Marshall county, has arranged an interesting pattern in his cornfields to make sprinkler irrigation practical in row crops. To take him out of the mud.

His cornfields are divided into plots, with 58 rows of corn in each plot. A vacant area, 4 corn rows wide, is left between these plots and seeded to brome and alfalfa. That is where he places his lateral sprinkler lines. With that arrangement Mr. Nehrig can drive thru his cornfields and lay the irrigation lines without knocking down corn. Then, after several inches of water have been sprinkled in that area of his cornfield, the lateral lines can be picked up and moved to a new location without worrying about getting mudded in. The brome and alfalfa sod provide solid footing for picking up the pipe.

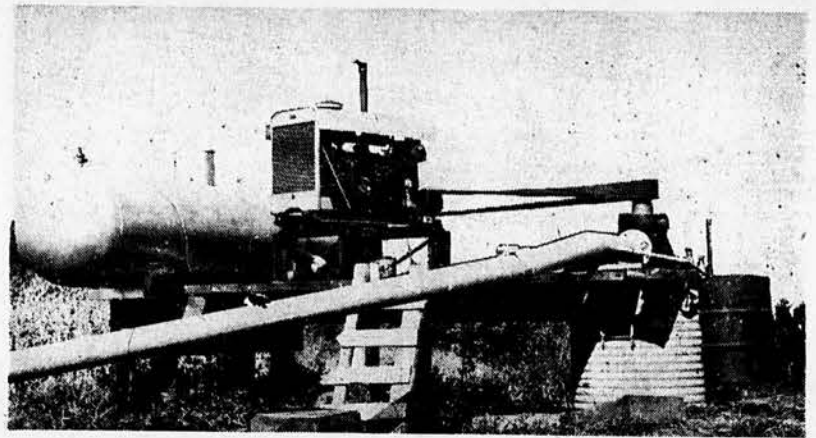
That 4-row strip is not wasted land, either. It produces good hay.

With that system Mr. Nehrig has eliminated expensive leveling operations on his river bottom farm.

Water is taken from the Big Blue river adjoining the Nehrig cornfields. It is pumped out at the rate of 900 gallons a minute under 90 pounds of pressure. That is enough to cover an acre of ground with 2 inches of water in one hour.

Last season Mr. Nehrig had sprinkler risers set 160 feet apart along the lateral lines. Next season he intends to space them closer, about 140 feet. It will provide better coverage. Risers for the sprinklers are about 6 feet high. And Mr. Nehrig says he employs big sprinklers and likes them. In fact he prefers big sprinklers to small ones.

While he is sprinkling corn, he can apply nitrogen fertilizer at the same time. A 50-gallon drum, open at one end, is attached alongside the main pump. With a side line he pumps water into the barrel where he adds nitrogen. This nitrated water is drawn into the main and sprinkled over the corn with the water. Properly placed cocks and gauges help him to regulate the flow of nitrated water in desired amounts.



This irrigation pump on Arnold Nehrig farm, Marshall county, takes water from Big Blue river at rate of 900 gallons a minute. Thru the barrel at right he mixes nitrogen fertilizer with the irrigation water to boost his corn yields with his sprinkler system.

## Seed Plus Livestock A Good Combination



CONTENTMENT is evident in these steers lying in brome grass pasture this past winter on the F. J. Raleigh farm, Cloud county. The steers are fed a small amount of grain and allowed to run to alfalfa stacks while on winter pasture.

**E**VEN with a certified-seed production program on small grains, F. J. Raleigh, of Cloud county, manages to work in some livestock and a rotation to build up soil fertility.

He produces certified buffalo alfalfa, Madrid sweet clover, Achenbach strain brome grass, Pawnee wheat and Cherokee oats. He has his home place seeded to brome and alfalfa and uses sweet clover and wheat on his rented land,

with oats as a nurse crop for the clover. This program allows Mr. Raleigh to have a deferred-fed steer project. Steers run on brome grass during fall and winter. Some brome is held strictly for pasture while other brome is pastured only part of the time. Some alfalfa is harvested for hay and during winter steers get a small amount of grain while being allowed to run to haystacks in the field.

## Kansas Has Natural Bridge

A natural bridge crosses an intermittent stream in Barber county. One can follow a trail across this bridge and unless the water is high, walk beneath it.

## Wide-Awake Labette County

Has 4-H, Community Center, and . . .

## What a Camp It Is!

**W**ITH everybody working together in a common cause, Labette county now has a 4-H Club camp and community center of which it is mighty proud. The community project is Camp Teel, named for Warren Teel, former Labette county extension agent now in Bgown county. It was Mr. Teel who spearheaded the drive that made the new 4-H camp possible.

And what a camp it is! Located in the city park at Oswego, the camp is in the center of many recreational facilities. There are tennis courts, a ball diamond, a swimming pool and many picnic areas almost at the doorstep.

The camp proper consists of 3 buildings—2 dormitories and a mess hall—and will accommodate 100 persons at a time. The buildings were purchased from the Independence airbase site. The Oswego Chamber of Commerce donated \$500 and Oswego another \$500.

The city put lights, water and gas up to the buildings. Also donated the land and maintains the grounds. The remainder of the \$7,000 in actual money cost was raised thru individual donations and money-raising projects sponsored by 4-H Clubs in the county.

Altho Camp Teel was built primarily as a Labette county 4-H Club camp, it is getting much wider use. 4-H Clubs from several other counties in that area are using the camp. It also is being used by girl scouts, boy scouts, and church groups.

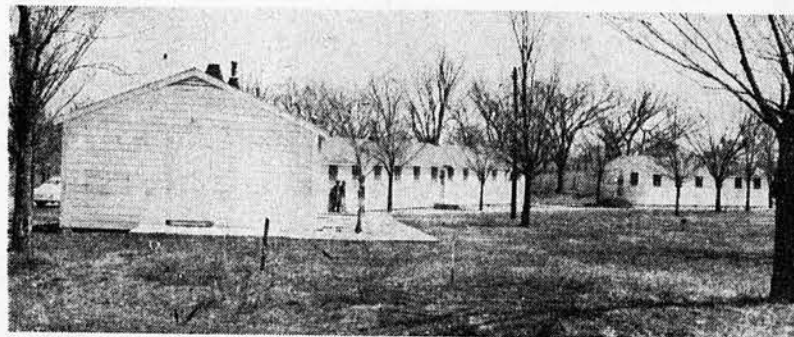
Tom Dodd, of Oswego, who acts as supervisor for the camp, says: "Any

organized group properly supervised by an adult camp director can use the camp upon meeting the requirements and paying the small fee charge. Of course, 4-H Clubs in the county are given preference on dates."

Camping periods for any one group are limited to one week. Such camping groups are charged 20 cents a person per day, with a minimum charge of \$2 for a 24-hour day. Gas, water and lights are provided at this price.

Daytime use of the camp is free to picnic parties, except when buildings are used. Then the minimum charge is \$1.

"Camp Teel is the finest community project I have ever seen," says Russell Klotz, present Labette county agent. "It could be done in other counties."



AN OUTSTANDING community project is Camp Teel, shown here. It is located at Oswego and serves as a community center for 4-H Clubs, boy and girl scouts, church and other organized groups.

## Uses New Ideas In Farrowing House

**A** 10-SOW farrowing house with several new ideas has been built by Mac Wiley, Coffey county farmer. The new farrowing house is 20 by 30 feet with a 6-foot concrete apron running down both sides. A special door leads from each pen to the concrete apron, and this door is hinged at the top so the sow can operate it by pressure against either side. All feeding is done out on the apron to keep pens inside clean as possible while sows and pigs are confined.

The concrete floor in the farrowing house is constructed so the high point comes in the center of the pens and slopes both ways—toward the center aisle and toward the apron. The slope toward the center aisle is 6 inches in 6 feet, while the outward slope (including apron) is 6 inches in 10 feet.

"Sows will always lie with their backs uphill," says Mr. Wiley. "By putting

the pig brooders along the inside rail, next to the aisle, they will always be away from the sow's body. The sow will make her nest next to the center aisle and will dirty the outer half. The slope to the outside thus will carry away the moisture."

Mr. Wiley plans to install a creep for the pigs in the center aisle and will put a light over the creep so pigs can eat at night. Water for the farrowing house is supplied by gravity lines from a pond on ground higher than the house.

His central farrowing house was built, Mr. Wiley says, because "my farm isn't big enough for the sows to farrow on clean ground each year." He will, however, take the sows and their litters out on sweet clover when it is ready to pasture and will use A-type houses on the pasture. Next fall he will plow under the sweet clover and seed the field to rye for winter pasture for the sows.

## What Cows Ate

Milk cows ate about 18.6 million tons of grain, mill feeds and concentrates during 1949, reports the U. S. Department of Agriculture. Cost of these feeds was estimated at 1 1/10 billion dollars.

Quantity of feeds to cows equaled 31.3 pounds for each 100 pounds of milk produced, with a cost of 95 cents compared to \$1.14 in 1948.

## Sponge for Brush

Difficult as it usually is to brush lint from a woolen garment, it's easy with a dry sponge. I keep a dry sponge in the sewing room for handy use.—Mrs. Frank Wallenmeyer.



**Here's the low-cost car  
that has everything you want!**

The Styleline De Luxe 2-Door Sedan

### Looking for Economy?

Chevrolet has it! Chevrolet's extra values, Chevrolet's exclusive, big-car features offer you more for your money right from the start! *AND* Chevrolet is famous for the thrifty operation of its spirited valve-in-head engines. It's famous for standing up to the pounding of the roughest country roads . . . famous for lower maintenance costs, too! Now take a look at the price tag of this beautiful Chevrolet for '50! Yes, it's the lowest priced line of all!

### Looking for Comfort?

Chevrolet has it! Big-Car comfort . . . comfort you'll enjoy throughout the long life of the car. Extra room! Wide "five-foot" seats accommodate three people with room to spare. And the ride? Try Chevrolet and discover what real riding comfort is. S-m-o-o-t-h is the only way to describe it.

### Looking for Style?

Chevrolet has it! All the style and luxury of famous Fisher Bodies, built for Chevrolet . . . available only on Chevrolet in the low-price field. Every detail from the graceful, sweeping lines to the smallest of the interior fittings shows smart, up-to-the-minute styling . . . has practical modern beauty that will last for years.

See your Chevrolet dealer today! Take a drive. See for yourself why Chevrolet is America's favorite car!

CHEVROLET MOTOR DIVISION, General Motors Corporation, DETROIT 2, MICHIGAN

**FIRST...and Finest...at Lowest Cost!**



Examine all of Chevrolet's big-car features. Then examine Chevrolet's prices—and what a pleasant surprise to learn it's the lowest priced line of all! That's why Chevrolet is America's No. 1 favorite year after year . . . why you'll be better off in every way when you make Chevrolet your choice for extra values!



You see where you're going and you like the way you go there in Chevrolet for '50! The wide curved windshield and generous window area give you vision that's tops for sightseeing . . . tops for safety. You're free to relax and enjoy all the uncrowded luxury of those spacious "five-foot" seats . . . that rich and durable two-tone Fisher interior.



Grades and rutted roads, a problem in your area? Chevrolet for '50 offers you two practical, thrifty solutions—the new 105-h.p. Valve-in-Head engine with Powerglide automatic transmission\*, or the standard Valve-in-Head engine with Synchro-Mesh transmission. They're both equal to any road . . . and there's no better way to keep your car upkeep way, way down!

\*Combination of Powerglide automatic transmission with 105-h.p. engine optional on De Luxe models at extra cost.



Chevrolet's roomy trunk takes care of your bundles on vacation or shopping trips . . . conveniently pops open at the twist of a key! Center-Point steering with Unitized Knee-Action ride, airplane-type shock absorbers and wider tread assure you a smoother ride on all roads in this longest, heaviest car in the low-price field.



You get a thrill of pleasure every time you see the sleek good looks of your Chevrolet for '50! It's a thrill you'll enjoy for a good many years, too, for Chevrolet has the kind of styling that lasts. Fourteen smart Styleline and Fleetline models—in a wide variety of sparkling color combinations—are offered for your selection.

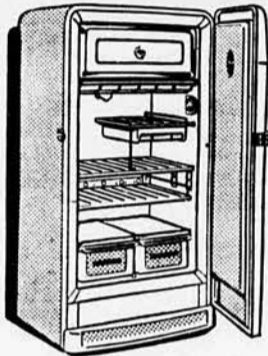
**AMERICA'S BEST SELLER . . . AMERICA'S BEST BUY**



All New 1950  
**FRIGIDAIRE**  
Home  
Appliances

For Your Farm Home!

3 TYPES • 4 SERIES • 10 SIZES • ALL NEW!



Model shown DM-90

**\$309<sup>75</sup>**

Others from \$184.75

**FRIGIDAIRE**  
Refrigerators

Frigidaire has a model and price to suit your exact needs!

- New styling—inside and out
- New adjustable aluminum shelves
- New twin stack-up Hydrators
- New Meat Storage Tray
- New improved Meter-Miser

Look at it outside!

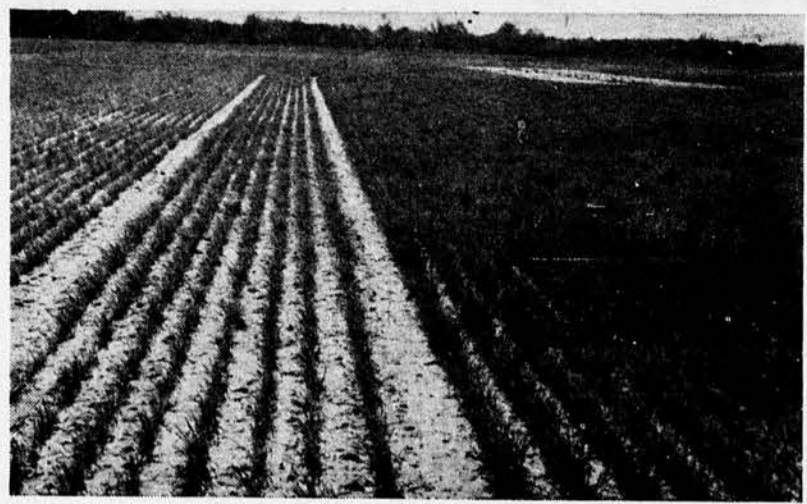
Look at it inside!

You can't match a Frigidaire!

**SEE THEM AT ANY OF THESE DEALERS**

- |   |  |  |   |
|---|--|--|---|
| <p><b>ARILENE</b><br/>Shockey &amp; Landes</p> <p><b>ALMA</b><br/>Hasenbank &amp; LaMar</p> <p><b>ALTAMONT</b><br/>Holmes Hdw. Co.</p> <p><b>ANTHONY</b><br/>Wood Music Co.</p> <p><b>ARGONIA</b><br/>Horton Furniture Co.</p> <p><b>ARKANSAS CITY</b><br/>Wright-Burton Hdw.</p> <p><b>ARLINGTON</b><br/>Fay's Sundries &amp; Appl.</p> <p><b>ARMA</b><br/>Bosnio Hdw. &amp; Appl.</p> <p><b>ASSARIA</b><br/>Johnson's Plbg. &amp; Appl.</p> <p><b>ATTICA</b><br/>K. R. Anthony Furn.</p> <p><b>AUGUSTA</b><br/>O'Brien Furn. Co.</p> <p><b>AXTELL</b><br/>Roth's Lock. &amp; Ap. Co.</p> <p><b>BARNES</b><br/>Barnes Ap. &amp; Plbg. Co.</p> <p><b>BAXTER SPRINGS</b><br/>Milo Chew Drug Co.</p> <p><b>BELLE PLAINE</b><br/>Foster Refrig. &amp; Appl.</p> <p><b>BELLEVILLE</b><br/>Fitch &amp; Barth, Inc.</p> <p><b>BELLOI</b><br/>Hiserote &amp; Weir Appl.</p> <p><b>BENNINGTON</b><br/>Powell Service</p> <p><b>BLUE RAPIDS</b><br/>Brake's Furn. Store</p> <p><b>BUCKLIN</b><br/>Day Hardware Co.</p> <p><b>BULLER</b><br/>R. Elliott &amp; Gard</p> <p><b>BURDEN</b><br/>Lewis Chevrolet Co.</p> <p><b>BURNS</b><br/>Lyons Supply Co.</p> <p><b>CALDWELL</b><br/>Terwilliger Hardware</p> <p><b>CANEY</b><br/>Pendleton Chev. Co.</p> <p><b>CAWKER CITY</b><br/>Riley-Rhoades Ap. Co.</p> <p><b>CEDAR VALE</b><br/>Williams Motor Co.</p> <p><b>CHANUTE</b><br/>Nat. &amp; Bolze Hdw.</p> <p><b>CHAPMAN</b><br/>Sanborn Lumber Co.</p> <p><b>CHENEY</b><br/>Cheney Skelgas Service, Inc.</p> <p><b>CHERRYVALE</b><br/>Clark's Maytag Co.</p> <p><b>CHETOPA</b><br/>Blankenship Hardware</p> <p><b>CIMARRON</b><br/>Osborn Radio &amp; Elec.</p> <p><b>CLAY CENTER</b><br/>Marshall's, Inc.</p> <p><b>CLEARWATER</b><br/>Hugh R. Wilk Hdw.</p> <p><b>CLIFTON</b><br/>Beattie-Esslinger</p> <p><b>CLYDE</b><br/>A. Seifert Jewelry</p> <p><b>COFFEYVILLE</b><br/>Southwestern Sales Co.</p> <p><b>COLBY</b><br/>Mackay Appliance Co.</p> <p><b>COLDWATER</b><br/>Rural Gas &amp; Elec. Co., Inc.</p> <p><b>COLUMBUS</b><br/>Bennett Appliance Co.</p> <p><b>CONCORDIA</b><br/>Culbertson Elec. Co.</p> <p><b>CONWAY SPRINGS</b><br/>Lewis Fibr. &amp; Appl.</p> <p><b>COTTONWOOD FALLS</b><br/>Hamm Electric Co.</p> <p><b>COUNCIL GROVE</b><br/>Burnsey &amp; White</p> | <p><b>DIGHTON</b><br/>Mull Electric Service</p> <p><b>DODGE CITY</b><br/>Haitline Appliance Co.</p> <p><b>DOUGLASS</b><br/>The Electric Store</p> <p><b>DYANS</b><br/>Cunningham Oil Co.</p> <p><b>EL DORADO</b><br/>Home Appliances, Inc.</p> <p><b>ELKHART</b><br/>Ellis Motor Service</p> <p><b>ELLINWOOD</b><br/>Chaffee Electric</p> <p><b>ELLIS</b><br/>O'Loughlin Motor Co.</p> <p><b>ELLSWORTH</b><br/>Holt &amp; Goedde Furn. Co.</p> <p><b>EMORIA</b><br/>Liker-Stephens Fur. Co.</p> <p><b>ERIE</b><br/>Rogers' Hwd. &amp; Furn.</p> <p><b>ESKRIDGE</b><br/>Willard Sales &amp; Serv.</p> <p><b>EUREKA</b><br/>Burton's Furn. &amp; Appl. Co.</p> <p><b>FALL RIVER</b><br/>Fall River Impl. Co.</p> <p><b>FLORENCE</b><br/>W &amp; R Appliance Co.</p> <p><b>FORT SCOTT</b><br/>Filizola Off. Equip. Co.</p> <p><b>FRANKFORD</b><br/>Lauer Electric Shop</p> <p><b>FREDONIA</b><br/>Hollis Hardware Co.</p> <p><b>GARDEN CITY</b><br/>Mayo's</p> <p><b>GRAND</b><br/>Crain Gas &amp; Elec. Co.</p> <p><b>GLASCO</b><br/>R. W. Cramer Hdw.</p> <p><b>GOODLAND</b><br/>D &amp; G Electric Co.</p> <p><b>GREAT BEND</b><br/>Chaffee Electric</p> <p><b>GREEN LEAF</b><br/>Hogan &amp; Sons</p> <p><b>GREENSBURG</b><br/>Culp Home &amp; Auto</p> <p><b>HALSTEAD</b><br/>Mantele's Dept. St., Inc.</p> <p><b>HANOVER</b><br/>Ever &amp; Sons</p> <p><b>HARDY</b><br/>Harpert</p> <p><b>HARPER</b><br/>Jess Hamilton</p> <p><b>HAYS</b><br/>The Merchandise Mart</p> <p><b>HERINGTON</b><br/>Fred Lee &amp; Sons</p> <p><b>HERNDON</b><br/>J. G. Huffles &amp; Son</p> <p><b>HILL CITY</b><br/>Quenzer Appl. &amp; Hdw.</p> <p><b>HILLSBORO</b><br/>John Heibert</p> <p><b>HINSHAW</b><br/>Gelman Appl. Co.</p> <p><b>HOLYROOD</b><br/>Westmacott Hdw. Co.</p> <p><b>HOPE</b><br/>Wuthnow Furn. Co.</p> <p><b>HOWARD</b><br/>Virgil Munsinger</p> <p><b>JEWELL</b><br/>Hoxie (Grinnell)</p> <p><b>H. J. Rietcheck Appl.</b></p> <p><b>HUGOTON</b><br/>Reed's</p> <p><b>HUTCHINSON</b><br/>Gaber Furniture Co.</p> <p><b>INDEPENDENCE</b><br/>Sell-Orr, Inc.</p> <p><b>IOLA</b><br/>Schell's Appl. Store</p> <p><b>JETMORE</b><br/>Jettmore Hardware</p> <p><b>JEWELL</b><br/>Jewell Lumber Co.</p> <p><b>JOHNSON</b><br/>Johnson Service Co.</p> | <p><b>JUNCTION CITY</b><br/>Waters Appl. Store</p> <p><b>KENSINGTON</b><br/>Simmons-Ollitt</p> <p><b>KINGMAN</b><br/>Kingman Radio Shop</p> <p><b>KINSEY</b><br/>Maytag Appliance Co.</p> <p><b>KIOWA</b><br/>Fisher-Wood Hdw.</p> <p><b>LACROSSE</b><br/>Pittman &amp; Pittman</p> <p><b>LAKIN</b><br/>Hart &amp; Co.</p> <p><b>LARNED</b><br/>A. A. Doerr Merc. Co.</p> <p><b>LEBANON</b><br/>Lebanon Electric</p> <p><b>LEHIGH</b><br/>Burkholder Lbr. Co.</p> <p><b>LEON</b><br/>Losh Motor Co.</p> <p><b>LEOTA</b><br/>Western Hdw. &amp; Sup.</p> <p><b>LIBERAL</b><br/>Hettie Appl.</p> <p><b>LINCOLN</b><br/>B. G. Hall</p> <p><b>LINCOLNVILLE</b><br/>Burkholder Lbr. Co.</p> <p><b>LINDSBORG</b><br/>Billings Refrigeration &amp; Elec. Appl.</p> <p><b>LITTLE RIVER</b><br/>Hodgson Impl. &amp; Hdw.</p> <p><b>LYONS</b><br/>Schneider's Furn. Co.</p> <p><b>MADISON</b><br/>Schottler's, Inc.</p> <p><b>MANHATTAN</b><br/>Kaup Furniture Co.</p> <p><b>MANKATO</b><br/>Hornor Motor Co.</p> <p><b>MARION</b><br/>W. J. Haas Furn. &amp; Ap.</p> <p><b>MARYSVILLE</b><br/>Fred Burrell</p> <p><b>MCPHERSON</b><br/>Green Furniture Co.</p> <p><b>MEADE</b><br/>C. F. Worman Elec.</p> <p><b>MEDICINE LODGE</b><br/>Dickey Appl. Co.</p> <p><b>MILTONVALE</b><br/>PHELPS Furn. Store</p> <p><b>MINNEAPOLIS</b><br/>Hornor Hardware</p> <p><b>MOLINE</b><br/>Boyer Tire &amp; Appl. Co.</p> <p><b>MORGANVILLE</b><br/>Will F. Taddiken</p> <p><b>MOUNDRIE</b><br/>Krebbel Hdw. &amp; Impl. Co., Inc.</p> <p><b>MOUNT HOPE</b><br/>Johnmeyer's</p> <p><b>MULVANE</b><br/>The Electric Store</p> <p><b>NASHVILLE</b><br/>Stewart Motor Co.</p> <p><b>NATOMIA</b><br/>Fohlman's Home Furn.</p> <p><b>NEODESHA</b><br/>Kimball Electric Shop</p> <p><b>NESS CITY</b><br/>Schroyer's, Inc.</p> <p><b>NEWTON</b><br/>Jenkins Appl.</p> <p><b>NORTON</b><br/>Horney's Appl.</p> <p><b>NORWICH</b><br/>H. S. Eshnaur &amp; Sons</p> <p><b>OAKLEY</b><br/>C. D. Clark &amp; Sons, Inc.</p> <p><b>OBERLIN</b><br/>Anderson &amp; Son Hdw. &amp; Impl.</p> <p><b>ONAGA</b><br/>Tessendorf Furn. Co.</p> <p><b>OSBORNE</b><br/>Quenzer Appl. Co.</p> <p><b>OSWEGO</b><br/>Williamson Stores, Inc.</p> | <p><b>OXFORD</b><br/>Abldgnard Hdw. Co.</p> <p><b>PARSONS</b><br/>Ellis Radio &amp; Appl. Co.</p> <p><b>PARTRIDGE</b><br/>Kearns Radio &amp; Elec.</p> <p><b>PEABODY</b><br/>Baker Furn. Store</p> <p><b>PHILLIPSBURG</b><br/>Newell's Appl. Co.</p> <p><b>PITTSBURG</b><br/>Rockey's Elec. Serv.</p> <p><b>PLAINVILLE</b><br/>Moshier Bros.</p> <p><b>PRAIRIE VIEW</b><br/>Prinsen Bros. Hdw.</p> <p><b>PRATT</b><br/>Link Electric</p> <p><b>PRETTY PRAIRIE</b><br/>General Appliance Co.</p> <p><b>QUINTER</b><br/>Quinter Appl. Store</p> <p><b>RILEY</b><br/>Meyer Mercantile</p> <p><b>RUSSELL</b><br/>Deines Bros.</p> <p><b>ST. FRANCIS</b><br/>Bryans, Inc.</p> <p><b>ST. JOHN</b><br/>Peacock &amp; Solce</p> <p><b>ST. MARYS</b><br/>Tessendorf &amp; Youngkamp</p> <p><b>SALINA</b><br/>Goodhousekeepers Appl. Inc.</p> <p><b>SARANTA</b><br/>Decker's</p> <p><b>SCANDIA</b><br/>Sanborn Lumber Co.</p> <p><b>SCOTT CITY</b><br/>Bryans, Inc.</p> <p><b>SHARON SPRINGS</b><br/>C. E. Koons &amp; Son Hdw.</p> <p><b>SMITH CENTER</b><br/>Simmons-Ollitt</p> <p><b>SPEARVILLE</b><br/>Hesskamp Chev. Co.</p> <p><b>STAFFORD</b><br/>Peacock &amp; Solce</p> <p><b>STERLING</b><br/>Haney's Appl. Center</p> <p><b>STOCKTON</b><br/>Quenzer Appl. Co.</p> <p><b>SYDNEY</b><br/>Stewart Furniture</p> <p><b>TIMKEN</b><br/>Timken Lumber Co.</p> <p><b>TRIBUNE</b><br/>Western Hdw. &amp; Sup.</p> <p><b>TURON</b><br/>Turon Electrical Sup.</p> <p><b>ULYSSES</b><br/>Durham Electric</p> <p><b>VALLEY CENTER</b><br/>Central Supply</p> <p><b>WAKEENEY</b><br/>Clark Supply Co.</p> <p><b>WARFIELD</b><br/>Sanborn Lbr. Co., Inc.</p> <p><b>WAMEGO</b><br/>J. E. Stewart &amp; Sons</p> <p><b>WASHINGTON</b><br/>Anderson Hardware</p> <p><b>WATERVILLE</b><br/>Wentz Hdw. &amp; Furn.</p> <p><b>WELLS</b><br/>Stewart Furniture</p> <p><b>WELLINGTON</b><br/>Nichols Electric Co.</p> <p><b>WICHITA</b><br/>The Appl. Center, Inc. 188 North Broadway 1014 West Douglas 121 East 21st</p> <p><b>WINDFIELD</b><br/>Geo. Innes Co.</p> <p><b>WINTFIELD</b><br/>Vowel Furniture Co.</p> <p><b>WILSON</b><br/>Whitcomb Appl. Co.</p> <p><b>WINFIELD</b><br/>Weber Hardware</p> <p><b>WYFIELD</b><br/>Winfield Electric Co.</p> <p><b>YATES CENTER</b><br/>J. C. Schnell</p> |
|---|--|--|---|

