

86, 19

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Kansas Farmer

CONTINUING MAIL & BREEZE

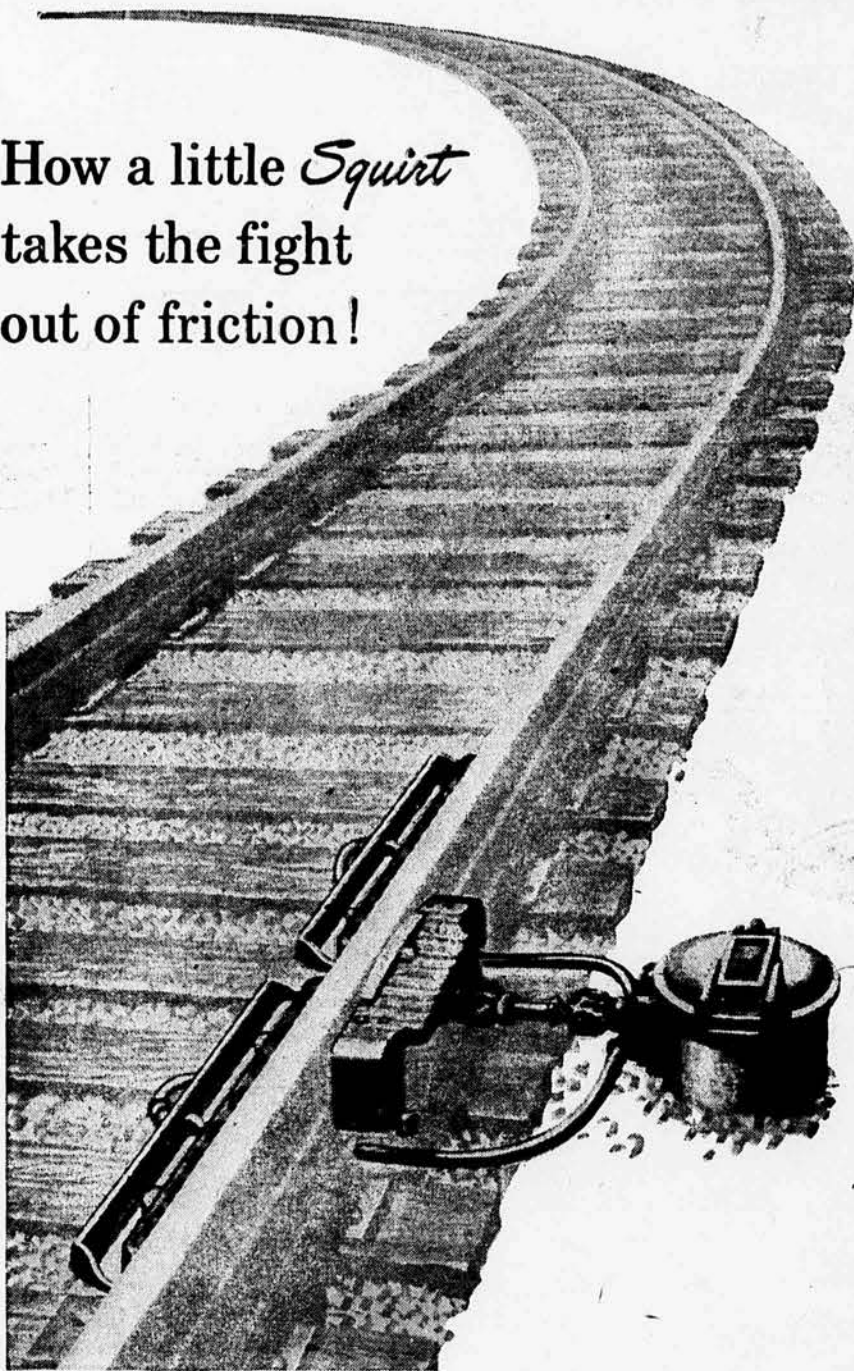
OCTOBER 1, 1949



APPLES



How a little *Squirt* takes the fight out of friction!



Pulling a train around a curve takes extra locomotive power due to the friction of the wheels against the rails.

But another, and more serious, effect of this friction was the way steel wheel flanges *ground off* the rail head, making it necessary to replace the rail on sharp curves every few years.

So railroad research engineers developed an ingenious "flange-lubricator" which is installed on curves. As the train approaches the curve, the car wheels come in contact with a tripper bar which automatically squirts a measured amount of lubricant against the flanges. Friction is reduced to a minimum...the locomotive load is lessened...and the outside rails on curves wear two or three times longer.

Finding new ways to make every detail of railroad operation more efficient calls for continuous research on hundreds