**What Makes the Difference?**



THIS view of 2 wheat plots at the Columbus branch experiment station shows value of soil treatment with lime and phosphate where a legume is used in the rotation. Both plots have had alfalfa in the rotation for 26 years, but the plot on the right also got 6 tons of lime an acre during the 26 years, plus 200 pounds of 20 per cent phosphate an acre with each seeding of alfalfa. The soil in the plot at the left had no lime or phosphate treatment. The picture was taken in mid-April, 1950.

**Fertility Test Plots Can Bring Strange Results**

DO FERTILIZER test-plot results interest you? They can be quite confusing. At times wholly unexpected yields develop. That happened last year on a wheat fertilizer test plot conducted by O. K. Cornett, Eureka.

A 3-acre area was divided into 20 plots, which included 2 no-treatment plots. Various amounts and grades of fertilizers were applied on the remaining strips. This field had been in sweet clover. After a seed crop of clover had been harvested, the soil was plowed in August for the succeeding wheat.

Strangely, of all the combinations of nitrate, phosphate and potash applied, a 150-pound application of 0-14-7 produced the highest yield, 25.5 bushels an acre. Second-highest yield was 24.9 bushels an acre from a 100-pound application of the same fertilizer. But when potash alone was applied yield dropped down around the 12-bushel mark.

One of the no-treatment plots made 18.6 bushels, the other 18.3 bushels. Third-place yield was 24 bushels an acre produced by an application of 65 pounds of 45 per cent superphosphate. But when the application was increased to 100 pounds of the same phosphate the yield dropped slightly to 23.4 bushels.

A similar application of phosphate, 150 pounds of 20 per cent, produced a 23.4-bushel yield. That was 30 pounds of available phosphoric acid as compared with 29.25 pounds of phosphoric acid in the 65-pound application of 45 per cent material. Again, when the application was reduced to 100 pounds of 20 per cent, or 20 pounds phosphoric acid, the yield dropped to 21.9 bushels.

Now, with 100 pounds of ammonium nitrate along with 100 pounds of 20 per cent superphosphate, the yield was 23 bushels. But when 100 pounds of nitrate alone was added, the yield dropped to 10.5 bushels. Fifty pounds of nitrate alone produced an 11.4-bushel yield.

Fertilizer carrying both nitrate and phosphate held up quite well. An application of 100 pounds of 4-16-0 produced 21.4 bushels while 150 pounds of the same mixture produced 22.8 bushels.

Two other complete fertilizers also reacted favorably. One hundred pounds of 2-12-6 produced 22.3 bushels while 150 pounds produced 23.1 bushels. And 100 pounds of 4-12-4 produced 21.8 bushels against a 22.8-bushel yield for 150 pounds of 4-12-4.

At the bottom of the test, along with straight nitrate in this instance, were the 2 tests of straight potash. A 65-pound application of muriate produced 12.6 bushels while 100 pounds produced an even 12 bushels. A 300-pound application of calcite also was down low with a 12-bushel yield.

This test was unofficial and was conducted during a wheat year when almost everything happened in the way of yields, too much moisture and accompanying diseases. But it does seem to point a finger at the necessity of plant food balance in the soil to produce highest grain yields. In other words, maximum benefits from any one element can be obtained only if adequate supplies of others are present.

Mr. Cornett also noticed considerable variations in the test weight of the harvested wheat. But test weight was in the highest-producing plots. These weighed 57 pounds. Most of the other plots grew wheat weighing 55½ to 56½ pounds, altho 53 pounds a bushel was recorded for the check plot, calcite, and straight potash plots. A low of 51 pounds to the bushel was noticed in the straight nitrate plots.

Soil testing labs will help find our true fertilizer needs.

**Paint Window Shades**

Paint improves a multitude of things including old window shades that have become soiled. Using paint with a water base, paint them the same shade as the walls of the room, if you can match the color. If not, white is most attractive and makes a nice background for freshly laundered curtains.—A. B. C.

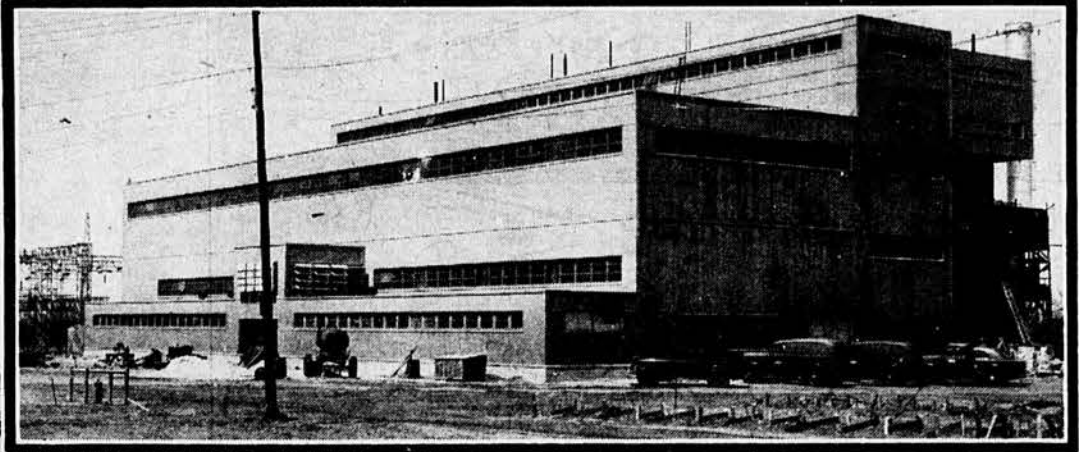
**Thanks for Dam Story**

Dear Editor: Your story, "How Many Dams For Kansas?" on page 6, of the April 15, 1950, issue of *Kansas Farmer*, and the figures showing costs and how much water dams would hold, plus the map showing where these dams are to be located, tells something we all should know. Most of us know about one or two dams. But this is the first time any paper ever showed us the whole thing at one time... It's an awful cost if they won't work.—D. J. C., Shawnee county.

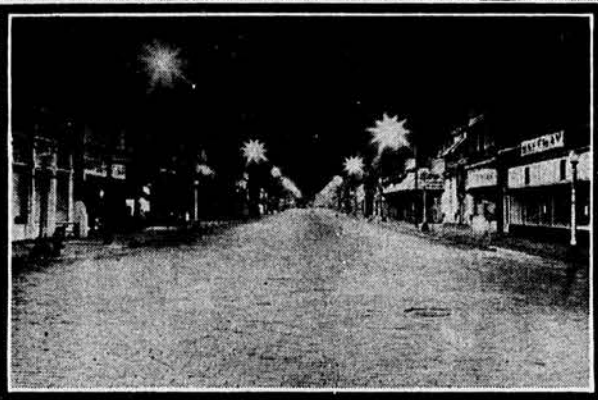
Dear Editor: A great many of us surprised to learn how many dams we may have.—C. A., Gray county.

Dear Editor: Thanks to *Kansas Farmer* for dam story. Why not try soil conservation and smaller dams someplace? Or doesn't Uncle Sam's right hand know what his left hand is doing?—R. M., Lyon county.

# INVESTING MILLIONS FOR THE FUTURE OF KANSAS!

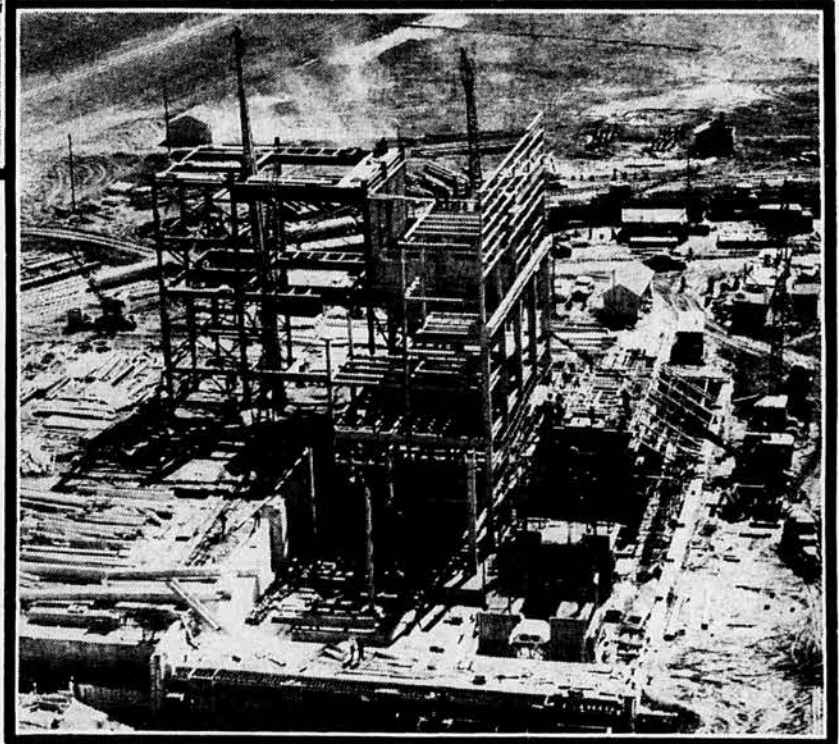


Under construction, by THE KANSAS POWER AND LIGHT COMPANY is new 40,000 kw generating plant on the edge of Hutchinson at cost of \$6,500,000; in operation soon; this company recently increased capacity of Tecumseh plant by 30,000 kw.



(Above) To make shopping in rural areas more attractive, Ft. Scott steps ahead with new downtown lighting system illustrated above; installed by EASTERN KANSAS UTILITIES, INC., which serves many communities in Southeastern Kansas.

(Upper left) Placed in service last fall by the KANSAS GAS AND ELECTRIC COMPANY was a third turbo-generator in its Ripley station in Wichita; increased the plant's capacity to 90,000 kw or 120,000 horsepower.



(Right) Amid the rat-at-tat of riveting hammers, 300 men are busy erecting the KANSAS CITY POWER & LIGHT COMPANY'S new Hawthorn station near Kansas City; this new 132,000 kw steam-electric generating plant, ready for operation early in 1951, will furnish ample electricity in the Kansas City area.



Above is the Dodge City plant in which the WESTERN LIGHT & TELEPHONE COMPANY installed a new 6,000 kw turbine which doubled the capacity of the station. The company has made additions to several other western Kansas plants almost doubling its capacity since the war.



**Y**OUR Electric Companies of Kansas are spending, through their current expansion and improvement programs, millions upon millions for the future of Kansas. Throughout the State, they are building additional electric generating facilities, transmission lines, highlines and other costly improvements. And that means more light . . . and more power . . . for you!

At Hutchinson . . . at Wichita . . . at Topeka . . . at Kansas City . . . and at Dodge City, Liberal, Medicine Lodge, Great Bend, Plainville, Phillipsburg and Concordia, these companies have just built or are building or enlarging stations to satisfy the power requirements brought on by the growth of Kansas and in anticipation of greater demands for service in the near future.

But they are spending not only dollars on the future of Kansas. The work of many minds and many skilled hands are going into this job of expanding to meet the growing need for economical and dependable electric power.

Yes, the Electric Companies of Kansas have faith in the future of our State and are happy to be growing with it.

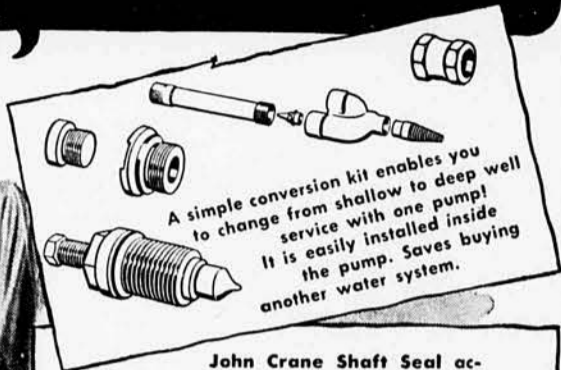
## ELECTRICITY— Does the Job Better!

Central Kansas Power Company  
Kansas City Power & Light Company  
The Kansas Power and Light Company

Eastern Kansas Utilities, Inc.  
Kansas Gas and Electric Company  
Western Light & Telephone Company

This Message from the Pioneers of Rural Electrification

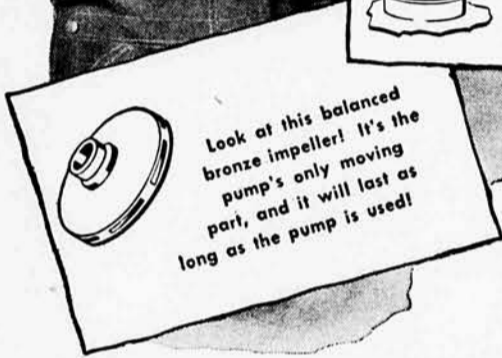
**This is the economy convertible pump  
FAIRBANKS-MORSE  
built for farmers!**



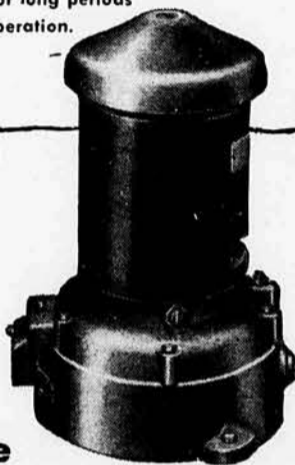
A simple conversion kit enables you to change from shallow to deep well service with one pump! It is easily installed inside the pump. Saves buying another water system.



John Crane Shaft Seal accomplishes perfect sealing. Saves power. Quality construction throughout. Needs no attention for long periods of operation.



Look at this balanced bronze impeller! It's the pump's only moving part, and it will last as long as the pump is used!



**More features that assure economy, dependability, and long service!**

- Oversize base for greater water capacity.
- Motor shafts, regardless of hp. capacity, are the same size, permitting interchange of motors in emergencies.
- Available in 1/4, 1/2, 3/4 and 1 hp. models.
- Equipped with self-adjusting rotary water seal.
- Provided with new automatic pressure control valve.
- May be located over or away from well.
- Completely assembled, ready to use.

**SEE WHY THE BEST COSTS LESS!**

Before you buy any water system, see the new Fairbanks-Morse convertible ejector model on display now in your Fairbanks-Morse dealers' stores. You'll say it is the most practical water system you've ever seen . . . the most economical to buy!

**Buy from your friend and neighbor**—your local Fairbanks-Morse dealer. He pays taxes locally. He supports many community projects that interest you. He banks locally, and his money is poured back into projects that make jobs for others locally. He backs his products just as Fairbanks-Morse supports him. If you don't know who in your vicinity sells Fairbanks-Morse products, we'll be glad to tell you. Write Fairbanks, Morse & Co., Chicago 5, Ill.



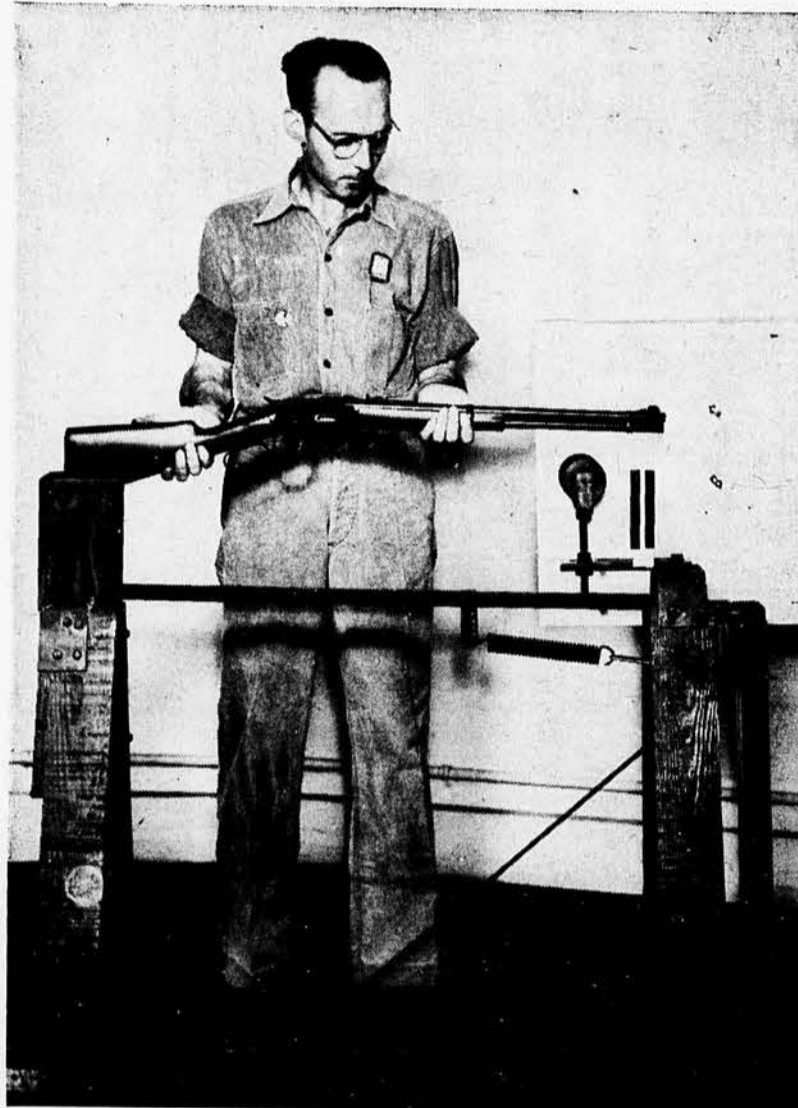
**FAIRBANKS-MORSE,**

*a name worth remembering*

DIESEL LOCOMOTIVES AND ENGINES • ELECTRICAL MACHINERY • PUMPS • SCALES  
HOME WATER SERVICE AND HEATING EQUIPMENT • RAIL CARS • FARM MACHINERY

If you are a hunter, maybe you can answer this question

**Where Is the Bullet  
When Your Gun Kicks?**



**WHEN DOES IT KICK?**—Here is the over-all setup used by ballisticians to prove that a gun doesn't "kick" until after the bullet has left the muzzle. The butt of the carbine is being placed in a recoil rest and the muzzle will rest on the block of hard rubber. The trigger will be pulled by a wire lanyard.

**N**EXT time you take careful aim with the old trusty rifle and miss your target by a country mile, will you blame your poor shot on your eyes, your nerves, or the pesky kick of the gun?

If you plan on using the recoil or kick as an alibi you had better not because science is prepared to catch you up on it. Hunters always have wondered, perhaps, whether the recoil of a gun occurs while the bullet still is in the barrel or after the bullet has left the barrel.

No wonder it is difficult to tell for sure, because it takes only about 16 thousandths of a second for a gun to reach its maximum recoil. That's quicker than human brains or muscles can react. Since the "kick" of a gun happens so quickly it might well seem to have a definite bearing on your aim.

But science never likes to guess about such things. Somebody was bound to run an experiment to settle the argu-

ment for all time. The experiment was conducted by the Western Cartridge Company division of Olin Industries, Inc., at East Alton, Ill.

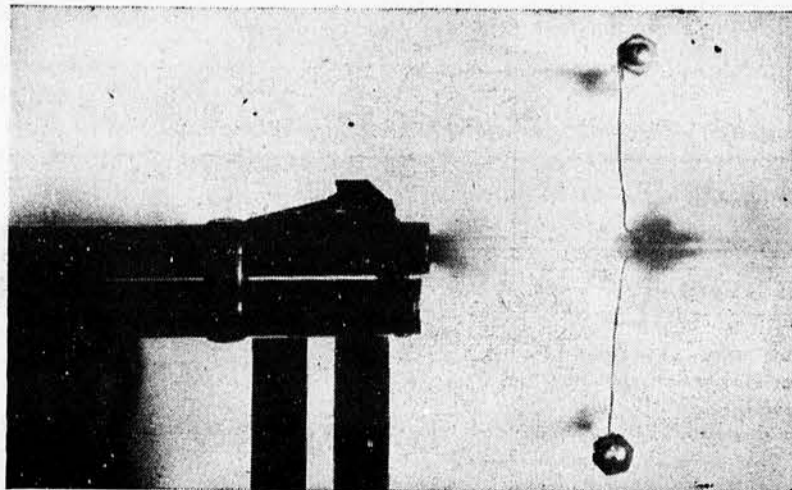
To make the experiment a deer gun, an ordinary camera, and a special photographic light that permits making pictures in three-millionths of a second were used.

Ballisticians mounted a Model 94 lever action deer gun in a recoil rest which simulated as nearly as possible the conditions under which a rifle is fired from a human shoulder. They loaded the rifle with a 30-30 cartridge which has a muzzle velocity of 2,200 feet a second.

The stock of the rifle rested in a special steel pocket lined with sponge rubber, and the muzzle was supported by its own weight on a hard rubber cylinder and a block of wood, which was used to indicate recoil.

A thin copper wire then was stretched

*(Continued on Page 17)*



**BULLET BREAKS WIRE**—This picture, taken as the bullet breaks a wire 2 1/2 inches ahead of the muzzle, shows the muzzle still resting firmly on the rubber block.

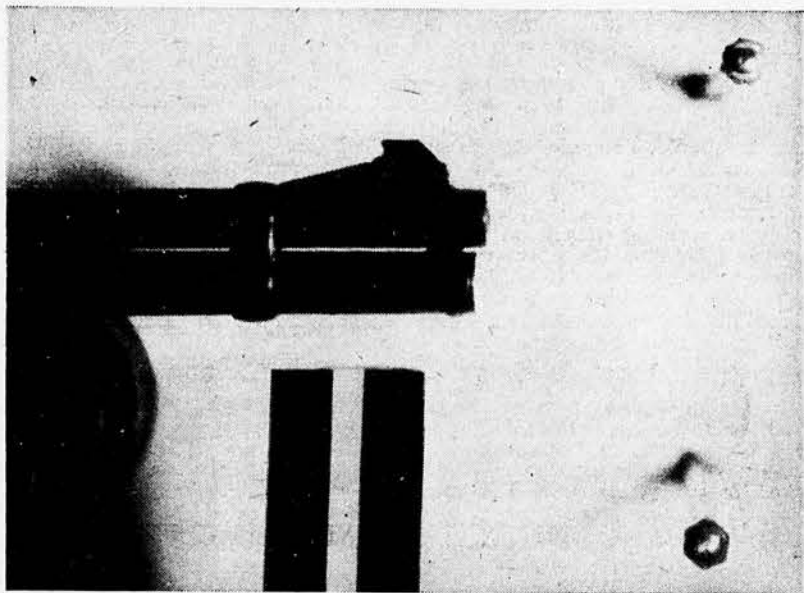


2½ inches from the gun muzzle, directly across the path to be taken by the bullet. This wire was connected electrically with the photolight which was to illuminate the area of the gun muzzle at the precise part of an instant the bullet severed the wire.

The picture, shown on the preceding page, indicates clearly that the gun had not begun its "kick" when the bullet severed the wire 2½ inches beyond the muzzle.

Then the gun was reloaded and another picture made when the bullet snipped a second wire 30 feet distant from the rifle. This picture shows that visible recoil had raised the muzzle about ¼ inch above the wood block.

What probably happens when you fire a gun is that you flinch in anticipation of the recoil, and this subconscious finching causes you to miss the target. Or, perhaps, you just are not shooting where you are looking.



HERE IS THE KICK—In this picture the barrel had recoiled upward ¼ inch by the time the bullet had cut a second wire 30 feet ahead of the muzzle.

### Great Show At Colby

THE 18th annual Northwest Tractor and Implement Show, held at Colby, May 2, 3, and 4, was its usual slambang success. With more than 3 million dollars in farm machinery on display, a number of airplanes, and a few farm buildings and accessories just to round out the show, 6 blocks of the town's main thoroughfare were utilized for the gigantic display.

Altho bad weather hampered flying and otherwise reduced the crowd, officials admitted this was the greatest ever. Visitors from the Colby trade territory numbered an estimated 30,000 plus, little short of the 50,000 goal

that had been set for the 3-day show.

A notable visitor was Bill Piper, the man who developed the Piper Cub airplane back in 1928. Piper was on hand for the Flying Farmer breakfast scheduled for May 3 which the weather caused to be postponed.

Gov. Frank Carlson flew to the show for the Thursday events, rode in the parade, and praised Northwest Kansas on its progressiveness. This area always does things in a big way.

The show is sponsored by the Colby Tractor Club. President this year is H. L. Barker. Clyde Brown is secretary.

### Beef Production Champions

WINNERS in various divisions of the 1949 Kansas Beef Production contest received plaques or recognition certificates Saturday, May 6, as a feature of the Feeders' Day program at Kansas State College, Manhattan. More than 4,000 persons attended the event.

A special recognition trophy went to C. E. Piester & Son, of Croft, by the Kansas Hereford Breeders Association for having the outstanding record in the feeder calf division of the contest. Mr. Piester weaned 178 calves from 189 cows. At 233 days old the calves averaged 487 pounds. In addition, Mr. Piester practiced approved methods in handling his cow herd the year around.

Warren Rhodes, Wabaunsee county agent, received a gold watch from the Kansas City, Mo., Chamber of Commerce for making the most progress in beef production during 1949, with all phases of the extension beef production program taken into consideration. Honorable mention was given to John F. Smerchek, Kiowa county agent, and to Lee J. Brewer, Riley county.

Plaque winners in the beef production contest, by divisions, are as follows:

Division 1, Feeder Calves—Briggs

& Bailey, Kiowa, Herefords; Ralph Deewall, Comanche, Herefords; H. P. Parkin, Kiowa, Herefords; C. E. Piester & Son, Kiowa, Herefords.

Division 2, Creep-Fed Calves—T. A. Campbell & Son, Mitchell, Herefords; Harvey Moore, Cowley, Angus.

Division 3, Deferred-Fed Yearlings—L. E. Crawford, Dickinson; Hoover Brothers, Dickinson; Walker Brothers, McPherson; George & Ralph Samp, Crawford.

Recognition certificate winners, by divisions, are as follows:

Feeder Calves—C. E. Bonnell, Cowley; Eldon Clark, Wabaunsee; Weldon Douglas, Kiowa; Millard J. Horne, Wabaunsee; Charles Palmquist, McPherson; James W. Pruitt, Mitchell; Warner Ranch, Ford; Wear & Pruitt, Mitchell.

Deferred-Fed Yearlings—Chester I. Bare, Clark; Walter Bitterlin & Son, Geary; Norman Gehrt, Wabaunsee; Frank Hund & Son, Paxico; Cecil A. Jones, Washington; M. N. Rankin, Clark; John Shaw & Elmer Olandt, Washington; Fred Dudte, Harvey; Albert Claassen, Butler; Willard Erickson, McPherson; John Frey, Riley; Arthur & LeRoy Frey, Rice.

### Swine Winners

E. R. Allen, Soldier, and Arnold M. Rose, Cawker City, won their respective divisions in the 1949 Kansas Swine Production Contest, it was announced May 6 at Livestock Feeders' Day program, Kansas State College.

Mr. Allen won the division 1 contest—3 to 7 sows—with Leon Wealand, Glasco, second, and Lyle Campbell, Burton, third. Mr. Rose won division 2—8 or more sows—with John Vogel, Lawrence, second.

It was the third straight year Mr. Rose had been a cash award winner in the swine production contest.

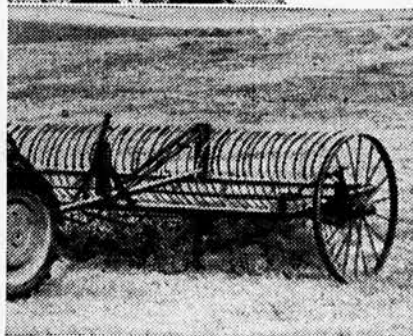
### Good Accident

Paul Wishall, Montgomery county farmer, started pasturing sweet clover by accident when he turned his cows into a stubble field without noticing the clover was up. Now he pastures sweet clover every fall and spring.

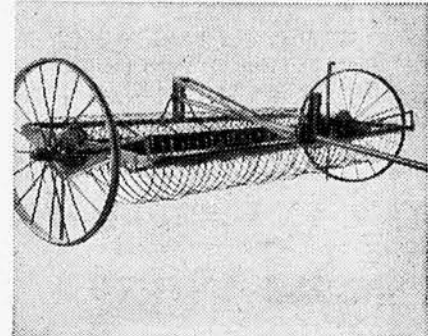
# "FARMHAND cuts haying costs 3 WAYS with these hay-handling machines"



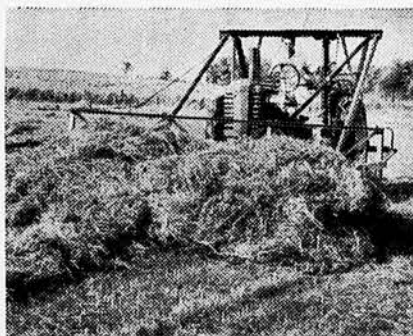
YOU'LL SPEED through the job in almost half the time . . . save high labor costs, too . . . with your FARMHAND Hydraulic Loader and Dump Rake.



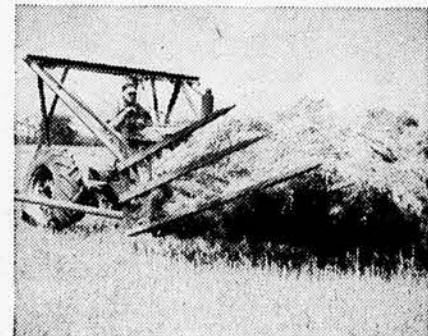
**WINDROW AT TWICE THE SPEED!** This super-quick FARMHAND Dump Rake is actually two times faster than ordinary dump rakes. Low in cost, completely mechanical. Simple light-tension rope trip mechanism and steel clutch "roll" the rake a half-turn at a time, clearing full tines and bringing new set of tines into position without leaving unraked hay.



**EASY TO TRANSPORT, EASY TO USE.** Haul it with tractor, pick-up or Jeep. Rake locks in transport position (see picture) for moving. Spring tension shock absorber on pole, also adjustable height to fit any drawbar. No hydraulic connections to make. Teeth spaced 3¾ inches apart for clean raking of swaths laid down by two 7 foot mowers in tandem.



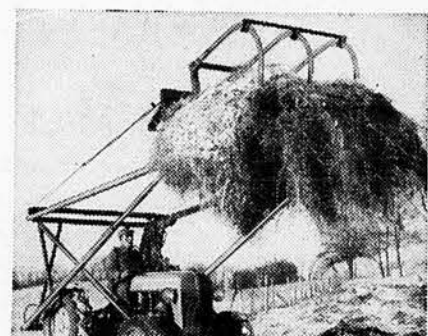
**BUCK WINDROWS UP TO 15 M.P.H.** Now move your FARMHAND Loader into action with its high capacity Hay Basket. Riding close to ground this basket picks up a half ton of hay at a load, clears 15 to 20 acres a day. No more back-breaking labor in the broiling sun . . . no more forking hay. In fact . . .



**NO MORE LIFTING.** You'll transport a half-ton load at a time right to the stack in this sturdy Hay Basket . . . and at top working speed! Your FARMHAND Loader gives you the maneuverability and accuracy of a man with a fork, thanks to "Wrist-Action" and constant levelling of load at all times. What a work saver!



**BUILD 27-FOOT STACKS!** Your Heavy-Duty FARMHAND Loader with Hydraulic Push-Off on Hay Basket enables you to build stacks up to 27 feet high . . . solid packed for minimum weathering and spoilage. Lifts half-ton of hay in 30 seconds . . . will buck and stack 5 to 6 tons per hour. And how you'll need your FARMHAND for breaking frozen stacks next winter!



**ANOTHER WINNER** in the FARMHAND Line is this "Special" Loader for Ford, John Deere MT, H M, Oliver "60," Allis Chalmers "C," Case VAC, Ferguson, Farmall A, B, C. Compact, low-clearance machine. Attachments available—hay basket with push-off, manure fork, detachable scoop, grapple fork. On demonstration at all Farmhand dealers!

## Farmhand

Reg. U. S. Pat. Off.



### HYDRAULIC LOADERS DUMP RAKE

MAIL THIS COUPON FOR FULL INFORMATION

Farmhand Division, Superior Separator Company, Hopkins, Minnesota

Send me free fact sheets on the FARMHAND speed method of haying, with information on:

Heavy-Duty Loader     "Special" Loader     Dump Rake

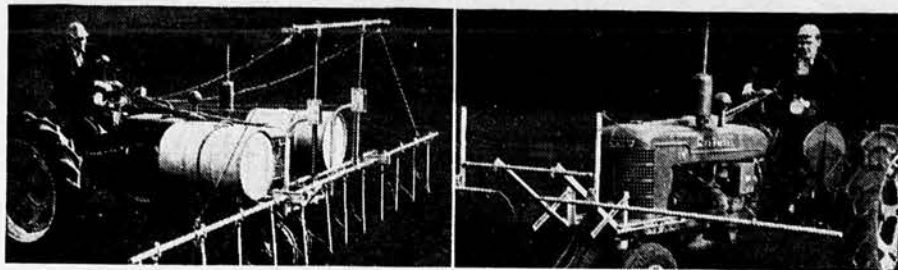
"Power-Box"     "90" Wagon

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**FOR EVERY FARM, A YELLOW DEVIL SPRAYER  
QUALITY-BUILT TO LAST FOR YEARS**

"In 3 years spraying with my Yellow Devil, I've spent less than 50 cents on maintenance." That's the kind of report we get from farmers who have owned Yellow Devils several seasons.

Take a careful look at any Yellow Devil. See the sound engineering, the fine materials, the rugged construction.

See how it's **quality-built** to stand the strain of farm spraying for years.

There's a Yellow Devil for every size and type of farm. Ask your dealer to show you these **quality-built** sprayers.

Write for free booklet today.

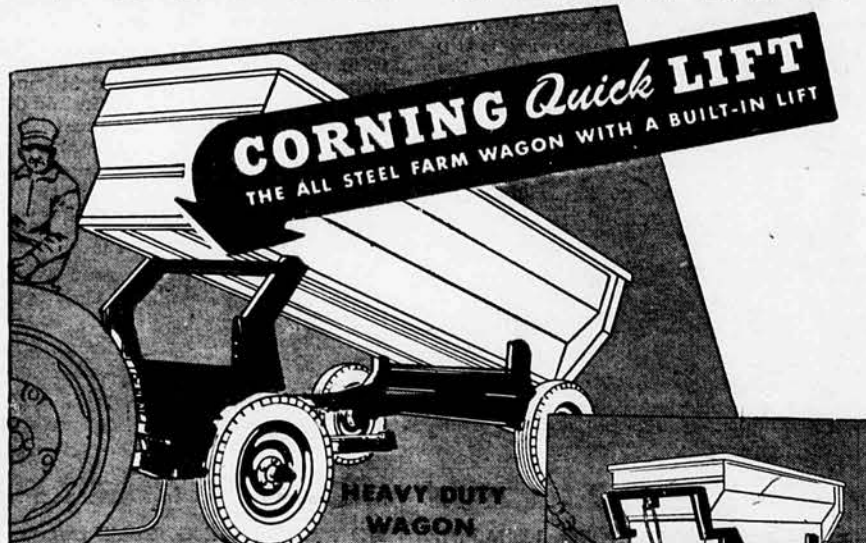


**THE ENGINE PARTS MANUFACTURING CO.**  
Dept. 245, 1360 W. 9th St., Cleveland 13, Ohio

**YELLOW DEVIL** famous sprayer with the yellow boom

Your Best Buy Today Is U. S. Savings Bonds

**The Wagon that gives you...  
DOUBLE SERVICE**



The Corning Quick Lift Double Service wagon, designed by a farmer for farmers, is a sturdy, easily handled wagon which entirely eliminates the drudgery of those heavy unloading jobs. A heavy duty, all-purpose farm wagon, outstanding in its rugged construction and durability, which pays for itself over and over, in savings of time and labor.

With the matchless Corning Quick Lift, you merely block the rear wheels, pull the safety pin and back up the tractor. The box is lifted as the tractor is backed and your load is dumped. It's just that simple. No attached or unattached gadgets to fool around with and keep track of. The Corning Quick Lift is right with you wherever you go.

For greater economy and efficiency in your hauling jobs, you'll find a Corning Quick Lift Wagon a "must."



The Corning Quick Lift Double Service Wagon can't be beat for a hundred and one hauling and dumping jobs. Handles with greatest efficiency and trouble-free performance, such commodities as small grain, corn, beans, potatoes, fodder, baled hay, sand, gravel, coal, dirt, etc. In fact, almost anything that can be dumped can be handled faster, more easily and more economically with the peerless Corning Quick Lift.

Order your Corning Quick Lift Wagon Now! If your Implement or Hardware Dealer does not have them, write us today for the name of your nearest supplier.



When you think of wagons think of—

**NEW MONARCH MACHINE & STAMPING CO.**  
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PLEASE SEND ME COMPLETE INFORMATION ON THE NEW CORNING QUICK LIFT WAGON



- Save feed
- Curb disease
- Grow uniform flock by . . .

**Culling the Loafers**

By TOM AVERY, Department of Poultry Husbandry, Kansas State College

**W**HEN is the best time to cull poultry? In actual practice, successful poultrymen begin selection and culling when chicks are taken from the incubator. They continue to cull as long as the birds live and make up part of the flock.

Success with poultry depends not only on starting with good stock, but on maintaining its efficiency at a high level by constant culling. Although one may start with good stock, there nearly always are some birds that do not grow well, and some pullets that do not lay well. The "runts" and "loafers" reduce efficiency of the flock. They require the same care and attention as normal-growing and good-laying birds. Efficiency of meat and egg production can best be attained in a flock only by culling birds as soon as they fail to give satisfactory results in growth or egg production.

**Watch These 3 Points**

Now is an excellent time to cull growing stock. Poorly-developed birds in flocks of growing chickens may be due to low quality of breeding stock from which they were hatched, to faulty diets, or to poor management. If all 3 of these conditions prevail in the same flock, it is almost certain to be an unprofitable flock.

The 3 outstanding advantages in culling growing stock from time to time are:

- (1) Saving of feed. Stunted chickens are unable to utilize their feed properly, hence, the longer they are left in the flock the more feed is wasted.
- (2) A tendency to prevent spread of disease—some diseases spread very rapidly from sick to healthy chickens, so it is important to remove sick chickens from the flock as soon as noticed.

(3) A more uniform flock as the result. If undeveloped and diseased chickens are culled thruout the growing season, the rest of the flock will be more uniform in size and appearance. This is important in marketing broilers, because a group varying in size usually has to be sold at a discount.

**Vigor Most Important**

In culling growing stock, lack of vigor is probably the most important thing to look for. Birds with good vigor are interested in things going on around them and are active. There are several symptoms indicating lack of vigor in growing stock. If young chickens look dumpy and tend to huddle in a corner, it is a sure sign they are either chilled or sick. Droopy feathers indicate disease. Plumage lacking its normal luster indicates sickness. Eyes that are sunken and dull usually indicate lack of inherent vigor or the presence of disease. It is a good practice to cull chickens showing gray eyes, as such a condition often indicates the presence of fowl paralysis.

Culling for poor feathering is important. In practically every flock there are some birds that are poorly feathered up to 6 or 8 weeks old. This may be due to overcrowding or certain deficiencies in the diet, but is generally due to breeding. There are several reasons poorly-feathered birds are objectionable, most important being the case of broilers where presence of pinfeathers on the carcass makes dressing difficult. Also, there is some evidence that rapid-feathering birds make more rapid growth than the slow-feathering ones. Poorly-feathered chicks should be marked during the first 4 or 5 weeks by toe-punching or wing-handing them.

(Continued on Page 19)

**Record Size Hailstones?**



**G**IANT HAILSTONES measuring 3½ to 4 inches around the middle fell during a recent storm in Topeka. Holding the bowlful is Jackie Curtis, daughter of WIBW's widely-known radio announcer, Elmer Curtis. The TOPEKA DAILY CAPITAL'S alert photographer took this picture. Now KANSAS FARMER wants to know whether these hailstones are record size. Won't you please tell the editor whether you have seen any larger hailstones?



so they can be identified and marketed as broilers or roosters. The advantage in identifying poorly-feathered birds during the early growing period is that none of them will be kept as breeders.

Culling for body shape and fleshing should not be overlooked. Because more than one half of the chickens raised each year are sold for meat, it is important that some attention be given to shape of body and amount of fleshing at various stages of growth. Cull extremely long-legged, narrow-bodied birds and market them at the most advantageous size. Also, cull knock-kneed and bowlegged birds, as well as those with crooked breast bones. The larger the bird before it is marketed, the more pounds of feed are consumed per pound of gain in body weight. It is, therefore, desirable to market the culls as soon as possible, depending upon market price of birds at different sizes. Quick-growing cockerels and pullets should be marked so they can be saved for breeders. Birds to be used as capons should be selected early and should come from strong, vigorous cockerels. Too frequently people do not give sufficient thought to the type of bird or age at which to caponize.

**How Much for Feed?**

Culling the laying flock. It is a well-known fact that profits from the laying flock are directly related to egg production. As egg production increases, income over feed cost rises much more rapidly than total cost of production. Since feed cost amounts to at least one half the total cost of producing eggs, it is necessary to cull poor layers as soon as they can be detected. In order to affect production as little as possible, culling the flock by using catching crates should be done after 2:00 p. m. Most of the eggs for the day have been laid by that time. Culling hens at this season is relatively easy. Any birds that are not laying now should be removed from the flock. If one did no more than remove those birds showing yellow shanks and beaks, he could be reasonably sure he was getting the loafers. Plumage also is a pretty good indication as to what a hen has been doing since last fall. Plumage of a high producer shows wear and tear from constant visits to the nests.

May is an excellent time to dispose of old breeding males. All males should be marketed as soon as the last hatching egg has been gathered. Fertile eggs are a poor investment in hot weather, and should never be produced except for hatching.

**Means Less Milk**

Length of time cows remain dry has a definite bearing on milk production during the next lactation period, says Harry Ainslie, of Kansas State College.

Young cows need 70 to 75 days dry period, and older cows need 40 to 45 days, Mr. Ainslie reports. It has been proved that by cutting down on the length of the dry period you decrease milk production during the next lactation period.

**Sr. Superior Sire**

A Kansas Jersey bull, Longfields Jester of Oz, owned by Lawrence Byler, Wellington, has been named a Senior Superior Sire by the American Jersey Cattle Club.

The Senior Superior Sire rating indicates that a bull has the ability to pass on both high production and good breed type to his daughters. Longfields Jester of Oz has 20 tested daughters that have averaged 9,310 pounds milk and 475 pounds butterfat in 10 months on twice a day milking, mature equivalent basis. The bull also has 28 daughters classified for breed type with an average rating of 83.93 points, and is himself classified as "Very Good."

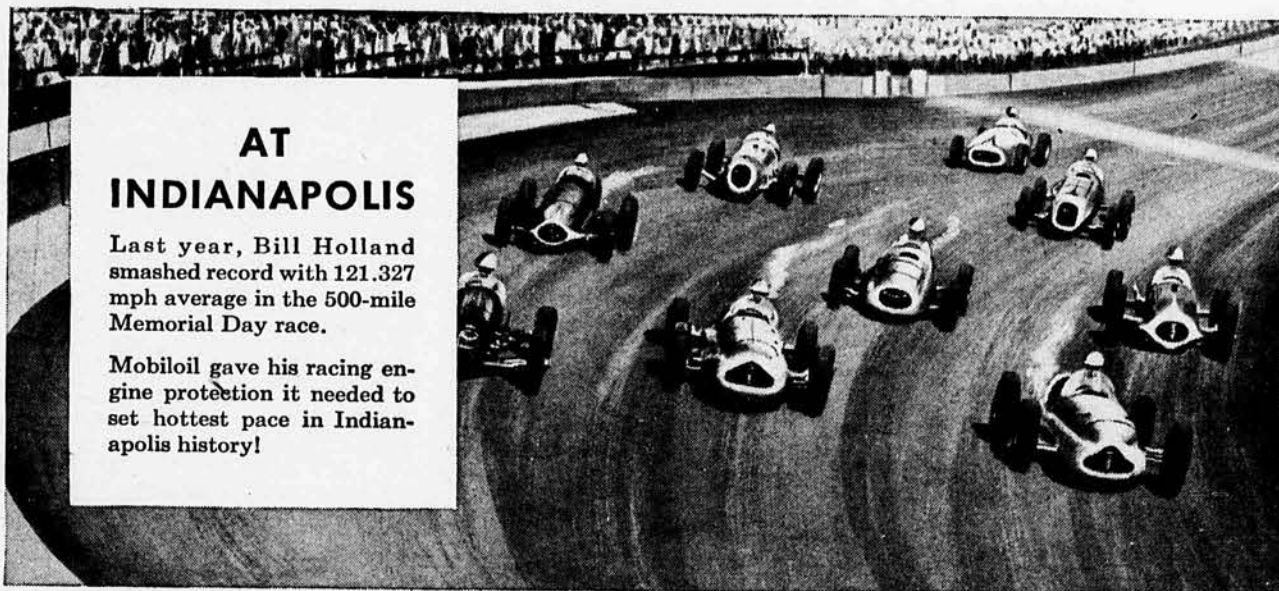
*If hard of hearing, you will be glad to have...*

**Hints About Deafness**

Doctor Lerrigo has issued a special letter "Hints About Deafness" that will be sent to subscribers upon request. If you desire a copy, be sure to send stamped reply envelope addressed to yourself. Send your request to Editor, Kansas Farmer, Topeka, Kan.

# Record Busters

**KNOW THEIR OIL —**



**AT INDIANAPOLIS**

Last year, Bill Holland smashed record with 121.327 mph average in the 500-mile Memorial Day race.

Mobiloil gave his racing engine protection it needed to set hottest pace in Indianapolis history!

## SO DO FARMERS



**I**NSIDE a racing car or tractor engine, correct lubrication can mean the difference between *full power* and sluggish performance—between *smooth operation* and costly trouble.

That's why it pays farmers everywhere to drain oil regularly—refill with fresh Mobiloil for unsurpassed TRIPLE-ACTION: —1) *instant flow* of oil to all parts; 2) *full protection* against corrosion, deposits; 3) *top economy*, fewer repairs.

Play Safe—Use Mobiloil in your farm engines. It's anti-acid, detergent and has high V. I.

*Call in Your Mobilgas-Mobiloil Man—*

# Mobiloil



**Get Famous Mobilgrease and Mobilube Gear Oil, too!**

## "Horseback Life" PAYS For This Farm Family!

Father Quit Bank Job To Farm—  
Now Shows Champion Horses



Randy Rust, father Franklin Rust, and "Hot Document". Rusts are another farm family of Wheaties eaters. YOUR folks getting Wheaties nourishment, too?

**BLOOMINGTON, ILL.**—Several years ago Franklin Rust quit a bank job to go farming. Started with a few hogs. Today Rusts farm 600 acres—550 in grain! Also show champion horses. Their pony "Hot Document" took top honors at several 1949 shows.

\* \* \*

Whole Rust family horseback fans. Mother rides for sport. Sons Randy and Bill ride to school. Father rides to look over stock and land. Stock includes 100 head of steers, 200 hogs, 10 milk cows. Plenty of milk for Rust family's Wheaties! Whole family eats these nourishing flakes often, with milk and fruit.



"Not much dinner for me. I wanna save room for a big Wheaties breakfast tomorrow!"

95-year-old great-grandmother of family has made 16 quilts — still doesn't wear glasses. Calls self a "Wheaties champion quilter." 4 generations of Rusts eat Wheaties. Not unusual! More families eat Wheaties than any other whole wheat cereal. How about yours?

What's made Wheaties a family favorite? They're second-helping good! Nourishing, too. Wheaties give you B-vitamins, minerals, protein, food energy. Fine cereal for your family: Wheaties, "Breakfast of Champions!"



Extra value with Wheaties (1) Silverware coupons in Wheaties and other General Mills products. (2) 50% more than regular size in Wheaties' Extra-Big-Pak.



"Wheaties" and "Breakfast of Champions" are registered trade marks of General Mills.

## Painting Is No. 1 Hobby

But This Farm Wife Has 3 Others

WITH 4 hobbies that take up a lot of room, Mrs. Jewell Miller, Stevens county farm wife, has just about worked herself out of a place to live.

Her hobbies include painting, furniture upholstering, sewing and music. That's a lot of activity to pack into one small house, but she manages it somehow.

Painting probably is her first love and certainly is the hobby that has brought her the greatest recognition. "I've never had a painting lesson in my life," says Mrs. Miller. "My enthusiasm for painting has been hot and cold since about 1927."

It was back about 1927 she began her painting but never stuck with it very long. "I would paint like mad for awhile, then lose interest for several years," she recalls. "For one thing painting is an expensive hobby when you are doing it just for your own amusement. In all those years I never sold one of my pictures until fairly recently.

### Won Many Ribbons

During her "painting spells" Mrs. Miller has turned out work in pastels, water colors and oils. She has won many ribbons at the county fair, and one of her pictures took second place in its class at the Kansas State Fair. A Hugoton business house used her pictures during a formal opening event and she has had other recognition for her work by professional painters.

Another hobby played a part, tho, in finally bringing her commercial returns for her painting efforts. She and her husband Clyde have for years enjoyed doing furniture upholstering. Many of their winter days are spent at it and people bring them work from quite a large area.

It was only natural that these visitors to the Miller home saw and admired her pictures, just as did those who saw them exhibited at the fairs.

Many of these people began wanting samples of her work.

"At first," says Mrs. Miller, "the demand was for copies of pictures I already had done." Later, because of her knowledge of colors, women in the area began seeking her advice on home decorations. Then she began to design original pictures to go with the decoration ideas. Now most of her pictures are done "on order" to match the color scheme of a room being decorated.

Like most painters, Mrs. Miller does not enjoy painting "on order" too well. Her favorite subjects are scenery and flower arrangements. "Naturally, it is more fun to do pictures when you are in the mood for them," she says. She has become quite famous in the area for her flower pictures, however, and her exotic birds, done in bold colors, also are popular.

The best work she has done to date, she believes, is a pastel horse head, one of a set of 3 being done for a fireplace arrangement. Many of her pictures are done in pairs, using the same pattern but reversing it, so the same picture can be hung on opposite sides of a fireplace.

For her flower pictures Mrs. Miller often looks thru the seed catalogues until she finds just the blossom she wants to use as a model. She then makes up her own flower arrangement.

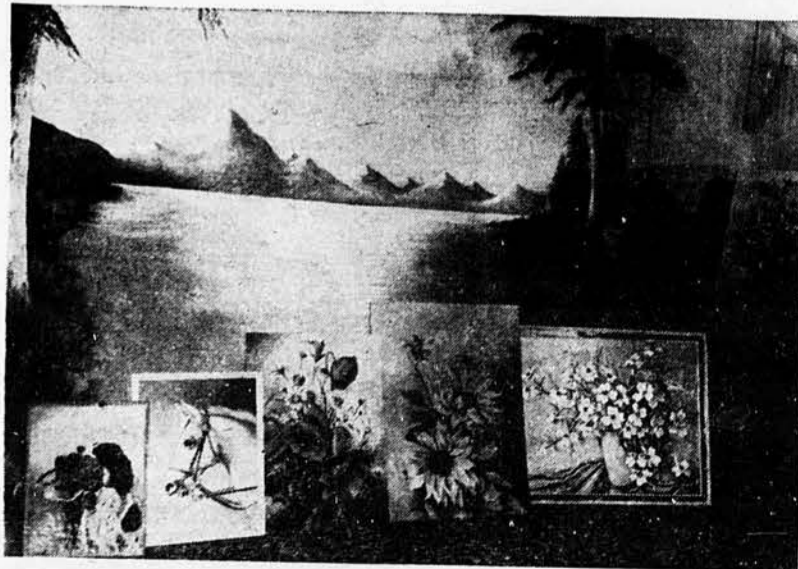
### These Take More Time

Oil paintings take the longest time because each coat has to dry. "I sometimes spend 40 hours on one oil painting," she says, "but many of the pastels and water colors can be done in several afternoons of work."

Sometimes people want just a small sample of Mrs. Miller's paintings to give someone as a present. Her small flower pictures, selling at \$5 each, have become popular presents for wedding showers in that area. But, for her regular size paintings she gets from



Mrs. Jewell Miller is shown here working on one of her popular flower pictures. Most of her painting is done "on order" to fit in with home-decorating plans.



Here are only a few samples of the many paintings done by Mrs. Jewell Miller, a Stevens county farm wife. She does painting in pastels, water colors and oils; does professional upholstering work; makes all her clothes and plays several musical instruments.

## Smart Dog Contest!



Who has the smartest farm dog in Kansas? Kansas Farmer will pay \$3 for each true story accepted and printed about some smart thing done by a farm dog. The trick

or accomplishment may or may not be something taught by the owner. Stories must not exceed 500 words. Send your entry right away to Dog Story Editor, Kansas Farmer, Topeka, Kansas.



\$20 up. Many of them sell for \$50 to \$75 and she has one picture marked at \$125. These prices include the framing, which also is done by Mrs. Miller.

When we called on Mrs. Miller she was painting a huge picture that nearly filled her living room. This picture, a lake and mountain scene, was being done on order for the Baptist Church at Hugoton. It will be used as the background for a special stage effect.

It must be difficult, we thought, for Mrs. Miller to decide each morning just what hobby she will follow for that day. As a seamstress she makes all her clothes. As a musician she plays both the piano and xylophone by ear. As an upholsterer she can work on either her own or someone else's furniture. And, of course, as a painter she can paint something for sale or just for the fun of it.

One thing is certain. A lot of people in Southwest Kansas are finding that original "pictures by Jewell Miller" make their homes more attractive—and distinctive, too.

### Want a Job?

Farm boys looking for a farm-related profession that isn't crowded should consider veterinary medicine, announces the U. S. Department of Agriculture, which says:

"The U. S. Department of Agriculture offers an attractive career for graduates of veterinary medicine, but the Bureau of Animal Industry reports it continues to experience a shortage of personnel."

Some of the bureau work hampered by lack of veterinarians includes control and eradication of animal diseases, and federal meat inspection. Last year the bureau started employing sophomore and junior students from veterinary schools for summer work.

### Be Sure of Seed

Selling unlabeled screenings as seed in violation of the Kansas seed law has resulted in court fines for 2 men according to John L. Monaghan, director of the Control Division of the Kansas State Board of Agriculture.

Monaghan commented that work of investigating the cases was carried out by O. F. Snyder, inspector for the Control Division, and that several other inspectors are checking on agricultural seed sales thruout the state.

Under the law, all agricultural seed must be truthfully labeled, and in purchasing seed, Monaghan urged farmers to check labeling carefully to be sure that it is properly labeled and is the type of seed they want. Each seed label, under Kansas law, must carry a statement concerning purity, germination, weed seed, hard seed, in the case of legumes, inert matter; date tested, other crop seed, origin and the presence of noxious seeds.

### For June Bride

Reliable and up-to-date information for the bride-to-be and her mother is given in our revised leaflet, "The Bride's Blue Book." If you are planning a June wedding there is much in this 12-page leaflet of interest and help. For a copy, please address Entertainment Editor, Kansas Farmer, Topeka. Price 5 cents.

# Thoughts TO LIVE BY

## Friendship

CLASSICAL essays have been written about friendship. Bacon considered friendship a form of insurance. He believed the motive behind it is selfish. We develop friendship for what we can get out of our friends. Man is incomplete and inadequate in himself. Therefore, he needs the assistance of others. It is only because this selfishness is of mutual advantage that friendship continues to exist. This motive plays a large part in the experience of people who consciously try to master certain techniques so they can "win friends and influence people."

As he sat about a table with his disciples, the Master said, "Henceforth I call you not servants;—but—friends." "Ye are my friends, if ye do whatsoever I command you." Superficially, his concept appears to fit into the mold set forth above. But look again. Consider these statements against the background of his life, and it then becomes apparent he elevated friendship to its highest level. "Greater love hath no man than this, that a man lay down his life for his friends." Jesus did that very thing. Therefore, he had the right to make demands upon those who enter this relation of friendship with him. According to his concept of friendship, every friend must give himself without reservation. He who is so unselfish has the right to expect a similar response from others. Usually he gets it, but occasionally the man whom he calls friend responds with a kiss of betrayal. That is the tragedy of friendship. To know the joys of real friendship, one must run the risk of such betrayal.

How can a person develop a beau-

tiful friendship? There is a way, one that is free from the taint of insincerity. It puts friendship within the grasp of everyone who desires it. To win a friend, one must be a friend. He starts the process by simply being friendly. Not everyone is a traitor. The majority of people will gladly respond to the overture of friendliness by being friendly. Thus the process begins. How badly this old world and everyone in it needs true friendship! What a contribution our friendliness makes!

We should not ignore the great by-products of noble friendship. Besides the obvious benefits of mutual assistance, there are values that enrich the depths of life. Some of these have been sketched by an anonymous friend:

I love you not only for what you are, but for what I am when I am with you.

I love you not only for what you have made of yourself, but for what you are making of me.

I love you for the part of me that you bring out.

I love you for putting your hand into my heaped-up heart and passing over all the frivolous and weak things that you cannot but help seeing there and drawing out into the light all the beautiful, radiant things that no one else has looked quite far enough to find.

I love you for ignoring the possibilities of the fool in me, and for laying firm hold of the possibilities of good in me.

I love you for closing your eyes to the discords in me and for adding to the music in me by worshipful listening.

I love you because you are helping me to make of the lumber of my every day not a reproach, but a song.

I love you because you have done more than any creed could have done to make me happy.

You have done it by just being yourself. After all, perhaps that is what being a friend means.

—Larry Schwarz

## Where Did Spraying Start?

REMEMBER in the May 6, 1950, KANSAS FARMER, page 7, under the heading "Where Did They Start?" we gave a few notes on where spraying and dusting started. Further regarding the background of spraying, we find these colorful references:

1. Pliny (AD 23-77) quotes Democritus (about 470 BC) as recommending sprinkling plants with pure Amurca of olives without salt to prevent blight, and to destroy worms adhering to the roots.

2. The "spraying machine" in earlier days (as late as 1880) was a bundle of sticks or straws tied broom fashion which "swished" the insecticide or fungicide on the plant by main strength and whip.

3. Next step was the watering can; then the syringe.

4. You will find good references in 2 publications:

a. The Spraying of Plants by Lode-

man; MacMillan Co., published in 1906.  
b. Spraying, Dusting and Fumigating of Plants, by Mason; MacMillan Co., 1928.

This information came from the Dobbins Manufacturing Company, Elkhart, Ind., and D. P. Guthridge, vice-president of Spencer Curtis, Inc., Advertising Company.

### Double Use for Lime

Using hydrated lime in the poultry house to cut down the odor has a second value not generally considered—that of preventing the nitrogen in the poultry manure from being liberated into the air as ammonia, says Paul E. Sanford, of the Kansas State College poultry husbandry department.

Mr. Sanford recommends use of 100 to 200 pounds of hydrated lime to each ton of manure, or about 1.5 pounds per 100 hens daily.



When a swan and a duck on the pond sail away,  
'Tis their down that keeps them up, so they say.

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At Left: The author stands beside rejuvenated sideboard. Lovely old bowl in foreground holds some of Mr. Kelly's prize roses.

Below: Grandma's golden oak sideboard was stained a wheat shade, the pinkish-brown marble top was retained, and shelves display some family heirlooms.



## Grandma's Sideboard Goes Glamorous

By Harriette H. Kelly

**D**O YOU have one of those monstrosities of the past century . . . a golden oak sideboard replete with carvings and mirrors, hidden away in your attic? We did . . . only ours was on the back porch. Because it had been so carefully fashioned with plenty of storage space by honest hands, we could never bear to part with it, but kept it literally bulging with odds and ends.

Last spring when we continued the modernization of our kitchen by addition of more

built-in cupboards, I looked upon my outmoded kitchen cabinet with audible distaste. It certainly contributed little in beauty to the overall picture.

"Chuck it out," suggested my practical husband.

"And use what?" I countered.

"Well, you might bring in Grandma's sideboard," he laughed.

"I might at that," I said thoughtfully. After all, usable antiques were my dish.

"Let's go look it over!"

The upshot of the matter was that the more we looked over the gallant old wreck, the more enthusiastic we became. It looked pretty sad with its bleary mirrors set in a tall, wobbly frame slightly askew, the wood dark and gummy with age. Yet it still carried a certain dignity with its hand carvings and marble top. The lower part was staunchly shipshape, unwarped and substantially built with those nice deep drawers that still slid in and out smoothly.

The ornate, mirrored back would have to go, of course, but the marble top, a lovely warm shade of pinkish brown and in excellent condition, would be just right for kitchen use.

Excitedly, we thumbed thru magazines that night. I had always lacked sufficient "show-off" space for our treasured pieces of family china, so I decided on a back with shelves for this purpose.

Next morning we sent in a call for Ralph. Ralph Pollard is a young craftsman in our town who has an eye for color and the artistic ability to perform miracles with old furniture. Having Ralph close at hand has spoiled our initiative in that direction. As a rosarian my husband is tops, but one tap on his "green thumb" with a hammer and he retreats with more speed than dignity.

Ralph promptly took over our project. The back of the old sideboard was removed and the base sanded and cleaned right down to the original bare wood, then bleached. After filling the grain, it was stained a light golden wheat shade. Next a lacquer sealer was applied, sanded lightly and then a coat of clear gloss lacquer for depth was added. After this was thoroly dry, it was rubbed down and a finishing coat of flat lacquer added. The effect was truly beautiful. The grain showed up clearly thru a smooth, satiny finish; [Continued on Page 23]



At Left: Fine china and glass of the past century find a friendly resting place. Out front stands old family condiment set.

the hand carvings took on a new distinction and depth. Next, doors and drawers were tightened and smoothed up. The brass handles were thoroly cleaned with lacquer thinner and steel wool, then polished to a warm, friendly glow.

Now, we were ready for the top. There are so many fascinating ways the top could be designed: 2 or 3 shelves, open or closed on top with back of various colors for contrast. Sides of the shelves might be closed or open, scalloped or plain.

**Used Welsh Red**

After a great deal of good-natured disagreement, Ralph won out for the back or lining of the shelves to be in traditional Welsh red. I was somewhat dubious of this until completion. It proved very striking, a perfect background to show off our interesting old china effectively.

The scrolled shadow-box effect of the shelves was my idea, altho Ralph solemnly warned me that it violated all principles of early Americana. We were both agreed on retaining the original cornice on top.

In constructing the back, plain pine barn siding was used. After filling, a satin finish enamel was applied of a blended shade of soft yet bright tangerine. After drying, a mixture of glazing liquid and raw turkey umber was applied. While this was still wet, it was wiped with a soft cloth in vertical strokes. Care must be taken to wipe only part off so as not to lose the slightly streaked effect.

Two shelves 9 inches deep were then attached, the first one 10 1/2 inches from the marble top; the second was placed 9 inches from the first. Topping them was the original cornice which, together with the scrolls at the front, gives a great deal of dust protection to the open shelves. We did not have enough material from the original sideboard to make the shelves and used the doors of an old oak wardrobe for that purpose.

Finished, our Welsh hutch has a wealth of old charm and appeal, yet there's a practical utility combined with its beauty. The marble top and the durable finish can take the hard knocks of daily living. Anyone with the knack and the will for cleaning off wood and refinishing it, who is handy with a hammer and a jigsaw, can easily transform an old sideboard into as handsome a piece.

**Cost Negligible**

If willing to put in the necessary work and time, the material cost is negligible, approximately \$25. I've seen similar pieces in the stores priced around \$200, even more, and they were neither as roomy nor sturdily built as our hutch. Then, too, ours has the mellowness of age with traditional beauty that causes admirers to exclaim, "How can you keep it in the kitchen?"

**Freeze Last of Rhubarb**

Freezing is a better way to preserve rhubarb for year-round use than putting it down in water or uncooked canning. One method is to wash the stalks and cut them in 1-inch pieces. Simply place the pieces in cartons or freezing jars and freeze. Another method is to place the cut pieces in scalding water for 1 1/2 minutes, then cool, package and freeze.

Sugar sirup may be added before freezing if desired. Rhubarb is one of the few garden products in the vegetable class which can be frozen without a heat treatment, perhaps of its acidity.

**For the June Bride**

The following leaflets may offer suggestions if you are planning a party, a luncheon, a shower, or for the wedding of a June bride:

- Bride-to-Be Tea Shower.
- Sewing Shower for the Bride-to-Be. Lunch table decorations suggested, also quiz program.
- Mary Ann's Chapter for Brides and Mothers. Announcing the engagement; the wedding, at church or at home; invitations, reception and much other information of interest in this leaflet.

The Entertainment Editor, Kansas Farmer, Topeka, can supply you with any one or all of these leaflets at 5c each. Your order will be given prompt attention.



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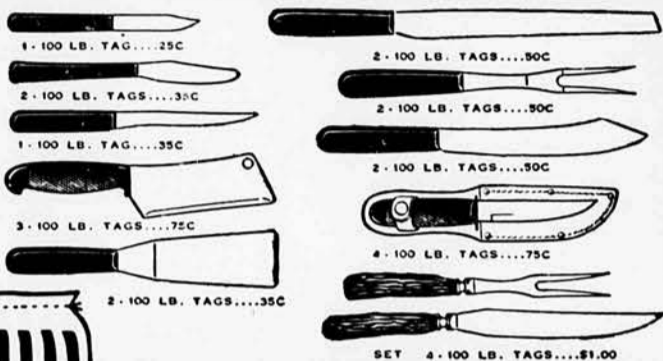
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When you find the item you want, read the manufacturers' description and then hunt up your local dealer. Likely he has the product in stock you have been reading about in the Kansas Farmer.

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In recent issues of Kansas farmer, you have read about library facilities for farm people in various parts of the state. We have told you about the library survey being made by Andre S. Nielsen who was employed by the State Library Board. Here, we tell you about Mr. Nielsen's latest trip to Kansas from his job as librarian at the Evanston, Ill., public library. Too, we give you the library situation in Finney county, as reported by Mrs. Frank Crase, Master Farm Homemaker, class of 1947.

*Kansas Libraries*



THE last week in April, Mr. Nielsen attended 6 library meetings held at Baldwin, Pittsburg, Arkansas City, Dodge City, Hill City and Salina. These were regular organized library meetings attended by librarians and library trustees. At each meeting he spoke about the survey he is making and answered many questions. In general terms he outlined plans of what he hopes the results of the survey will be.

Mr. Nielsen added, "The greatest problem of librarians is lack of money. They are eager that more money be provided so better library service may be offered. They are eager, also, to extend library service to places in their communities where it is not now available."

"Librarians in very small towns were hopeful that guidance might be available in solving their problems, such as book selection, money expenditure, administration of the library plant itself. They wanted help on reorganization, whether money should be spent on binding periodicals, whether it is wise to purchase sets of books. Many librarians do not know the legal processes involved in the improvement of libraries."

"All the librarians were interested in the establishment of a demonstration unit, so their communities could see what good library service is."

**To Make Report**

Mr. Nielsen will be back in Kansas once more before making his report to the Library Commission by July 1.

The following is a letter from Mrs. Frank Crase who writes about the library status in Finney county, Garden City.

Dear Editor: I began my study of library facilities by working thru the home demonstration units, asking one woman in each group to ask questions and take notes on the reaction. Next, I talked with the county superintendent of schools, high school and junior college librarians, city librarian, English teachers who also act as librarians of our 2 small high schools, and with several other teachers and persons whom I felt were interested.

As might be expected, reactions were as varied as personalities of folks interviewed. One idea was held in common: better facilities are needed, there also is a great need to interest more people in more reading and better reading. The comic books, movies, radio and picture magazines were all blamed for the general indifferent attitude toward constructive reading. The \$64 question seems to be how to arouse necessary interest and obtain larger or improved facilities. I believe they must be worked out together.

**Have Carnegie Library**

Finney county is more fortunate perhaps than most, in that we have a Carnegie library which was established some 35 years ago, and is free to all residents of the county; supported by city taxes and grants from the county commissioners. It is a standard library according to the American Library Association. Area served has between 14,000 and 15,000 population and there are about 4,000 holders of library cards. There are some 23,000 volumes on the shelves, plus a wide selection of magazines.

Books are drawn for a 2-week period and the only charge is for lost, damaged or overdue books. The staff consists of one librarian and an assistant, both trained.

Since books are checked out under the same conditions to all, no record

is kept of the proportion of town and rural readers, but indications are that farm people use the library freely. One big difficulty is size of the county and distances, 35 to 40 miles to Garden City in some cases. The possibilities of a bookmobile appealed to these people, especially to the county superintendent and teachers of some outlying schools. Some objections were made that a bookmobile might be stranded by a sudden storm or bad roads and remain in an isolated community for a long period.

It is true some rural roads are impassable for days or even weeks during winter, but this hardly seems reason for vetoing a bookmobile. Such communities are without telephones and during bad weather cannot be reached by the rural mail carrier, so it seems to me their need for reading material is all the greater.

**Some Use Library**

Some home demonstration groups seemed to be doing considerable reading and used the library to some extent. One or 2 reports indicated present facilities are adequate, but they preferred that library hours be extended so they could go in any time. From these same groups came an emphatic "No!" to increased taxation for a bookmobile! Apparently they failed to realize that longer hours for the present library staff would mean increased taxes to pay for the extra help.

I visited the 2 small high-school libraries; their teachers seemed especially eager for something new to offer students.

One thing that has been a matter of deep concern to me for some time is the general attitude of indifference toward general reading. I believe in order to maintain our democratic form of government, people must be informed and I do not believe this can be accomplished by one daily paper and the radio.

I also believe if we could establish reading habits, perhaps even re-establish the old-fashioned reading aloud to the family group, we would aid in stabilizing our home life and make the home once more a center of family interest, instead of merely a refueling station and a starting point for numerous outside activities.—Mrs. Frank Crase, Garden City.

**Makes Windows Sparkle**

Dissolve 1/2 tablespoon of trisodium phosphate in 1/2 cup hot water. Then stir in 4 tablespoons of whiting powder and add enough water to make a quart of a smooth mixture. Before you use this liquid, wipe surface dirt from window with soft paper. Shake the liquid well and apply with a soft cloth. Let it dry. Then polish with a dry cloth.

**Make It Yourself**

We offer you a new free booklet entitled, "It's Easy to Make It Yourself with Plastics." Now that plastic comes by the yard in every beautiful color, it is easily made into shower curtains, kitchen curtains, chair pads, aprons, table covers, bedspreads, food bags and many other household items. This booklet gives sewing and cutting instructions for making 22 household conveniences. Send your order to the Farm Service Editor, Kansas Farmer, Topeka. There is no cost.



## Summer Pattern Plan



4617  
SIZES  
12-20

4617—Good for any purpose and easy to make. Sizes 12 to 20. Size 16 requires 3 3/4 yards of 35-inch material.

9366—Bra-top, shirt, shorts and a big-pocketed skirt make a happy foursome. Sizes 12 to 20. Size 16 requires 5 3/8 yards of 39-inch material.

4683—Cool, crisp frock with square neckline and slanted pockets. Sizes 34 to 50. Size 36 requires 4 yards of 35-inch material.



9366  
SIZES  
12-20



4683  
SIZES  
34-50

4604—Comfortable and slenderizing with ruffled sleeves. Sizes 12 to 20; 30 to 42. Size 16 requires 5 3/8 yards of 35-inch material.



4604  
SIZES  
12-20  
30-42

9260—Sun dress with fly-away jacket. Sunback wings on dress will unbutton. Sizes 12 to 20. Size 16 requires 3 3/8 yards of 35-inch material.

9260  
SIZES  
12-20

9446—Scallops on pinafore and collar. Sizes 2 to 10. Size 6, sundress and jacket require 1 3/4 yards; 1 yard contrasting 35-inch material.

9469—Sun dress with jacket for more cover-up. Sizes 12 to 20; 30 to 42. Size 16 ensemble requires 5 1/2 yards of 35-inch material.



9446  
SIZES  
2-10



9469  
SIZES  
12-20  
30-42



Mrs. Smafield shows her family a photograph of her \$50,000 check.

## WINS \$50,000 IN NATIONAL CONTEST

The country's Number 1 prize cook—that's Mrs. Ralph E. Smafield of Detroit, Michigan, winner of the biggest contest of its kind ever held in the United States. Competing against America's top-ranking cooks in the Grand Ballroom of a New York hotel, Mrs. Smafield was awarded the grand prize of \$50,000! Mrs. Smafield—who is a busy wife and mother—says, "One of the first things I learned was how important good ingredients

are. Take yeast, for instance. I've used Fleischmann's Yeast for 6 years because I know what a fine, lively yeast it is. It's always fast rising and I can depend on it for perfect success." No doubt about it! Fleischmann's Yeast is made extra active to rise extra fast—made to give you finest results when you bake at home. No wonder America's prize-winning cooks prefer Fleischmann's Yeast to all others.

### Read the Ads in This Issue

There's a world of helpful information in the scores of advertisements in this particular issue of Kansas Farmer. Read them carefully. If you want to find out more about the articles described, don't hesitate to write the advertiser.

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# CONTINENTAL AIR LINES

FLY AND SHIP *The Blue Skyway*

Send 25 cents for each pattern to the Fashion Editor, Kansas Farmer, Topeka. Twenty cents more for new Summer Pattern Book with free pattern printed in the book.



**The Recipe Corner**



**Tuna-Olive Bake**

For the spring season and all during the year, we offer a tuna fish casserole.

- |                            |                                   |
|----------------------------|-----------------------------------|
| 2 teaspoons salt           | 2 small cans                      |
| 6 cups water               | mushroom soup                     |
| 1 1/2 package noodles      | 1 1/2 cups water                  |
| 1 1/2 cups grated cheese   | 1/2 teaspoon Worcestershire sauce |
| 3 hard-cooked eggs, sliced | 2 cans tuna fish, 7 ounce size    |
| 3/4 cup sliced olives      | parsley                           |

Add salt to the 6 cups water and bring to boil. Add noodles and cook for about 20 minutes or until noodles are

done. Drain and rinse in cold water. Add 1 1/2 cups water to mushroom soup and heat, stirring until smooth. Stir in Worcestershire sauce. Remove from heat and stir in cheese until melted. Reserve a few egg slices and olive slices for garnish. Mix together rest of egg slices, olive slices, tuna fish, noodles and mushroom sauce. Pour into a baking dish and garnish with egg and olive slices. Bake in moderate oven (350° F.) for about 30 minutes. When ready to serve, garnish with parsley. Makes about 9 servings.

**❖ The Poet's Corner ❖**

**Two Toads**

Two toads are sitting on the pump,  
Sometimes, they sit for hours there,  
And seem content to stare ahead  
Apparently, without a care.

A toad must live a happy life,  
His tiny world most pleasant be,  
He never has a grocery bill  
And rent upon his home is free.

He spends vacations on the pump,  
He needs no furniture or car,  
He needs no shoes or hats, I think  
He's better off than man by far.  
—By Juanita Jackson.

**Spring's Returned**

Violets on a distant hill  
Begonias on my window sill  
The panorama's near and far  
Lush colored like a rainbow bar  
Shaded, muted, blended, mixed  
Since spring's returned, a world trans-  
fixed.

When she threw on her emerald cloak  
Flecked with red and heliotrope  
And blended shades with an artist's  
hand  
Then painted the drab gray winter land!  
—By Pauline Bender Rhoden.

**Lucky I**

Your love is my security . . .  
I have small need of gold,  
Nor do I fear futurity  
When I am bent and old,  
You are the rock on which I lean,  
The bread and wine of life;  
You are the summer sky serene . . .  
A boon to any wife.  
—By Ethel Lenore Turley.

**Wee Cook**

Tell me, tell me, little cook  
What you're mixing in a bowl  
By recipe from mother's book,  
Tell me, tell me, little cook!  
May I take a teeny look?  
Will you frost it when it's cold?  
Tell me, tell me, little cook  
What you're mixing in a bowl!  
—By Mary Holman Grimes.

**Favorite Dolly**



**7121**

**Have Fun Outdoors**

Picnic time is here! If in need of suggestions for games, KANSAS FARMER has 2 leaflets we can recommend. They are: "Games for Young and Old," and "15 Games for Indoors and Outdoors." These may be ordered from Entertainment Editor, Kansas Farmer, Topeka. Price 3c each.

A new doily in combined spiderweb and pineapple design. Large doily is 21 inches across in No. 30 cotton. Pattern 7121 gives directions and chart.

Send 20 cents for pattern to Needlework Editor, Kansas Farmer, Topeka. Twenty cents more for Needlework Catalog with free pattern printed inside.

## Books On Review

### Meet Your Ancestors

Roy Chapman Andrews, the author, is first an eminent scientist and also a delightful writer. He joined the staff of the American Museum of Natural History in 1906 and retired from that institution in 1941. His first job was to sweep the floor of one of the laboratories, his last job was director of the institution. He has traveled all over the world, spent 10 years on expeditions into unexplored Asia. He is particularly famous for discovering the dinosaur eggs in the Gobi desert at the time he was hunting for information on primitive men.

This book is delightful because Doctor Andrews tells the layman facts about our primitive ancestors in an easy-to-read style, without the use of too-scientific terms. He explodes a lot of theories commonly held by most folks. The first page of the book explains that the man-like apes, the gorilla, chimpanzee, orangutan and gibbon are not our ancestors as Darwin wrote, but that they came along with man from a common ancestor. Drawings in the book illustrate this point clearly.

Figures that deal with the history of primitive man are in the millions. Doctor Andrews points out that man does not belong to one of the first families, since he has been traced back only 15 million years and the garden mole can trace his family tree for 70 or 80 million. Judging from past development the author predicts that in 500,000 years that the heads of man and woman as well will be bald as eggs, they will have large round heads, small faces, weak jaws and only 4 toes. They will not have sinus trouble or aching backs or fallen arches.

That's his prediction if we live . . . but he also has a pessimistic view . . . that man with his wonderful brain may destroy himself. Even discounting the probability that we cannot for much longer survive wars, the life cycle of all live creatures seems to be determined by nature. Man's stay on earth has been incredibly short and brilliant.

Read this book for yourself and learn about our ancestors. It is published by the Viking Press, New York City. See or write your nearest bookstore or library.

### Draw or Drag

Here is a western you will enjoy. The background of "Draw or Drag" is the Dolores River region of Southwest Colorado with its gorges, mountain peaks and low cattle lands.

The author, Wayne D. Overholser, is a western man who has traveled a great deal to gather pioneer lore which he uses as background material for his stories. He is a member of the Colorado Author's League and now lives in Boulder, Colo.

"Draw or Drag" is published by The Macmillan Company, New York City. Cost \$2.50.

### Cape Cod Summer

If you, like most of us, have to do your traveling by sitting on the sofa with a good book in hand, this book, "Cape Cod Summer," will please you. The author wrote the book just for the sofa-traveler. It gives a day by day account of what you can see and do by traveling all around Cape Cod. Eleanor Early knows her subject well, having lived there and she writes in a lively manner.

She has chapters on Old Houses, Burying Grounds, Whaling, The Pleasant Town of Provincetown, Hotels, Eating Places, Antiques, Food. She gives accounts of old shipmasters, their homes, their families, the old-time natives and favorite recipes of Cape Codders. She makes you want to go there and what more can one ask.

Cape Cod Summer is published by Houghton Mifflin Company, New York City. Price \$3.

### The Mature Mind

"The Mature Mind" is considered one of the best and most readable books of recent years on the subject of applied psychology. It is published by W. W. Norton and Company, Inc., New York City. Cost \$2.95. Order thru your bookstore or direct from the publisher. Your public library may have the book on its shelves.



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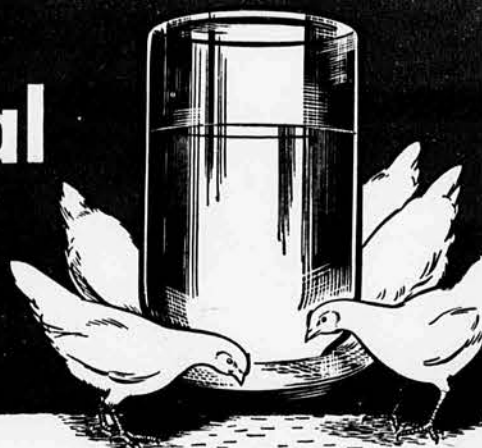


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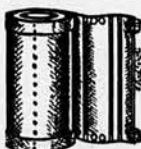
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Says this  
NEBRASKA FARMER



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## An Easier Way to Hoe the Garden

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



**D**O YOU enjoy tending the garden? In the shift from horse power to tractor power in farm operations I find many gardens without any very good means for summer cultivation. It has come to be a hand job. As a result the garden is often a neglected area by midsummer.

A wheel hoe is a practical answer for this problem. Wheel hoes are available in many different styles and come with several attachments. Considering the years of good service that can be had with this useful tool, an investment in one is well worthwhile.

As a rule, a rotary hoe style cultivator is not too expensive and most any member of the family will enjoy using it. It will save a lot of time as well as many crops. You will receive some pleasure in the job since you can work close to the rows, often even over the rows to handle small weeds and break the crust before the seedlings are ready to emerge. In addition most of these rotary hoes have a cultivator that can be used when soil conditions do not favor its use the other way.

### Come in Mighty Handy

There are many other styles of hand cultivators and for some jobs they come in mighty handy, for example as in marking out and opening the rows. Some models have a seeder attachment that works quite well. For most gardeners finding the time necessary for tending it is more of a problem than getting it planted.

Still other garden equipment needed on many farms are a useful hand duster and sprayer. With all of this interest in use of weed sprays, all families need to reserve one sprayer solely for this purpose. Using the same one for both weeds and bugs and diseases will often be an expensive mistake. It may well be the cause of the new look noticed on many garden crops the last few years.

Hand dusters come in many sizes and shapes. A style very convenient to use has a pint or quart Mason-type glass jar to hold the dust. This has many advantages. You will know whether you have any material left in the jar with-

out having to take it apart. You may have more than one mixture you use. With this quick-type attachment you do not need to dump out what is left to reload the duster with this other mixture. Just take off one jar, put on a lid, pick up and attach another jar that has what you need in it and go on about the job. Select a model that has a long nozzle. Many bugs are on the lower side of the foliage. Try to get the dust in contact with them.

For the average farm garden a large, expensive hand duster is not needed. A little graphite used on the plunger rubber occasionally will take care of the musical squeak too often noticed in the operation of the hand duster. In addition to owning a duster, learn to use it regularly, if possible, before you need to. You will enjoy your garden work much more that way.

### Clean Sprayers Well

There are even more styles of sprayers than dusters. For many jobs, a 1- or 2-quart model will do the work. However, when you consider the wide number of uses that can be made of spray equipment around the farm, a 2½- or 3-gallon compressed-air type sprayer has several advantages. For once you have it ready loaded and pumped up you can treat quite an area before pumping it up again. More care in cleaning up these sprayers after they are used will give you much more service.

Last but certainly not least in the list in importance is a good hand hoe. Some days I see hoes hanging on the garden fence that would cause me to lose all interest in using them. Even the handles do not look good and in taking hold you find they are rough and plenty full of splinters. Worse yet the blade is often extra large and would work much better in mixing cement. A small-bladed hoe does a much better job around small seedlings close to the plants in the row. A lightweight hoe that feels good in your hands and has a good angle and balance to it will give pleasure to the time you spend in hoeing by hand.

## Here Are Feeding Results Reported on Feeders Day

**M**ORE than 4,000 persons drove to Kansas State College campus, Manhattan, for the 37th annual Livestock Feeders Day, May 6. It was the largest crowd ever to attend a feeders day at the college.

Many feeding and grazing management studies were reported on by members of the animal husbandry staff. **KANSAS FARMER** earlier reported on the lamb feeding experiments (at the Garden City branch station). Here, then, are highlights from experiments on beef and swine at the college station:

1—Feeding 3 pounds of soybean pellets a head daily from July 18 to October 10 to steers on bluestem pasture did not pay in 1949.

2—Two-year-old steers grazed on bluestem pasture stocked at the rate of 4 acres a head, gained 244 pounds per steer in 1949; those on pasture that were deferred and rotated, gained 221 pounds per steer, while those on pasture stocked at rate of 3½ acres per head, gained only 219 pounds per steer.

3—Heifer calves fed 2½ pounds of 17 per cent protein dehydrated alfalfa pellets per head daily, gained only 1.17 pounds per head daily, which was considerably less gain than produced by feeding 1 pound daily of either solvent extracted cottonseed meal or soybean pellets in a wintering ration including 2 pounds of corn.

4—Four pounds of corn daily added to a wintering ration of prairie hay and 1 pound of soybean pellets caused steer calves to gain nearly ½ pound more per day over calves fed only

prairie hay and the soybean pellets.

5—Heifers fed 1 pound of either cottonseed meal, soybean oil meal or linseed meal, gained more than those fed either dehydrated alfalfa pellets or dehydrated brome grass pellets.

6—Yearling heifers full-fed corn on brome grass following the winter period did not gain as rapidly nor finish as well as heifers full-fed in dry lot. Carcasses of dry lot heifers also graded higher.

7—The same held true for dry lot fed heifers compared to those full-fed on bluestem grass.

8—Red clover dehydrated pellets fed as a protein supplement in a wintering ration for heifer calves also proved unsatisfactory.

(Continued on Page 29)

### Honeybee Culture

For persons who now own bees, or those who plan to begin beekeeping, we recommend a recently published circular by the USDA. It is "Information About Bee Culture," No. E-276. Among some of the subjects in the 10-page circular, are: lists of publications on bee culture; bee supply houses; advice to beginners, and important points to be considered in bee culture. For a free copy of this publication, please address Farm Service Editor, Kansas Farmer, Topeka.

9—Two-thirds of a pound of gain per head daily was made by steers on dry bluestem pasture supplemented with 2 pounds of soybean pellets per head daily. Four pounds of soybean pellets fed every other day, or 7 pounds of alfalfa hay fed per head daily, or self-fed soybean oil meal and salt mixture brought daily gains of from 1/4 to 1/2 pound. The salt was mixed with the soybean oil meal to limit its consumption and make it possible to self-feed. The mixture was made of 100 pounds of soybean oil meal to 35 pounds salt.

10—Steer calves wintered on dry bluestem pasture and fed 2 pounds of soybean pellets a head daily gained 3/4-pound daily from November 25, 1949, to April 15, 1950. Steer calves wintered in lots on prairie hay or sorghum silage plus 1 pound of soybean pellets daily, gained slightly more than a pound a day.

11—There was little difference in gains between steer calves wintered on silage and 1 pound of soybean pellets

of cottonseed meal and salt consumed 2.81 pounds of cottonseed meal and 0.88 pound of salt daily, and gained 51 pounds.

15—Ground Martin, Westland, Midland and Colby milos showed up well compared to corn as swine-fattening feeds. In one test, Midland and Westland milo-fed pigs made better gains than those fed corn and at less cost per 100 pounds gain. In another test, Westland-fed pigs outgained corn-fed pigs, but at slightly higher feed consumption per 100 pounds gain. Poorest gains and lightest costs were with the Colby and Martin-fed pigs.

16—Where limited feeding of tankage to pigs being self-fed shelled corn on alfalfa pasture was tried, it was found that pigs gained efficiently on a full-feed of corn and alfalfa pasture without protein supplement after they weighed 100 pounds. But, that the daily gains were reduced. Results indicated that if maximum gains are desired the protein supplement should be full-fed thruout the fattening period, or at least until hogs weigh 150 pounds.

17—Hogs on full feed in summer on pasture gained more rapidly and at less cost when provided a wallow.

18—Two experiments on cross-breeding swine, using a Minnesota No. 1 boar on Duroc and Poland sows, showed no conclusive advantage in gains and feed consumption over pure-breds used as controls.

19—Some advantage was found last winter in substituting sorghum distillers dried solubles for part of the protein supplement for fattening swine. Best results were obtained where the distilled solubles replaced tankage in the mixture.

20—You can tell by looking at a calf whether it will do well in the feed lot. This has been shown in tests conducted at Manhattan for the last 3 years. Calves were sorted on differences in body capacity, chest room, muscling, and general appearance. Both lots were fattened on the same kind of feed, consisting of ground corn, protein supplement, and silage, and marketed at the same time.

**Gained 49 Pounds More**

Results the first 2 years showed that those selected for more efficient production of beef gained 49 pounds more per head, utilized more roughage and required less grain, had carcasses that graded higher, and returned \$20 more profit per head.

Results this last year indicate that the amount of fleshing carried by the calves at the start is an important factor in feed lot performance. Calves that were in somewhat better condition at the start required more feed per 100 pounds gain, sold for \$1 more per hundredweight, produced higher graded carcasses, made practically the same rate of gain, returned \$3.60 more profit per head.

**Planning a Bathroom?**

Whether you are planning a new bathroom in an old house, or build-everything new, it is well to be sure it fits the family's needs. A USDA publication that will help you in these plans is "Your Farmhouse . . . Planning the Bathroom," No. 638. This 16-page booklet goes into detail on the subject suggesting practical ideas and is well illustrated. Price 10 cents. Please address your order to Kansas Service Editor, Kansas Farmer, Topeka.

and those wintered on prairie hay and soybean pellets. Daily consumption of silage per head was 28 pounds while hay consumption was 12 pounds.

12—Over a 327-day period steers allowed free access to salt gained 65 pounds more than steers not having access to salt. During the winter of 1949-50 steer calves with free access to salt gained 1.26 pounds a head daily, while those allowed no salt gained only .65 of a pound daily. The amount of feed required to produce 100 pounds of gain almost doubled when salt was taken out of diet.

13—On the basis of total gain, selling price, and carcass grade, the winter feeding of 2 pounds of corn daily to heifer calves was not justified last year where the calves were wintered, grazed and then full fed. In previous tests the additional corn in the winter period appeared desirable.

14—From December 1, 1948, to May 1, 1949, yearling steers fed 1 1/2 pounds of soybean pellets per head daily gained 26 pounds, while steers fed 6 pounds of alfalfa hay or 3 pounds of soybean pellets every other day, gained only about half as much. Steers self-fed a mixture



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**In National Milking Shorthorn Sale . . .**

**Kansas Rates High**

**A** NEW record price for a female Milking Shorthorn was set at the National Dedication Congress Sale in Springfield, Mo., April 25. The price was \$5,600. It was paid by L. M. Brooks, Mystery Farm, Hope, Rhode Island, for Lilydale Dagny Pride, bred and consigned by Dr. J. L. Johnston, Springfield.

This 5-year-old cow held true to the dual-purpose idea espoused by Milking Shorthorn breeders. She was definitely beefy in type. At the same time she had set a record of 305 pounds of butterfat and 7,568 pounds of milk as a 2-year-old.

Second high-selling cow in the sale, Duallyn Katherine, was consigned by Gordon L. Janssen, Bushton. This coming 5-year-old was purchased by Locke Theis, Dodge City, for \$1,750. Mr. Theis, who has a 100-cow herd of Milking Shorthorns in Clark county, near Englewood, was one of the heaviest buyers in the sale. He purchased 6 animals at an average of \$1,287. Also included in his purchases was the third high-selling cow in the auction, Promoter's Buttercup, consigned by Mr. and Mrs. C. R. Mace, Garnett.

**New Headquarters**

The new \$65,000 headquarters building of the American Milking Shorthorn Society, located on the outskirts of Springfield, was dedicated the preceding day during a special ceremony. The building is ultra modern in design. A wide overhang protects the large amount of glass surrounding the new office building. A majority of interior work can be done by natural lighting, yet no direct sunlight will shine into the offices.

Perhaps most outstanding factor in locating the new headquarters nearer the center of the nation is that a move has been made out to cattle country. Headquarters has moved west to meet the cattle.

The American Shorthorn Association has been located in Chicago for about 100 years. For some years there has been a pedigree difference between Shorthorns intended for beef and milk. But only 2 years ago the American

Milking Shorthorn Society was organized as a separate group. There are now about 7,000 members of the Society.

Dedication proceedings April 24 were followed with a banquet on the campus of Drury College in Springfield. Practically every state in the Union was represented at the 2-day event.

Kansas cattle competed well in the all-female sale. The 9 head sold averaged only a few dollars below the all-sale average of \$798.98. Six of the Kansas offerings returned to Kansas. The remaining 3 went to Ohio, Colorado and Arkansas.

At the same time Kansas buyers purchased 14 head. In addition to the 6 Kansas offerings returned to Kansas, 3 came from Iowa and 3 from Wisconsin, and 1 each from Texas and Missouri.

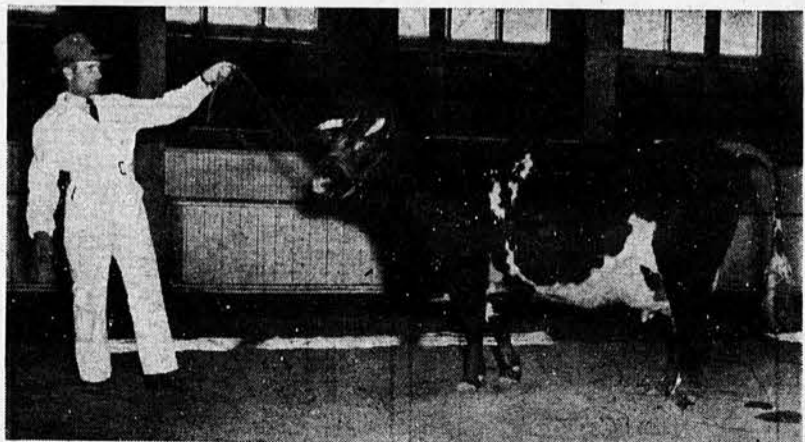
(Continued on Page 31)



**HEAVY BUYER:** Locke Theis, Dodge City, made 6 purchases in the national sale. Five were among 11 high-selling cows.



**AFTER THE SALE:** C. R. Mace, Garnett, completes milking Promoter's Buttercup shortly after she sold for \$1,600 at the national sale. She brought the third highest price. Mr. Mace has room for only a couple of cows on his small tract on the edge of Garnett. But he likes his cows good.



**SECOND HIGH COW:** After selling for \$1,750, Gordon L. Janssen, Bushton, holds Duallyn Katherine for a picture. Most Kansas breeders placed this cow closer to the high-selling cow than the price indicated.



**TRACTOR**

**Kansas Dealers**

- ABILENE—Cruse Tractor Co.
- ANTHONY—Williams Tractor Co.
- ASHLAND—Fellers Motor Co.
- ATCHISON—Touslee Tract. & Impl. Co.
- BELLEVILLE—Rooney Impl. Co.
- BELOIT—Fuller Equip. Co.
- CIMARRON—Layman Farm Supply
- CLYDE—Feight Farm Equip. Co.
- COLBY—Northwest Distr. Co.
- COLDWATER—Coldwater Motor Co.
- COUNCIL GROVE—Wood-Riley Impl. Co.
- DENTON—Whitmore Tr. & Imp. Co.
- DIGHTON—Welch Motors
- DODGE CITY—Ark. Valley Impl. Co.
- EL DORADO—McClure Tractor & Impl. Co.
- ELLSWORTH—Johnson Farm Equip. Co.
- EMPORIA—Owens Tractor & Impl. Co.
- EUREKA—Bush Tractor & Impl. Co.
- FLORENCE—Roberts Machinery Co.
- GARDEN CITY—Burtis-Nunn Impl. Co., Inc.
- GRAINFIELD—Shaw Motor Co.
- GREENLEAF—Nelson Bros. Mach. Co.
- GREAT BEND—Shumacher Farm Equip. Co.
- GREENSBURG—Gupton Motor Co.
- HADDAM—Rooney Motor Co.
- HAYS—Drelling Impl. Co.
- HIAWATHA—Rite Way Farm Equip. Co.
- HILL CITY—Lewis Motor Co., Inc.
- HOISINGTON—Robbins Equip. Co.
- HOLTON—Bottenberg Impl. Co.
- HOWARD—Bryan Tractor & Impl. Co.
- HUGOTON—Hugoton Tract. & Impl. Co.
- HUTCHINSON—Chas. A. Rayl Impl. Co.
- JAMESTOWN—Elniff Motor Co.
- KINGMAN—Staley Tractor Co.
- KINSLEY—Walters Tractor & Impl. Co.
- KIOWA—Lawson Tractor & Impl. Co.
- LaCROSSE—Luft Implements
- LARNED—Twin Feed Machinery Co.
- LAWRENCE—Biesby-Banning Tractor & Impl. Co.
- LEAVENWORTH—Boling Tractor & Impl. Co.
- LEONARDVILLE—John Stafford Motor Co.
- LIBERAL—Southwest Tractor & Impl. Co.
- LINCOLN—J. G. Miller Motor Co.
- LUCAS—Lucas Equip. Co.
- LYONS—G. C. Schumacher Impl. Co.
- MANHATTAN—Saroff Tractor & Impl. Co., Inc.
- McPHERSON—Callendo Tract. & Impl. Co., Inc.
- MARION—Midwest Tract. Sales & Serv.
- MARYSVILLE—Anderson-Boss Impl. Co.
- MEADE—Wolfe Motor Co.
- MEDICINE LODGE—Sprout Tractor & Impl. Co.
- NESS CITY—Roth Beutler Tractor Co.
- NEWTON—Astell Implement Co.
- NORTON—Bennett Motor Co.
- OAKLEY—Shaw Impl. Co.
- OBERLIN—Kump Motor Co.
- OLATHE—Perrin Machinery Co.
- ONAGA—Wentz Tractor & Impl. Co.
- OSAGE CITY—Osage Motors, Inc.
- OSBORNE—McCammon Tract. & Impl. Co.
- OTTAWA—Price Impl. Co.
- PAOLA—Tom Crawford Tractor & Impl. Co.
- PLAINVILLE—Plainville Impl. Co.
- PRATT—Rollmann Tractor & Equip. Co., Inc.
- RUSSELL—Russell Tractor & Impl. Co.
- SALINA—Kansas Tractor Sales Co.
- SEDAN—Wall Tractor & Equip. Co.
- SENECA—Wentz Farm Supply
- SMITH CENTER—Jones Tractor Sales & Service
- TESCOTT—Miller Motor Co.
- TONGANOXIE—Laming Tractor & Impl. Co.
- TOPEKA—Shawnee Tractor & Impl. Co.
- VALLEY FALLS—The Modern Tractor & Impl. Co.
- WAKEENEY—Midwest Marketing Co.
- WAKEFIELD—Brougher Trac. & Impl. Co.
- WAMEGO—Wamego Tract. & Impl. Co.
- WASHINGTON—Bill Seitz Imp. Co.
- WELLINGTON—Sumner County Tract. & Impl. Co.
- WICHITA—Taylor Tractor Co.
- WINFIELD—Stuber Tractor & Impl. Co.

**K C TRACTOR & IMPLEMENT CO., Inc.**

1340 Burlington, N. Kansas City, Mo.  
Distributor for Kansas



**FARM EQUIPMENT**

Those figures alone prove that Kansas Milking Shorthorn breeders like their own type of cattle. Actually the feeling was even more intense than that summary shows. For the most part western breeders are intent on retaining the dual-purpose qualities of Milking Shorthorns. They want both meat and milk. Some of the eastern and southeastern breeders seem to lean more to the narrow, rangy type of cattle. Altho the rangy type of cattle being offered were going at high prices, Kansas breeders did not dip into that market. For the most part they were buying cattle that had milk producing potential and at the same time could stand in a beef herd.

Altho admittedly a difficult job, it appeared that Kansas breeders remained intent on breeding both milk and meat production potential into their herds. They know what they want and plan to stick to it.

**Going Fishing?**

A new edition of the book, "Fishing—What Tackle and When," has just been published by South Bend Bait Company. The book's 88 pages contain fishing tips, tackle hints, Skish rules and regulations, instructions for bait and fly casting, and there are full-color illustrations of 37 species of fresh and salt-water fish. There is also an up-to-date record of all record-breaking fresh and salt-water fish taken on rod and reel. Anyone interested in the sport of fishing will enjoy having and reading this little book. A copy of it will be sent free upon request to Farm Service Editor, Kansas Farmer, Topeka.

**Poultry Profit**

Gross U. S. poultry farm income for 1949 was 3.2 billion dollars reports the U. S. Department of Agriculture. This is 2 per cent less than the 1948 record. Total income was broken down into 66 per cent from eggs, 21 per cent from farm chickens, and 13 per cent from broilers.

About 1.9 billion pounds of chicken meat were marketed, compared to 36 billion pounds of slaughtered livestock and 119 billion pounds of milk sold in 1949. Liveweight average farm price for poultry meat was 25.7 cents, against 19.9 cents for all beef and 18.5 cents for hogs on the same basis per pound. So, poultry doesn't seem to be doing too badly compared to other meats.

**Milk Advantage**

If Kansas dairymen expect to develop out-of-state milk markets they must be sure milk is available for sale when there is a demand for it. The demand is during fall and early winter.

Spring surpluses are hard to move into new market channels, since other market areas usually have surpluses of their own, reports George W. Gerber, Kansas State College extension marketing specialist.

A recent report from New York state, says Mr. Gerber, shows that cows freshening in the fall gave a 1,210-pound milk advantage over cows freshening in the spring.

**Guide for Parents**

There have been many books and articles written about the infant and about the preschool age, but little, comparatively, has appeared about children 6 to 12. If you have children of those ages, we feel sure you will find much of interest and help in the authoritative book, "Your Child From 6 to 12."

The author is Mrs. Marion L. Faegre, written under direction of the Division of Research in Child Development. Some of the subjects are: "What 6 to 12-year-olds Are Like," "How Family Life Is Different Today," "What Play Means in the Life of a Child," "Everyday Problems," "Children and Money," "Developing Wholesome Sex Attitudes," "Keeping Your Child Healthy," "Growth in Middle Childhood." For a copy of this book, please address Farm Service Editor, Kansas Farmer, Topeka. Price 20c. Your order will receive prompt attention.

Dearborn Mold-board Plow. Gives you clean, even-depth furrows, with trash well covered. Lifts, lowers by Ford Tractor Hydraulic Touch Control.

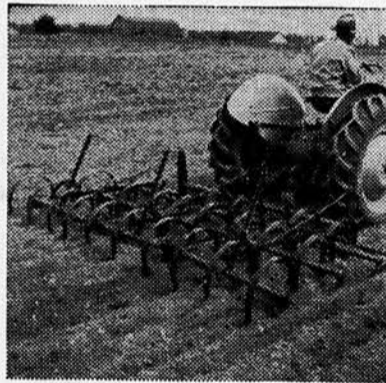


Put your Seed to Bed in  
*good* **SEED BEDS**  
made with the **FORD TRACTOR** and  
**Dearborn PLOWS** and **HARROWS**

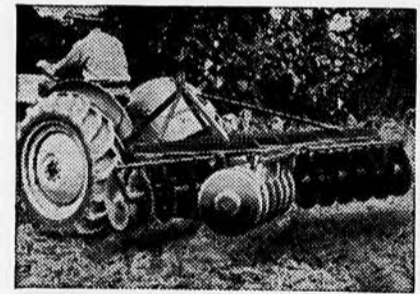
Good yields depend on good stands, so put your seeds in beds that give them the best chance. Dearborn Plows and Harrows for the Ford Tractor are designed right, built right to make the best possible seed beds. But that isn't all by a long shot!

Seed beds are made *on time* because plowing, discing and harrowing go much *easier* and *faster*. Dearborn Triple Quick-Attaching Implements and Ford Tractor Hydraulic Touch Control give you extra speed to beat the calendar. You'll probably have planting done well ahead of neighbors—unless they, too, know the secret of making good seed beds fast with the Ford Tractor and Dearborn Implements.

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Dearborn Lift Type Spring Tooth Harrow. No hauling or dragging to field. Ford Tractor Hydraulic Touch Control lifts it for transport, turning or backing. Spring teeth flip weeds out and dodge roots and stones, leaving a fine seed bed.



Dearborn Lift Type Tandem Disc. Ford Tractor Hydraulic Touch Control lifts it for fast transport, turning, backing, and crossing soft spots or grassed waterways. Better leveling, due to rigid frame.

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by your **Ford Tractor** dealer...



To make farming easier and more profitable, try the Ford Tractor with these, and other, Dearborn Implements. Ask your nearby Ford Tractor dealer now for a demonstration, without obligation.

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MEANS LESS WORK...  
MORE INCOME PER ACRE



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Tests by an independent testing laboratory prove conclusively that Eagle Drinking Water Bags keep water from 15' to 20' cooler than jugs, kegs or jars.

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World's foremost irrigation authorities explain latest methods. Written by Dr. O. W. Israelson, Irrigation Consultant, Engineer, Utah State College and Prof. O. W. Monson, Agricultural Engineer, Montana State College. Send for this Free Book today.

Eagle Irrigation Dams are Ready-Made in all sizes. Rot-Resistant. Water-Repellent.

AT HARDWARE AND FARM STORES

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# Now That You Have Electricity

By CHARLES HOWES



AS SPRING makes itself more apparent, meaning summer is just around the corner, the significance of refrigeration begins to make its year-around importance more apparent. Size of refrigerators is getting larger, indicating family use of such devices is increasing, that dependence on cooling and freezing assumes added importance every day.

Development after development has come forth in refrigerators since the end of the war released manufacturers to do as they wish, the latest of which is a refrigerator that automatically defrosts whenever the door has been opened 60 times. The manufacturer, Westinghouse, avers opening the door and admission of warm, moist air is what causes frost. The water which results from the defrosting operation is automatically disposed.

At various home shows this spring the writer was intrigued, quite naturally, by a working model of an electric device that opens or closes the garage door, turns garage lights on or off, locks the door, and can be controlled from within the car. It is suitable for all sectional overhead types of doors and swinging types, can be adapted to certain others, and consists of an electric motor and such equipment as is needed to cause door action. Push buttons control the motor from points within the house or garage. Remote control from within the car is achieved thru an electronic device under the hood and a receiver near the motor. Many damp, cold times do we recall that this gadget would have been worth its cost.

Speaking of warm weather, ads in trade and consumer magazines are showing fans of numerous shapes, sizes, colors and specifications. There are window fans, hassock fans, exhaust fans, circulating fans, floor, ceiling and desk fans, attic fans, furnace fans (can be used for cooling), and someone has coyly suggested that baseball fans fit into any remarks about summer. Unusual, perhaps, is the fan which incorporates 3 of these features into one unit: a verticle fan for cooling, a horizontal fan for circulating, or an exhaust fan (run in reverse). Something to think about.

We're singularly proud when a Kansas manufacturer comes up with a piece of equipment. Such was the feeling upon viewing a new electric dishwasher idea introduced by James Manufacturing Company, of Independence. The completely automatic, portable machine washes and rinses in 7 minutes, then dries by radiant heat obtained from the washing process.

It is not exactly timely and will bear repeating next fall, but the writer saw a neat application of heat lamps in pig brooding early this spring at Park Place Farm, in Walnut Valley, south of Douglass in Butler county. Park Salter and Harold Thiel installed 5 such lamps in farrowing pens, having lost more than half of the pigs in 2 litters from cold. They credit a good many lives saved by these lamps and still were using them in April to offset night coolness. The main success, of course, came at farrowing time when a large area was kept safely warm until the young ones had time to dry.

Newest idea in electric ranges combines all features of electric cooking with a room heating section that burns oil, wood or coal, an oven that uses any of the fuels—and it also can provide plenty of hot water. It's a Majestic combination and we are quoting from recent printed literature. A home without a central heating system apparently can now enjoy benefits of electric cooking plus the great warming ranges that kept things glowing.

Did you ever think one of these electric vibrators such as barbers use to relax neck and back muscles of their customers might be a useful item in the home? More than once have such stimulators been applied to tired feet—and what could be more soothing than some means of relaxing after putting in time on a tractor?

There still are occasions when children are able to insert metal or other conductor into convenience outlets in the home and suffer shock or burn as a result. At least 2 companies have an answer to this in the form of protectors that snap into the outlets and prevent childish curiosity from causing grief. The protectors are made of plastic, are the same color as the outlet plate.

The new 5-million-dollar plant which Kansas Power and Light Company is installing at Hutchinson to supply more power to much of Central and Southern Kansas is expected to be completed by October 1, according to company officials.

An electric hedge trimmer, an ideal gadget for keeping landscaping in order, is another spring item in the power field. The device is supposedly excellent for trimming around edges of lawns, near trees and houses where a lawnmower cannot reach, as well as serving the use for which it is named.

A least 2 companies, according to our information, have put clothes dryers on the market which operate from a standard 115-volt home circuit. Heretofore, such equipment mostly required 220-volt systems, usually a matter of special installation. Now, however, this useful piece of home laundry equipment plugs in anywhere and performs comparably with the higher-powered model. Both Westinghouse and Frigidaire have brought this to our attention.

It isn't necessary to throw away an appliance just because the cord is worn out. Most electric dealers stock a cord set with an adjustable plug.

Here's an idea for an insomniac, a new way to relax when sleep is difficult. A film or slide projector can be rigged to show your favorite pictures, or even your favorite reading material, on the ceiling above the bed. There are no books or magazines to hold and the scenes can be shifted by means of a remote control cable. Such equipment already is being used in hospitals.

Another item for the small tenant house or shack with a minimum of space in the kitchen is a combination range and refrigerator contained in 21½ by 27½ inches of floor space. It also features a vegetable bin.

We mentioned last year experiments in dehorning calves by electric means. Only now have we seen a photo or a notice that equipment for that operation is on the market. A Michigan firm, Mims & McKee Company, sent us the photo early this month and remarked that their new instrument assures positive results. The method, they say, causes less pain and does not expose the animal to disease or infection, hence does not require segregation. Power comes from 110-volt circuits and the dehorner draws 200 watts.

### Water Help

If you are planning a home water system, you know in order to get the most good for least cost of operation you must have the right size pump, tank, and system to do the job you want.

To help you in understanding how to select proper equipment, Peerless Pump has compiled a booklet (well illustrated) that will be a big help to you. This booklet will be sent to you free upon request. Just write Farm Service Editor, Kansas Farmer, Topeka, Kan., and ask for the booklet, "Hydro-Pneumatic Pressure Systems."

### Harvest BIGGER YIELDS FROM SMALL GRAIN AND BEAN CROPS

• HUME Pick-Up REEL harvests ALL the crop, standing or down-tangled, long or short straw—reduces shattering, clogging. Fits every combine.



Write for complete information

**H. D. HUME CO.**  
MENDOTA 28 ILLINOIS

see FAIRBANKS MORSE pg 16

**NONKEN PLUMBING COMPANY**  
Peabody, Kansas

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**NATIONAL Vitrified SILOS**  
Everlasting TILE

Cheap to install. Trouble Free. Also Tile Stave Silos. Outside Reinforcing.

**NO** Blowing in Erect Early  
Blowing Down Erect Early  
Freezing Immediate Shipment

Rowell Roller Bearing Ensilage Cutters. Write for prices. Special discounts now Good territory open for live agents.

**NATIONAL TILE SILO COMPANY**  
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STATE SIZE WANTED KANSAS CITY 15, MO.

**Saves WORK! Saves CROPS! Saves TIME!**

**THE AMAZING SIDE-DELIVERY**

# ROTO-RAKE

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**Now in Use in 42 States, Canada and Cuba.**

**It's sweeping the nation.**

Here's good news for farmers who harvest rakable crops! ROTO-RAKE, the modern, heavy duty, speedier rake, saves you lots of time and hard work. Does a faster, cleaner job on any rakable crop . . . light or heavy, wet or dry.

ROTO-RAKE makes windrows at higher speeds on rough, smooth, or terraced ground. Rakes swaths 4 to 9 feet, as desired. No gears or power take-off.

Costs \$30.00 less than last year. Saves its cost in a hurry!

**See your dealer or write today for free folder.**

**Automatic Industries, Inc., P. O. Bx. 482, Olathe, Ks.**



# Have you heard—?

## Notes on New Products of Interest to Farmers and the Folks Who Make Them

FROM the hay and dairy country of Wisconsin comes a construction idea that offers some features worth examining. For barns, poultry buildings, storage buildings, garages, workshops, hog sheds or any others, Unit Structures, Inc., of Peshigo, Wisc., is making laminated rafters, each a continuous member from foundation to roof ridge. In a barn, the makers claim it permits exceptionally large hay storage without bracing, and for all buildings the frame provides strength, utility and Gothic beauty.



Popularity of steel buildings leads us to note that Great Lakes Steel Corporation has, thru its Stran-Steel Division, announced a new economy building. Called the Quonset 24 Special, the steel, arch-rib structure has an inside width of 24 feet. Its length varies in multiples of 12 feet and it is styled with one straight side.

DuPont, known officially as E. I. DuPont de Nemours and Company, Inc., of Wilmington, Delaware, is marketing lawn grass seeds in galoshes and overcoats. The coatings actually are an organic sulfur compound that protects the seed surfaces from cold, dampness and soil fungi thus preserving the energy required to develop healthy lawn plants. According to their word, only a small fraction of seeds in a pound of mixture ever produce plants. Most of them apparently rot before a sprout can develop. DuPont tests on this new "wrap" show considerable improvement in the health of plants.

Folks in Eastern Kansas will be interested in the announcement of an appointment made by Formula Feed Mill at Fort Scott, Kan. This division of Flour Mills of America will be managed by W. F. Allison, an experienced hand in the formula feed business since 1935. Allison, his wife and 2 children are making their home in Fort Scott.

Reaching the market is a strip tray, a 4-compartment device into which samples can be taken from all 4 quarters of the cow's udder. The manufacturer, LaRay Manufacturing Co., of Pataskala, Ohio, claims it has a definite advantage in detection of mastitis. The specially-shaped black plastic bottom of each compartment facilitates a preliminary inspection that usually will reveal any difficulty. Each compartment is labeled, and a dip in cold water readies the equipment to test the next animal.

An item for dairymen comes from an outfit which claims to have the world's largest manure spreader. Manufactured by makers of the Cobey farm wagon, Perfection Steel Body Company of Galion, Ohio, the unit has a 150-bushel capacity, especially suitable for large dairy farms. Perfection states such large capacity cuts down number of trips between barn and field by a third to a half. Spreader and shredder operation is from the tractor take-off. The load is carried on dual wheels of standard automotive size.



Something useful for Ford and Ferguson tractor owners comes to our attention. It is a tool box that can be installed on the fender without drilling. The mounting brackets use the same holes as the back fender brace, while the rear bracket comes already drilled to take care of the taillight, rear plow light and the license plate. The box is 2 feet long and permits a wide variety of equipment and a thermos bottle to be carried to the field. Automotive Stamping & Mfg. Co. of Detroit has named it the Asco Tool Box.

Home water systems sometimes are troubled with corrosion, lime scale and "iron water" cloggages in the same way as every other water system, and at least one company is offering help in the problem. Calgon, Inc., has introduced a new pump feeder for deep-well jets or shallow-well pumps which feeds a chemical "Micromet" into the water supply. The treatment keeps water clear and drinkable, together with resisting the tendencies toward the troubles mentioned. The company's home office is in Pittsburgh, Pa.

You probably have noticed a new washday product, Cheer, is being introduced with considerable flourish by Procter & Gamble. It seems the company set out back in 1931 to develop a product to eliminate the need of bluing, bleach or water softeners and at the same time do a laundering job along accepted lines—that is, it gets clothes clean. Apparently the laboratory men accomplished their objective, because the claims for this new product cover those 4 items together with the familiar no-rinse feature. Procter & Gamble also state the new detergent is ideal for windows, linoleum, rugs, dishes, woodwork as well as for dairy utensils.

The International Harvester Company branches thruout Kansas, together with truck dealers of the state, are joining hands with the National Vehicle Safety campaign. The venture is seeking to reduce accidents from mechanical failure by inspecting vehicles prior to the busy summer season. Points they recommend covered are: brakes, steering apparatus, wheel alignment, headlight focusing, operation of other lights and signals, windshield wipers, lubrication, springs, propeller shaft, exhaust system and tires.

A hydraulic milk scale for dairy farms is about to reach the market, according to information from the P. & L. Industries, Inc., of Williamsport, Pa. The scale can be hooked onto any milk pail or milking machine unit to weigh the milk of any individual cow on the spot with an actual lift of only a fraction of an inch. There are no springs, the pointer jumps immediately to the correct weight and settles.



Plans for a new factory to be constructed in Liberal were announced recently by M. H. Johnson, president of Independent Plow, Inc., of Neodesha. The factory will turn out wheatland disk tillage tools such as the company has been making, especially the Independent ROYAL One-Way. This model incorporates a hydraulic system for lifting and depth control. The Liberal factory will require more than 100 employees this year and several hundred thereafter, was Johnson's comment.

Farm women likely will be interested in a method of storing an electric iron. It is a metal holder that hangs on the broom-closet door and permits the hot iron to be stowed. The Sto-A-Way Company, of Aurora, Ill., is offering the device.

A note aimed at gardeners by United States Steel Corporation suggests that a little wire fence, ordinarily found as an ornamental flowerbed border, may be used to support tomato plants. Also, the note claims, the device helps to increase yields and quality since tests which have been made show the fence proved successful in avoiding destructive tomato rot. It is recommended that the 22-inch-high border should be inserted about 4 inches into the soil. Cut each section about 4½ feet long and surround the plant.



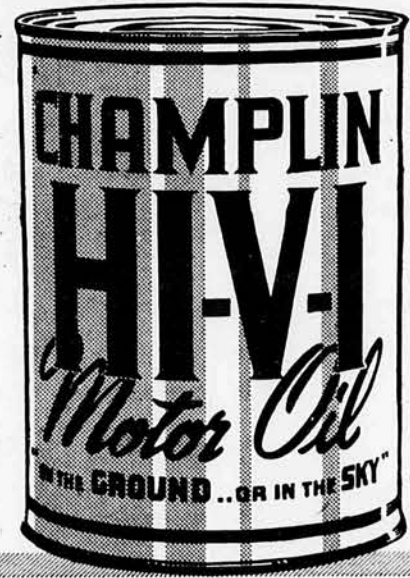
## AMONG IOWA FARM YOUTHS IT'S DELMAR DIERCKS

This 18 year old Mason City, Iowa, farm youth has completed 7 years of diversified projects in baby beeves, bees, pigs, horses and chickens. His beeves have won 14 blue ribbons and 4 purple ribbons. Delmar was the 1948 winner of the Beef and Pig Showmanship contest at the North Iowa Fair in Mason City, Iowa. Well known for his Square Dance calling, he was a member of his high school band. Delmar is now attending the Iowa State College, at Ames, Iowa.

## AMONG MOTOR OILS IT'S HI-V-I!

Delmar's father, David Diercks, uses HI-V-I motor oil exclusively in his valuable farm machinery! Mr. Diercks knows that VI-V-I is a dependable oil . . . dual-solvent processed with a cleansing detergent to remove carbon deposits that foul up engine performance! HI-V-I will stand up under the hardest grind . . . the quality is uniform . . . and it lubricates completely! HI-V-I has proved itself to outstanding farmers like Mr. Diercks! It stands up at freezing or boiling temperatures . . . cuts fuel consumption and costly repair bills. HI-V-I motor oil is the best lubrication buy for farmers!

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of Quality Petroleum Products  
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## EVERYTHING THAT MAKES GRAIN HANDLING EASIER AND CHEAPER

YOU GET IN FAMOUS **BAZOOKA** SPIRAL GRAIN LOADER  
(Pat. Pend.) Reg. U. S. Pat. Off.

- Sectional Tube Construction • Direct Flexible Shaft Drive • Instant Power Control from Engine Mounted Low • Quick Angle Adjustment
- Easy Transportation • Full Capacity Loads without Choking down.

These and other advantages such as best quality helicoid flighting, high speed sealed bearings top and bottom, adjustable motor mounts and adjustable carrier upright, assure your complete satisfaction with the Bazooka.

"Best on the Market," says a Nebraska farmer. "Couldn't ask for Anything Better," writes a Kansas owner. "Works Fine on All Grains," reports Ohio user. FREE CIRCULAR, low prices, on request. Write today.

THE WYATT MFG. CO., Inc., Dept. B-52, Salina, Kans.



Type B Bazooka (left), with idler drive . . . in 11-ft. truck unit or 16-ft. basic length with sectional extensions to 31 feet. Also operates vertically.

Type D . . . available on carrier for electric power.



Type C Bazooka (right) . . . for permanent installations or vertical electric motor operation. Economical and efficient. Lengths to 51 feet.

Moves up to 1500 Bu. Per Hour Without Cracking Grain.

Available in 16-ft. Basic Length with 5, 10, 15 ft. Extensions.

# FIRST AGAIN! MARION ANNOUNCES A NEW UNDERBODY HOIST

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1. One model fits all trucks.
2. 11-ton capacity under 13-foot bed.
3. Automatic hold-down.
4. 11-inch mounting height.
5. 3½ hour installation.
6. Full length sub frame reinforces truck chassis.

A hoist that fits all types of farm beds, and a metal sand and gravel bed conversion can be made in one hour without alteration—using the same hoist.

Write For Information—Or See Your Truck Dealer

### PERFECTION EQUIPMENT COMPANY

235 North Emporia Phone 7-3381 Wichita, Kansas

## High Man in Judging



KEITH SCHIRER, left, Newton, was high individual in all judging contests at the 27th annual state high school Vocational Agriculture judging and farm mechanics contest, May 1 and 2, at Manhattan. Schirer is being congratulated by his coach, R. M. Karns, Vocational Agriculture instructor at Newton. The Newton judging team also placed first in all judging.

## Vocational Agriculture

NEWTON Vocational Agriculture team, coached by R. M. Karns, was first-place winner in all judging contests at the 27th annual high school Vocational Agriculture judging contests held May 1 and 2, at Manhattan. Members of the winning team were Normal Deschner, Keith Schirer and James Vetter, with Lester Hensley as alternate.

Other top judging teams and coaches were: Clay Center, Ray Morrison; Smith Center, Charles Mantz; Stockton, Floyd Blauer; Newton, R. M. Karns; Cherryvale, C. H. Young; Washington, I. E. Peterson; Colby, R. B. King; Coldwater, L. E. Melia; Frankfort, Harold Frank; and Manhattan, J. W. Taylor.

### High Individual

Keith Schirer, Newton, was high individual in all judging. Others in top judging spots were Paul Pfizenmaier, Clay Center; Bill Schulthies, Cherryvale; John Brethour, Clay Center; Donald Bigge, Stockton; Richard Gartner, Coffeyville; George Daniels, Smith Center; Dale Clear, Frankfort; James Hefley, Columbus; and Bob Overmiller, Smith Center.

Clay Center, Ray Morrison, adviser, won the Agriculture Education plaque, with Smith Center second and Colby third.

### Earned Gold Emblems

The better chapter contest brought gold emblems to Beloit, Buhler, Chanute, Clay Center, Colby, Coldwater, Effingham, Haven, Hoxie, Lawrence, Little River, Shawnee Mission, Olathe, Stockton, Highland Park and Winfield.

Robert Ball, Garden City, won the finals in the public speaking contest, with Fred Magley, Jr., Bird City, runner-up, and Don Weixelman, Wamego, third.

Honorary State Farmer degrees were presented to D. L. Mackintosh, Rufus Cox, Tom Avery and C. D. Davis, all of Kansas State College, for their years of service in connection with the annual contests, and to Loren Whipps, of the vocational education office, for his work with the Future Farmers in Kansas.

In election of officers, the State Future Farmers elected Robert Ball, Garden City, president; Hugh S. Chantz, Winfield, vice-president; Duane Stoskopf, Great Bend, secretary, and Charles Kinast, Haven, treasurer.



ROBERT BALL, Garden City, won 2 honors at the 22nd annual State FFA convention held at Manhattan May 1 and 2. Robert was elected president of the Kansas Association of Future Farmers of America (1950-51) and also was winner of the State FFA public speaking contest.

Winning teams in various judging contests were:

Crops, Cherryvale; dairy, Emporia; animal husbandry, Beloit; poultry, Stockton; sharpening tools, Smith Center; farm power, Clay Center; soil conservation, Smith Center; concrete, Clay Center; welding, Downs; farm carpentry, Smith Center; farm machinery, Smith Center.

### Try Borate Fertilizer

Will fertilizer borate improve alfalfa in Greenwood county? Eureka Vocational Agriculture students hope to find out about it this year. On several farms in the area they plan to apply up to 40 pounds of borate an acre in small test plots in established fields of alfalfa. Borate will be tested in fields that have been limed, some that have been limed and phosphated and some fields that have received no other treatment. A report will be made on results.

### Handy Handbook

Every farmer has questions that arise daily. The "Farm Facts Handbook," published by Black, Sivalls & Bryson, Inc., a handy reference booklet, includes answers to many questions and practical, helpful advice. This handy-size booklet is durably bound in an attractive 3-color cover. In ordering a copy, please address Farm Service Editor, Kansas Farmer, Topeka. There is no charge.

### High-Quality Eggs

There is still a limited supply of the bulletin, "Producing and Marketing Quality Eggs in Kansas," for poultry raisers who are interested in this subject. The booklet is well illustrated and is written in easily understood language by M. E. Jackson and M. A. Seaton, KSC Extension specialists. For a copy of this circular No. 196, please address a post card to Bulletin Service, Kansas Farmer, Topeka.

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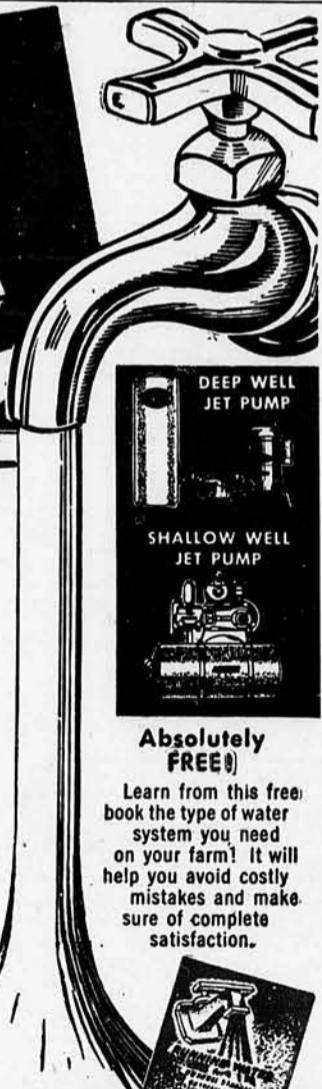
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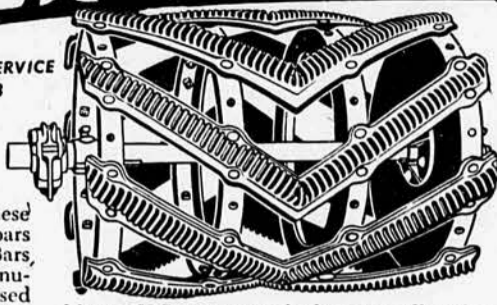


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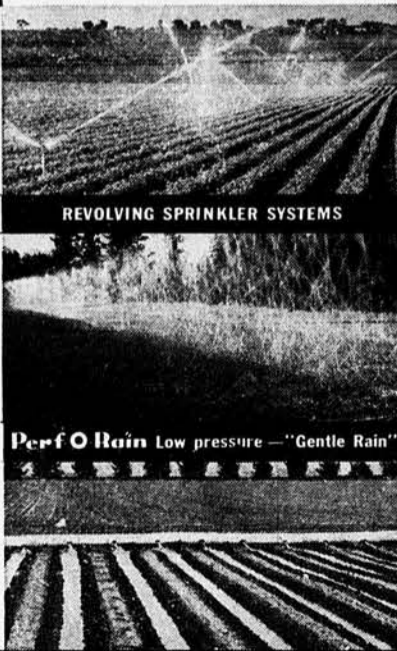
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## Striking Changes Seen

(Continued from Page 8)

grown in crop rotations, especially following cereal grains where it is used for hay, for summer grazing, or for seed production.

### Graze Young Animals Now

A striking change has taken place in type of livestock grazed on our commercial pastures. Fifty years ago steers shipped to Kansas for summer grazing were mature animals, many several years old. Today emphasis is on young, rapidly-developing animals and this has changed the pattern of grazing. The more mature steers grazed somewhat more uniformly, or perhaps this was only an apparent uniformity due to the greater stocking rates, but even those big steers sometimes left our pastures patchy.

The patchy nature of the dried vegetation led to widespread use of fire in pasture management. Furthermore, southwestern cattlemen who leased Kansas pastures were interested in obtaining as much early gain as possible. They deemed it necessary to burn off all old dry growth ahead of the grazing period, because they found when pastures were burned early in spring new growth of grass was more rapid for a few weeks at the beginning of the growing period. The custom of early spring burning thus developed, along with the development of the "commercial" grazing system so widely used in Kansas bluestem pastures.

Early burning left the ground bare and exposed to moisture loss thru runoff and thru evaporation during a relatively long period in the spring, however, and the end result was a decrease in total yield of vegetation. On the other hand, burning did encourage uniform grazing and, therefore, somewhat more efficient utilization than could be had in patchy, unburned pastures. It has generally been recognized that pasture burning encourages overgrazing during the spring period, and that it also tends to encourage soil loss by erosion. Furthermore, research at Kansas State College has shown early burning is far more harmful than late burning because of the greater loss of moisture thru runoff and evaporation. Thus there has not only been a decrease in the amount of pasture burning, but there has also been a tendency to burn pastures later in spring than was formerly the case.

### Now Use Fertilizers

Another practice that has recently gained in importance is fertilizing pastures. Use of commercial fertilizers in any considerable quantities is of fairly recent development. In certain leached soil areas, low in lime and phosphorus, farmers have recently found it beneficial to apply lime and superphosphate to native pastures, but in the limestone soils of the Flint Hills and farther west this is probably not the case. On tame pastures, however, application of nitrogen in the form of commercial fertilizers is now gaining importance. The great demand for Kansas grass seed, especially brome grass, stimulated research in production of both pasture and seed, and during the 1940's methods of application and the fertilizer requirements of brome grass pastures were studied in Kansas. As a result, it is now recognized that thru fertilization it is possible to maintain high productivity of both forage and seed in tame pastures.

### Can Harvest Grass Seed

Another great step forward in pasture practices has been development of harvesting and seeding methods for native grasses. Prior to the turn of the century, the U. S. Department of Agriculture had established a grass garden at Garden City, to study native and introduced forage species. Interest soon shifted to cultivated crops, however, and it was not until the great drought of the 1930's again focused our attention on the extreme need for re-seeding native grasses, that extensive research was resumed. Since the mid-1930's methods of harvesting and processing native grass seed have been developed so practically all of our native grasses, even those with light, chaffy seeds, can be handled on most farms and can be planted to give good stands and productive pastures.

The place of grass in erosion control and in improvement of soil has been studied and has been strongly emphasized in the press. Crop surpluses have pointed out the need for a shift from

cash cropping to livestock farming, and consequently a need for more pasture. Emphasis, however, has been on grass for some specific purpose, and we have generally failed to appreciate the grass itself.

We have failed to make it clear that where grass as a crop is managed for greatest efficiency of utilization and for maximum yields, all of those specific values, such as erosion control and soil improvement, will automatically be achieved.

### Better Grasses in the Making

This growing appreciation for grass as a crop has brought about a demand for better grasses and for more research information in the management of all grasslands. Grass breeding has assumed a role of major importance thruout the nation. In Kansas better strains of both native and introduced grasses are in the making. A few have already been distributed and are certified by the Kansas Crop Improvement Association. Among these are Hays buffalo grass, Blackwell switch grass, ElReno sideoats grama, and an improved strain of big bluestem.

Need for information concerning pasture management was recognized even earlier than the need for improved strains. As a result Kansas State College has been conducting grazing trials on native pastures since 1915.

It has been shown that if native grasses are to be maintained in a vigorous and productive condition, grazing methods must fit their growth needs and growth requirements. Extreme importance of maintaining native grasslands is generally recognized. On most of the 20 million acres of Kansas permanent pastures, these native grasses are the only fully-adapted vegetation, and should they be destroyed or depleted, the entire producing capacity of the land will be lost.

To this end grazing research has been carried out. It has been shown that grasses, like all other green plants, manufacture their foods in the green leaves. Excess foods, when ample top-growth is present are stored as reserves in the roots. These food reserves then provide energy to start spring growth the following year. Should food storage be prevented by close grazing, gradual depletion will result from starvation, because the plants will not manufacture food unless an ample leaf surface is allowed to remain.

But it also has been shown that heavy stocking can be practiced if sufficient spring protection is given to permit the growth of a large, leafy plant before grazing starts. Thus we can either defer the grazing in the spring or reduce the season-long stocking load to a rate which is compatible with growth needs of the forage. Excellent native vegetation may thus be maintained.

### What About the Future?

What may we expect in the future? First, the growing appreciation of pasture as a crop will bring about a better understanding of the growth requirements and growth needs of pasture plants by farmers and by the public.

Biggest field for pasture improvement lies in management of existing pastures, these 20 million acres already in permanent grass sod. To bring about better utilization of pastures it will be necessary to develop plans for year-around grazing. This will mean increased use of supplemental pastures such as sweet clover, the cool-season perennial grasses, and the cereal grains to extend the pasture season into the fall, winter and spring. Use of these cool-season pastures also will permit protection of native grasses during their critical spring-growing period.

Growing appreciation for pasture as a crop will bring an ever-greater demand for more knowledge, and this can be had only thru research. It will bring about an increasing demand for better varieties.

Finally, this growing appreciation for pasture as a crop will bring about better and more efficient livestock production thru wider and wider use of pastures and thru better utilization of roughages. It will bring about better crop production because grass will become the foundation of our crop rotations. It will bring about better soil conservation and better maintenance of soil fertility, and it will bring about reduced requirements for labor and power on the farm.

## Coming Events

May 20—Barton county, Walnut Hill judging school, Great Bend.  
 May 21—Hamilton county, 4-H Sunday.  
 May 22—Nemaha county, 4-H dairy day, Ackerman farm.  
 May 22—Osborne county, district judging school, Lenora.  
 May 22—Graham county, annual district 4-H livestock judging school with Ray Hoss and M. B. Powell.  
 May 22—Shawnee county, Farm Management board meeting.  
 May 23—Clay county, Farm Management board meeting, Clay Center.  
 May 23—Elk county, gardening tour with William Amstein, KSC horticulture specialist.  
 May 23—Sedgwick county, crops field day.  
 May 23—Geary county, Balanced Farming tour, with H. C. Love, of KSC.  
 May 24—Nemaha county, Rural Life meeting.  
 May 24—Ottawa county, purebred livestock breeders association, 4-H livestock judging contest, Minneapolis. Five counties participating. There will be 2 classes of dairy cattle, 2 classes of hogs, 2 classes of sheep and 4 classes of beef cattle. Prizes for best judging.  
 May 24—Cloud county to participate in 5-county 4-H livestock judging school, Minneapolis.  
 May 24—Barton county, Farm Management directors meeting, Hutchinson.  
 May 24—Ellsworth county to participate in 5-county 4-H livestock judging school, Minneapolis.  
 May 24-26—Barton county, Home Management lesson, Ellinwood, Hoisington, Great Bend.  
 May 25—Phillips county 4-H foods training, Elizabeth Randle, Phillipsburg.  
 May 25—Chautauqua county, small fruits tour.  
 May 25—Washington county, poultry meeting, with M. E. Jackson, of KSC.  
 May 31-June 3—Riley county, annual 4-H round-up, Manhattan, KSC.  
 June 3—Jewell county 4-H Club council, County Agent's office, Mankato.  
 June 5—Riley county, agronomy field day, Kansas State College.  
 June 5-6—McPherson county, crop and soil tour.  
 June 6—Cheyenne county, dairy meeting, St. Francis.  
 June 7—Shawnee county, crops tour.  
 June 8—Cherokee county, wheat field day, Columbus experimental field, 1 mile west, 2 miles north of Columbus.  
 June 8-9—Riley county, crops day, Manhattan.  
 June 8—Jewell county livestock day, with M. B. Powell.  
 June 8—Pottawatomie county crops and soils tour.  
 June 12—Kearny county garden tour.  
 June 12—Cloud county, crops and soil conservation tour, with Luther Willoughby and Harold Ramsour.

June 12—Graham county, small grain field day, with Frank Bieberly.  
 June 12—Barton county, home improvement judging, Great Bend.  
 June 12—Southwestern Regional Chicken-of-Tomorrow contest, Shawnee, Okla. H. G. Ware, extension poultryman, Oklahoma A & M College, Stillwater, chairman.  
 June 13—Rooks county, district 4-H poultry judging school, with M. E. Jackson, Stockton.  
 June 13—Washington county, beef meeting, with M. B. Powell.  
 June 14—Lincoln county, field crop tour.  
 June 14—Scott county, garden tour, with Dell Gates.  
 June 15—Ellis county, agronomy field day, Experiment Station, Hays.  
 June 15—Ellsworth county, farmers' field day.  
 June 15-16—Barton county, color in home lesson, Great Bend and Hoisington.  
 June 16—Osborne county, agronomy field day.  
 June 16—Wichita county, garden meeting with Dell C. Gates, Leoti.  
 June 16—Shawnee county, garden tour.  
 June 16—Ottawa county, soil and crops conservation tour.  
 June 17—Johnson county, wheat field day, Uhlmann farm, Lenexa.  
 June 19—Jackson county dairy tour, Holton.  
 June 19—Wabaunsee county garden clinic and tour with W. G. Amstein, Extension horticulturist, assisting.  
 June 20—Washington county soils and crops field tour, L. E. Willoughby and Harold Stover, leaders.  
 June 20—Barton county, 4-H clothing judging, Great Bend.  
 June 20—Elk county, Elizabeth Randle will help 4-H food and nutrition project enrollees.  
 June 21—Thomas county, wheat field day, Colby Experiment Station.  
 June 22—Barton county, foods judging, Great Bend.  
 June 22—Jewell county crop and soil conservation tour, with M. B. Powell, L. E. Willoughby and Harold Stover.  
 June 22—Jackson county crops and soils tour, Holton.  
 June 22—Cheyenne county wheat field day, Bird City.  
 June 23—Osborne county, agronomy field day at Smith Center.  
 June 25-28—4-H camp at Rock Springs Ranch.  
 June 28—Elk county, leader training lesson, "Color Harmonies in the Home," Kate Aicher, leader.

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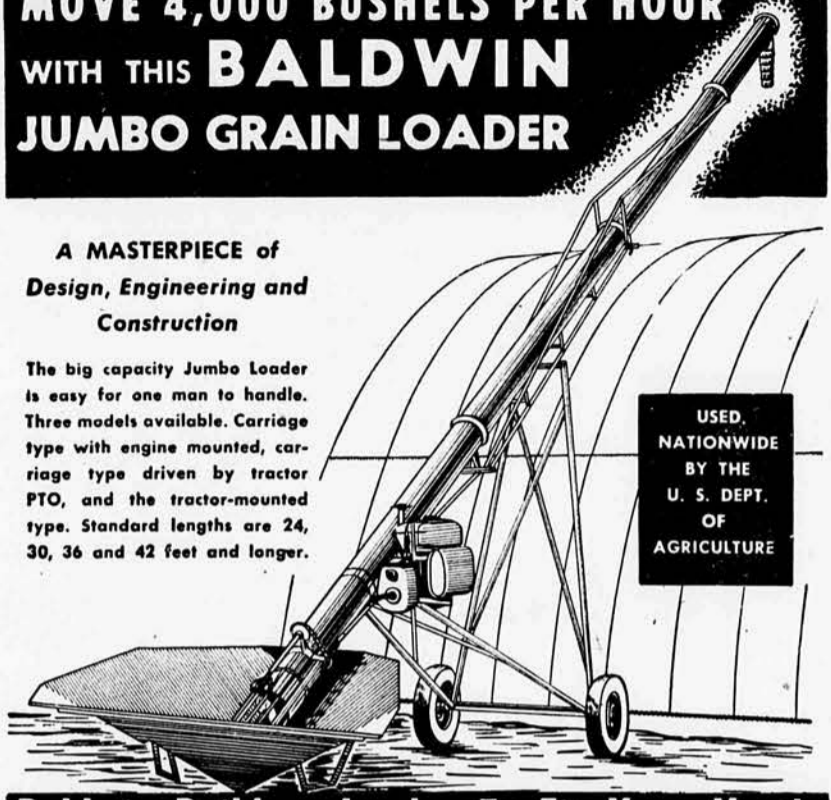


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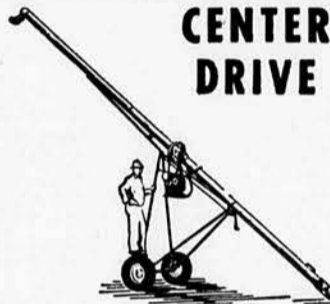
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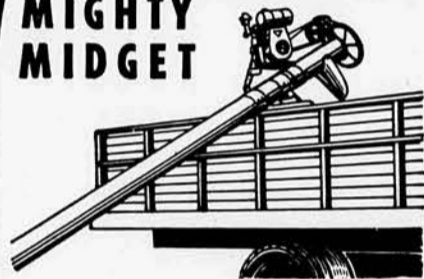
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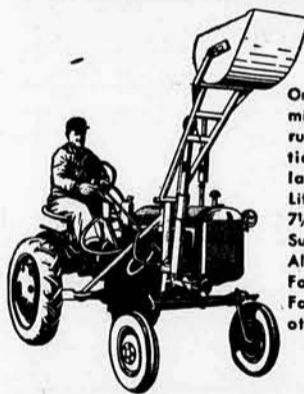
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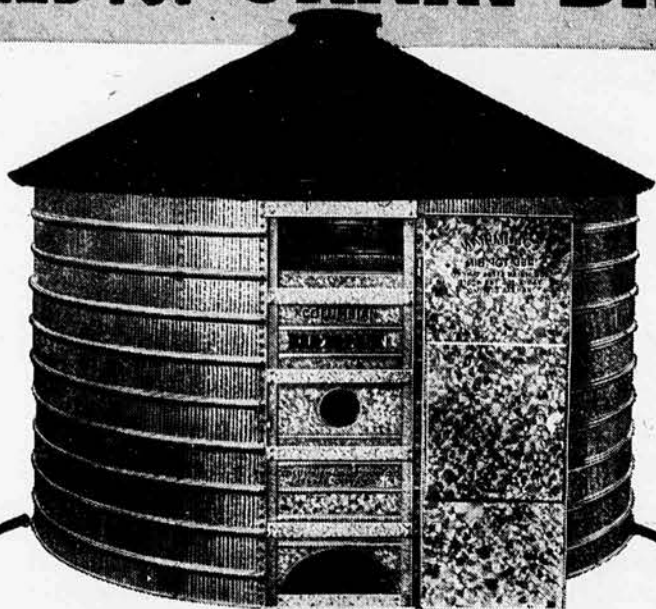
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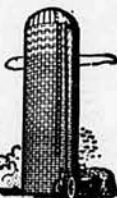
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# Kansas Dairymen Win at Royal

**K**ANSAS dairy cattle breeders didn't take a back seat for anybody in the second American Royal Dairy Cattle Show, May 6 to 13, at Kansas City.

Competing against breeders from Missouri and Oklahoma, Kansas breeders exhibited champion state herds in Holstein, Ayrshire and Milking Shorthorn shows. They also had champion district herds in Ayrshire and Brown Swiss shows, and placed second in Jerseys and Holsteins.

Top Kansas winners in various breed shows were as follows:

### Ayrshire

District herd (between Kansas districts): Central Kansas.

Championship district herd (3 states): Central Kansas.

Heifer calves: Chester O. Unruh, Hillsboro, 1st; Raymond G. Scholz, Lancaster, 2nd; W. S. Watson, Hutchinson, 3rd.

Junior yearling heifers: G. Fred Williams, Hutchinson, 2nd; Warren F. Bernstorff, Winfield, 3rd.

Senior yearling heifers: W. S. Watson, Hutchinson, 1st, 2nd, and 3rd.

Junior champion female: W. S. Watson, Hutchinson.

Mature cows: W. S. Watson, Hutchinson, 1st; Clarence D. Beat, Wellington, 2nd.

Four-year-old cow: John Keas, Effingham, 2nd; Frank E. Schrock, Sterling, 3rd.

Three-year-old cow: Raymond G. Scholz, Lancaster, 1st; Clarence D. Beat, Wellington, 2nd and 3rd.

Two-year-old cow: W. S. Watson, Hutchinson, 1st; Dwight Hull, El Dorado, 2nd and 3rd.

Senior champion female, reserve, grand champion female, reserve: W. S. Watson, Hutchinson.

Bull calf: W. S. Watson, 1st and 3rd; Chester O. Unruh, Hillsboro, 2nd.

Junior yearling bull: Dwight Hull & Sons, El Dorado, 1st; Raymond G. Scholz, Lancaster, 2nd.

Senior yearling bull: Griffee Bros., Marysville, 2nd.

Junior champion bull: W. S. Watson.

Two-year-old bull: C. D. Rogers & Son, Netawaka, 1st; Clarence D. Beat, Wellington, 2nd; Brown Memorial Home, Abilene, 3rd.

Mature bulls: W. S. Watson, Hutchinson, 1st.

Senior and grand champion bull: W. S. Watson.

Senior get-of-sire: W. S. Watson, 1st; Clarence D. Beat, 2nd; G. Fred Williams, 3rd.

Junior get-of-sire: W. S. Watson, 1st; Dwight Hull, 3rd.

Three best females: W. S. Watson, 1st; G. Fred Williams, 2nd; John C. Keas, 3rd.

Produce of dam: W. S. Watson, 1st; Clarence D. Beat, 2nd.

Three generation group: W. S. Watson, 1st; Clarence D. Beat, 2nd; John Keas, 3rd.

State herd: Kansas, 1st.

### Brown Swiss

Kansas herds: Canton No. 4, 1st.

Championship district herd: Kansas.

Heifer calves: Grace Mary Unger, Burden, 2nd.

Junior yearling heifers: Roy Webber, Kingman, 1st; James Edward Dyer, Baldwin, 2nd; Robert W. Latta, Jr., Carlyle, 3rd.

Mature cows: Earl Webber, Arlington, 3rd.

Four-year-old cow: Paul Timmons, Fredonia, 1st; Lloyd B. Rempel, Hillsboro, 2nd.

Senior yearling heifer: F. M. Webber, Kingman, 3rd.

Two-year-old cow: Millicent Schultz, Pawnee Rock, 1st; G. A. Weeks & Son, Lawrence, 2nd.

Junior yearling bull: Elmer Cogwell, Manhattan, 2nd.

Senior yearling bull: Green-Chamberlain, Topeka, 1st; G. E. Atteberry & Son, Larned, 2nd.

Two-year-old bull: Don Rudicel, Kingman, 1st.

Mature bulls: Dewey Schultz, Pawnee Rock, 2nd; G. D. Sluss, El Dorado, 3rd.

Reserve senior and reserve grand champion: Don Rudicel, Kingman.

Senior get-of-sire: Roy Webber, Kingman, 3rd.

Junior get-of-sire: F. M. Webber, Kingman, 2nd.

Three best females: Paul Timmons, Fredonia, 2nd; G. A. Weeks & Son, Lawrence, 3rd.

Produce of dam: Earl Webber, Arlington, 1st; G. A. Weeks & Son, Lawrence, 2nd.

Three generation group: Paul Timmons, Fredonia, 1st.

State herd: Kansas.

### Guernseys

Kansas herd: Kaw Valley District.

Heifer calves: Elmer Hershberger, Newton, 1st; Wm. H. Odgers, Salina, 2nd.

Junior yearling heifers: Joe M. Graber, Pretty Prairie, 1st; John L. Nelson, Wichita, 2nd.

Mature cows: Ransom Farm, Homewood, 3rd.

Four-year-old cow: Ransom Farm, 2nd.

Three-year-old cow: Geo. L. Jost, Hillsboro, 1st.

Reserve senior and reserve grand champion female: Geo. S. Jost, Hillsboro.

Bull calf: W. H. Bertholf, Wichita, 3rd.

Junior yearling bull: John Nelson, Wichita, 1st.

Senior yearling bull: Carl Watson, Pittsburg, 2nd.

Reserve champion bull: John Nelson, Wichita.

Two-year-old bull: J. D. Hill, Erie, 3rd.

Mature bulls: Clarence Raymond, Fredonia, 1st; Ransom Farm, 3rd.

Senior and grand champion bull: Clarence Raymond, Fredonia.

Senior get-of-sire: Ransom Farm, 2nd.

Junior get-of-sire: John L. Nelson, 2nd.

Three best females: Ransom Farm, 1st.

Produce of dam: Ransom Farm, 1st.

Three generation group: Ransom Farm, 1st; Wm. H. Odgers, Salina, 3rd.

State herd: Kansas, 2nd.

### Holstein

Kansas herds: Arkansas Valley District.

Championship district herd: Kansas, 2nd.

Heifer calves: Kansas State College, Manhattan, 2nd.

Senior yearling heifers: Donald Hopkins, Clearwater, 2nd.

Mature cows: Heersche Bros., Mulvane, 1st; Grover G. Meyer & Sons, Basehor, 2nd; Heersche Bros., 3rd.

Four-year-old cow: George & Dwight Stone, Medicine Lodge, 1st; Heersche Bros., 3rd.

Three-year-old cow: Wallace Beckner, Belle Plaine, 3rd.

Two-year-old cow: Kansas State College, Manhattan, 2nd; Arthur Jensen, Olathe, 3rd.

Senior and grand champion female: Geo. & Dwight Stone, Medicine Lodge; reserve senior and grand, Heersche Bros., Mulvane.

Bull calf: Donald Hopkins, Clearwater, 1st.

Junior yearling bull: Lambert Young & Son, Haddam, 2nd.

Senior yearling bull: Leo Hostetler, Harper, 2nd; Wm. J. Brink, Lawrence, 3rd.

Two-year-old bull: R. L. Evans & Son, Hutchinson, 2nd.

Mature bulls: C. H. Langdon, Edgerton, 3rd.

Senior get-of-sire: Heersche Bros., Mulvane, 1st; Phillips Bros., Manhattan, 2nd; Grover G. Meyer & Sons, Basehor, 3rd.

Junior get-of-sire: Donald Hopkins, Clearwater, 1st.

Three best females: Heersche Bros., 1st; Leo H. Hostetler, Harper, 2nd; Phillips Bros., Manhattan, 3rd.

Produce of dam: Heersche Bros., 2nd.

State herd: Kansas, 1st.

### Jersey

Kansas herds: South Central Parish, 1st.

Champion district herd: Kansas, 2nd.

Heifer calves: John Weir, Jr., Geuda Springs, 1st; G. W. Smith & Sons, Highland, 2nd.

Junior yearling heifers: A. L. Miller, Partridge, 2nd; John Weir, Jr., 3rd.

Mature cows: John Weir, Jr., 3rd.

Three-year-old cow: J. Lawrence Byler, Wellington, 1st.

Reserve senior champion female: J. Lawrence Byler.

Junior yearling bull: J. Lawrence Byler, 2nd.

Mature bulls: Frank L. Young, Cheney, 3rd.

Senior get-of-sire: A. H. Knoepfel, Colony, 3rd.

Best 3 females: John Weir, Jr., Geuda Springs, 2nd.

Produce of dam: J. Lawrence Byler, Wellington, 2nd; A. H. Knoepfel, Colony, 3rd.

Three generation group: A. L. Miller, Partridge, 1st.

### Milking Shorthorn

District herd: South Central District, 1st.

Heifer calves: Vern Lindholm & Son, Windom, 1st; Nels T. Torkelson, Everest, 3rd.

Junior yearling heifers: Jesse Jackson, Augusta, 2nd.

Senior yearling heifers: Nels T. Torkelson, Everest, 2nd.

Junior champion female: Vern Lindholm & Son, Windom.

Four-year-old cow: Vern Lindholm & Son, 2nd; Joe Hunter, Geneseo, 3rd.

Three-year-old cow: Joe Hunter, 3rd.

Two-year-old cow: Loewen Bros., Hillsboro, 1st; John Garetson, Copeland, 3rd.

Bull calf: Vern Lindholm & Son, Windom, 1st; Mayview Farms, Hudson, 3rd.

Junior yearling bull: Mr. and Mrs. C. R. Mace, Garnett, 1st.

Senior yearling bull: Nels T. Torkelson, Everest, 1st; J. A. Houston, Galesburg, 2nd.

Junior champion bull: Nels T. Torkelson; Reserve junior champion: Vern Lindholm & Son.

Two-year-old bull: John Garetson, Copeland, 1st; Henry C. Stunkel, Belle Plaine, 3rd.

Mature bulls: W. L. Hartman, Wichita, 2nd.

Senior and grand champion bull: John Garetson, Copeland.

Senior get-of-sire: Joe Hunter, Geneseo, 2nd.

Junior get-of-sire: Nels T. Torkelson, Everest, 1st.

Best 3 females: Joe Hunter, 2nd; Nels T. Torkelson, 3rd.

Produce of dam: Joe Hunter, 1st; Delaine Hinkle, Powhattan, 2nd.

State herd: Kansas, 1st.

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## Marketing Viewpoint

By H. M. Riley, Livestock; L. W. Schruben, Feed Grains; Paul L. Kelley, Dairy Products; Joe W. Koudele, Poultry and Eggs.

*I have about 40 head of shoats in the feed lot. Are hog prices likely to hold up thru June?—C. G.*

It was generally expected last fall's large pig crop would depress hog prices when marketed this spring. Altho prices weakened in late March and early April, recent advances have pushed prices to the highest levels since early last fall.

It now appears probable hog marketings will decline slightly during May and June. Last fall's pig crop was 10 per cent larger than a year earlier. Hog marketings from late February thru April were about 16 per cent larger than during the corresponding period a year earlier. Apparently farmers have been marketing earlier than a year ago, and as a result the usual seasonal low in prices probably was shifted from May back to late March and early April.

Other factors contributing to recent strength in hog prices are an increase in personal income resulting from a high level of business activity, and a reduction in average slaughter weights of hogs which has reduced potential pork production.

A continued high level of demand and a moderate decline in hog marketing should place hog prices in a strong position thru May and up until late summer when the spring pig crop begins to appear on the market.

*What can I expect for milk and cream prices during June?—K. L. P.*

Some slight declines are likely for the lower grades of cream while top grade cream prices should remain fairly steady. Low grade cream will not produce butter eligible for support; therefore, as the quantity of this type of cream increases during summer, it is likely the price spread between the different cream qualities will widen.

Fluid milk prices should remain fairly steady as the peak in production will have been passed and the price-support program has been rather effective in maintaining the general level of milk prices.

Sales of butter to the government have increased sharply this year as many creameries started selling this year that did not do so last year.

*What buyers receive the greatest per cent of eggs marketed by farmers in Kansas?—B. K.*

According to a study made in the north-central states in August, 1948, by the Bureau of Agricultural Economics, a sample of 558 producers showed the following distribution among buying agencies in the state:

Locally-owned plant or produce dealer . . .	45.7
Trucker or local plant of outside buyer . . .	10.9
Co-operative association . . .	4.7
Retail store—sold for cash . . .	10.0
Retail store—traded for groceries . . .	25.1
Hatchery . . .	2.7
Hotels, restaurants and bakeries . . .	0.7
Direct to consumer . . .	7.5
Other buyers . . .	0.2

*What do you think wheat prices will do during the next 30 days?—C. K.*

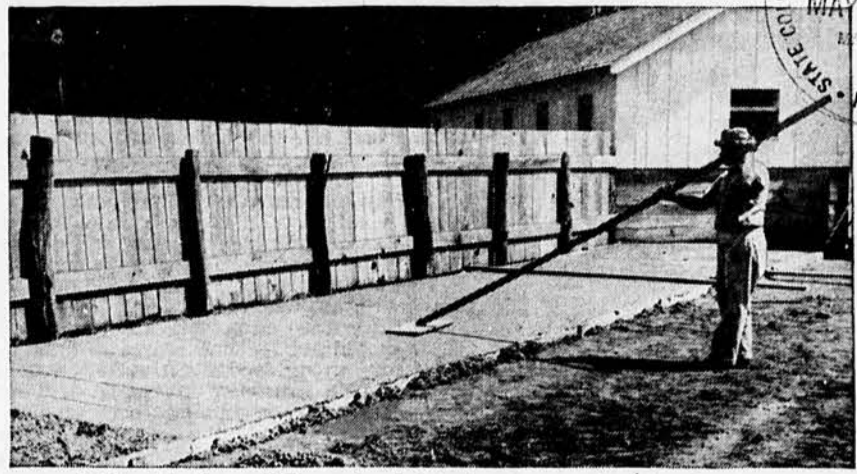
Wheat prices are expected to remain near present levels during the rest of May. What happens to prices between now and harvest depends a great deal on growing conditions and new crop development. Much will also depend upon management of the large stocks acquired thru price support.

The CCC has offered to sell wheat during May for \$2.48 at Kansas City for No. 1 which is 15c-20c over current cash prices. This represents a ceiling which is not likely to be reached unless an extremely short crop is to be harvested. If we have a normal growing season between now and harvest, the price of wheat is more likely to decline as harvest gets underway than to approach the CCC asking price.

### New Use for Alfalfa

Chlorophyll from alfalfa now is a basic ingredient in a new tooth paste, a green tooth paste called Chloresium, it is reported. Manufacturers of the new tooth paste claim that the chlorophyll in the paste accelerates the healing of bleeding gums, trench mouth, and other disorders, and that it helps do away with conditions presumed to be causes of tooth decay.

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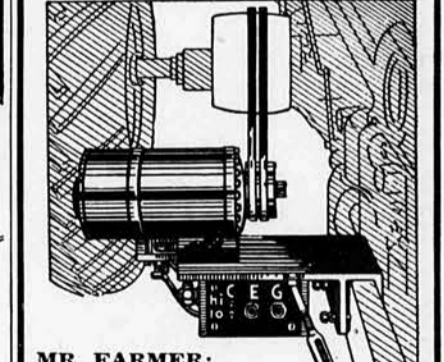
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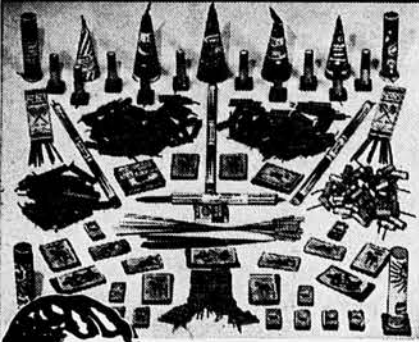
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## Brannan Plan

(Continued from Page 5)

economy... American agriculture is directly concerned with the success of our program for peace... The Brannan Plan will provide a method for using our entire supply of perishable products... the farmer would be sure of getting at least the support price... It is foolish to have the government buy and store food that people want to eat now. It is even worse to have the government buy food and destroy it, but that sometimes happens under the present program.

"Everyone knows about the shameful potato program. The taxpayers should not be expected to foot the bill for buying food which has to be wasted.

"The essential purpose of these (Brannan) proposals can be very simply stated.

"First, they are designed to obtain the amounts and kinds of farm products that are needed in an expanding economy, and to assure farmers the opportunity to earn a fair income for producing these products...

"In particular, it should encourage farmers to shift to livestock, rather than to continue producing surpluses of such crops as grains and cotton.

"Under the proposal we have made, farmers would be given incentives to make the needed shift in production. Farmers would be assured of support for all the crops which yield a major share of farm income. At present, some of the most important are left out. Furthermore, recent production and prices, rather than some out-of-date historical period, would be used in calculating fair income support levels. These are obviously desirable changes.

"The second purpose of the administration's proposal for changes in our support program is to provide a method for using our entire supply of perishable products, instead of taking part of it off the market and putting it on the shelf. Under our method, all the product would go into the market and be consumed.

"A system of direct production payments to farmers would make up the difference between the average market price and a fair return.

"Our third purpose is to encourage the conservation and wise use of our land. A price-support program can do this in two ways. First, by encouraging livestock production. The second way is to make soil-conservation practices a requirement for anyone who wants the benefit of the price support.

"The fourth purpose of our recommendations is to give the most support where it is most needed. That is, to the family-size farm. The present program channels too much of its benefits to the largest farms."

### For and Against

The Brannan Plan, with its implied promises of cheap food for consumers and high incomes for producers, already has practically 100 per cent support from the Congress of Industrial Organizations (CIO) union. And from the National Farmers Union. The American Farm Bureau Federation and the National Grange are opposed. Opponents assert that if it is operated to give cheap food prices for consumers, and high incomes to producers, the billions required from the Federal Treasury will bankrupt the national economy. On the other hand, unless Congress is to appropriate from 6 to 10 billion dollars annually for the food subsidies, the Department of Agriculture will have to impose such severe restriction on production as to force the market prices up to the support level—and cheap food will be out the window.

### The Big Idea

But all of that would be in the future. The important thing this campaign is to elect enough Fair Deal congressmen from farm districts to insure the 82nd Congress will (1) repeal the Taft-Hartley Act; (2) enact the Truman Fair Deal-Socialist-Welfare State program; (3) assure unquestioned following of the Administration's foreign policies as these are worked out from day to day.

Sen. Russell Long, of Louisiana, (son of the Kingfish Huey), stated the political philosophy back of it in one short sentence at the annual Washington Day dinner of the Democrats of Kansas in Topeka two years ago:

"Find out what the voters want, and promise it to them."

On that basis, the Brannan Plan

seems to fill the bill. Consumers want cheap food. Promise it to them. Farmers want assured incomes. Promise it to them. On its face, the program is unbeatable—if consumers and farmers believe the promises.

### "Fines and Jail"

Sen. Kenneth Wherry, of Nebraska, Republican floor leader in the Senate, returned the Truman fire immediately following the President's blasts the opening day of his "whistle-stop" campaign tour.

Senator Wherry denounced the Brannan Plan as "that economic monstrosity carrying fines and jail sentences for farmers who refuse to goose-step for Washington bureaucrats.

"The President," Wherry charged, "obviously is playing politics with the farmers' problems, trying to please the CIO bosses and the Americans for Democratic Action (Chester Bowles of OPA fame, Senator Humphrey of Minnesota, Leon Henderson, etc.) with dirt-cheap prices for food and win the farmers' vote with offers of bribery from the public treasury. Even leaders of the President's own party in Congress have spurned the Brannan Plan. I challenged advocates of the plan to present it in the Democrat-controlled Senate, and they refused to do so."

### Other Ideas

Meanwhile the House Committee on Agriculture is making studies and holding hearings this month on "self-financing" and 2-price farm proposals.

There is a self-financing holding pool proposed by the National Milk Co-operative Federation. Also a parity certificate plan offered by the National Grange. A 2-price wheat program is offered by the Northwest growers. Then there is the full-parity 2-price plan from South Dakota.

The Brannan-Cooley price insurance plan was discussed briefly in the May 6 Kansas Farmer.

Here are highlights of some of the other proposals being studied in the House Committee:

The National Milk Co-operative Federation plan—offered to cover all farm commodities, not just milk and milk products—would form a surplus holding and disposal pool, operated by a non-partisan government board. The pool would buy at the market price, dispose of surpluses by domestic sale, export, or diversion at cost plus handling and storage. Cover losses thru equalization fees paid by farmers.

The Grange parity certificate plan, as analyzed by Wayne Darrow: 1. Farmers would sell at market prices. 2. Farmers would get in addition "parity payment certificates" representing difference between free market price and parity on domestically consumed portion. At start of marketing year percentage of production needed for domestic consumption would be estimated, and percentage to be exported. Government would sell first buyer "parity supporting certificates" with "parity payment certificates" attached to cover purchases of commodity for domestic consumption. Farmers would cash their certificates with government at face value. Government would get its money back thru sale of supporting certificates to buyers. Final payoff by processors, who'd get theirs back by adding to sales price of processed product. Import quotas would be required.

Grange officials have not perfected this system, but are working on it.

The Stockman (Northwest wheat producers) 2-price plan would call for acreage allotments based on domestic needs. Certificates by government on domestically consumed portion. Farmer would sell wheat for whatever it would bring; certificates would represent difference between world price and support price. Also amounts to a processing tax on domestic consumption.

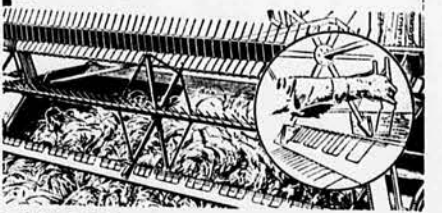
The South Dakota (Lovre) 2-price plan: Government would decide each year normal domestic consumption. Production controls would be counted upon to hold market price at parity. Each farmer would get a "marketing bushelage" quota representing his share of domestic consumption.

A farmer wanting to produce and sell more than his quota would "buy extra quotas" at, say, half parity price. These funds would be used to finance disposal of surpluses thru food stamp, exports, new uses. Farmer committees would run the program.

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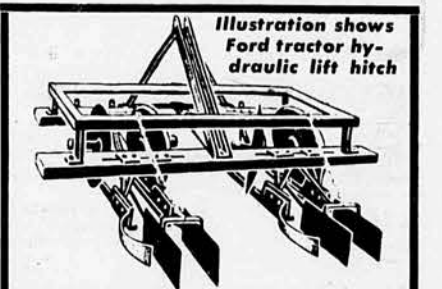


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 154 N. EMPORIA - WICHITA, KANS.



**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	\$32.00	\$28.25	\$25.75
Hogs	19.90	16.60	20.00
Lambs	29.00	28.25	32.00
Hens, 4 to 5 lbs.	.19	.22	.26
Eggs, Standards	.28 1/2	.28 1/2	.43
Butterfat, No. 1	.53	.56	.54
Wheat No. 2, Hard	2.33 1/2	2.36	2.29 1/2
Corn, No. 2, Yellow	1.50 1/2	1.45 1/2	1.36 1/2
Oats, No. 2, White	.87 1/2	.88	.75 1/2
Barley, No. 2	1.29	1.21	1.10
Alfalfa, No. 1	30.00	30.00	30.00
Prairie, No. 1	14.00	14.00	17.00

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see FAIRBANKS MORSE pg

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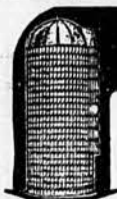
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**UNITED BUILDING AND LOAN ASSOCIATION**  
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217 E. WILLIAM - WICHITA 2, KANS.

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**Rented Land Gets Help, Also**



GEORGE R. BURT, Cloud county, is shown standing in one of his fine grassed waterways that have stopped soil washing on his farm. Two terraces in the background, left, can be seen leading into the waterway.

HAVING completed a soil-conservation program on his home 160 acres, George R. Burt, of Cloud county, has started on a similar program for 320 acres being rented. "I have the fine co-operation of my landlord, Walter Nelson," says Mr. Burt, "in stopping erosion on the 320."

When he bought his present farm in 1942 the fields were badly ditched and the entire farm was run down. On one sorgo field he had to plow in the ditches before the binder could be taken across the field.

Nearly all of the farm is terraced now and all of it is farmed on the contour. About 30 acres are seeded down to brome grass and 20 acres of sweet clover are plowed under every year as a soil-builder. Most of the farm has been covered with sweet clover at least once.

"Brome grass seed is proving one of my most profitable crops," reports Mr. Burt. He fertilizes his brome after the second year with 100 pounds of nitrogen an acre where brome is pastured.

Dairying and hogs are the major livestock projects on the farm, while production of certified Pawnee wheat and certified Nemaha oats are the grain enterprises. Mr. Burt had the first certified Nemaha oats in the county.

First thing done by Mr. Burt on his rented land was to establish 22 acres of grassed waterways. "Can you afford to seed down those waterways?" we asked. "I couldn't farm them the way they were," replied Mr. Burt. "With ditches filled and drainage areas in grass I can use them for pasture, hay or a seed crop. It is the only sensible way to farm these draws, and all soil washing already has been stopped."

**Poultry Gives Dairy Close Race for Profits**

FOR many years poultry and cattle have been running a close race on the Cudney farm, in Edwards county. Often the layers made more money than the milkers. But last year the dairy herd forged ahead. And it wasn't because the poultry flock didn't come up to par. The layers gave an excellent account of themselves, netting about \$3.80 a bird.

Registered Jerseys have been a familiar breed on the Cudney farm since 1923 when Herman Cudney first started with them. Since 1947, his son, Ray Cudney, has taken over active management of the herd. His wife is the record keeper and also has a lot to do with management of the poultry flock.

The fact that the dairy cattle came out in front of the laying flock last year is no reflection on the young Mrs. Cudney. Ray Cudney has expanded the dairy herd as well as setting an excellent production record in the dairy department.

Look at the dairy figures for the last complete year: The full herd average was 461 pounds of butterfat. An average of 20 cows on HIR record produced an average of 8,939 pounds of 5.2 per cent milk. That is a herd average of 464.8 pounds of butterfat. That is a

mighty good record in anybody's herd.

Ray Cudney says his highest cow produced 676 pounds of butterfat from 12,713 pounds of milk. Next-high cow accounted for 628 pounds of butterfat from 12,438 pounds of milk. He expected to be milking about 28 cows this last winter.

Balbo rye has played an important role in that production. He usually seeds rye in mid-August and expects 60 to 90 days of fall pasture from it. Then there is more spring pasture from the rye. But his father is a certified-seed producer, so the rye is mowed at blooming time and is plowed under. It prevents contamination.

**Sells Grade-A Milk**

In addition to the rye, they use Sudan grass for summer pasture, native grass for the heifers. About half the alfalfa used for the herd is raised on the farm and atlas silage makes up the remainder of the roughage. Milk is produced and sold on a grade-A basis.

But, about that laying flock, production was good there, too. A flock of 300 layers grossed \$2,331.94 in a little short of a year. Eggs also were sold on a grade basis. Feed costs during that time totaled \$1,187.89. That figure, of course, did not include feed the layers might pick up around the farm, like screenings from the seed business. But it left a net of \$1,144.05 from 300 layers, an average of \$3.81 a bird. And that's mighty good. For the second year they are using Hy-Lines.

Last August they moved 211 hens left from that flock to a different laying house. They averaged 150 eggs a day thru August. In September production still was up to an average of 140 to 150 eggs a day. At the same time they started a new flock of 268 pullets in a separate laying house.

Ray Cudney believes one reason they get such good results from their poultry can be attributed to the use of colostrum milk in the wet mash. This milk would be wasted if not fed to the chickens. And they believe it does a lot for them. Of course, the layers get excellent care in addition to that.



"Boy, this is the life."



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THIS SPRING, census-takers are calling on homes all over America. Suppose one of them called on us and asked some of the same questions she asks you. Here is what our answers would be:

## IF THE CENSUS-TAKER CALLED TODAY THIS IS WHAT WE'D TELL HER



**QUESTION:** *Your name, please?*

**ANSWER:** Standard Oil Company (Indiana). We speak also for our subsidiary companies.

**QUESTION:** *Age?*

**ANSWER:** We'll be 61 years old this coming June.

**QUESTION:** *Occupation?*

**ANSWER:** We produce crude oil, transport it, refine it into more than 2,000 useful products and distribute these products for sale. Doing each of these things ourselves, as an integrated company, helps us make better products more economically and make them more readily available.

**QUESTION:** *How many in your immediate family?*

**ANSWER:** First of all, 46,700 employees. Stan Zatorski is one—he works at our refinery in Whiting, Indiana. Our employees averaged \$4,600 in wages and benefits last year, and each of them has behind him an average of \$30,100 in tools and equipment to help him earn his good living.

We have more than 2,300 retired employees, like Lee Swanson of Sidney, Montana, each of whom receives monthly income checks under our contributory retirement plan.

Then we have 96,800 owners, like Mrs. Klare Kaudson, a housewife of Minneapolis. In 1949

our stockholders owned an average of 158 shares, on which dividends paid had a value of \$425. No one man or woman owns as much as 1% of our stock, and no institutional owner has as much as 5%.

**QUESTION:** *Any other dependents?*

**ANSWER:** Well, there are a good many other people who depend on us to some extent—and at the same time, we depend on them. There are many thousands of independent businessmen like Sam Reeve of Birmingham, Michigan, who earn their living by selling our products. There are millions of customers like Joseph Carawab of Chicago who use our products.

And there are a great many people who benefit from the work of the many schools, colleges, hospitals, charities, insurance companies and other institutions that get part of their income from our stock.

**QUESTION:** *How do you spend your income?*

**ANSWER:** The greater part of it—58.7 cents out of every dollar we took in last year—was our cost for materials, transportation and wear and tear. Another 16.4 cents went for wages, salaries and employee benefits. 2.9 cents was paid to our owners as dividends and 4.8 cents was retained in the business. These items add up to 82.8 cents.

The remaining 17.2 cents out of every dollar we took in last year went to pay taxes, including our own taxes and those we collect from our customers for national, state and local governments.



**STANDARD OIL COMPANY (INDIANA)**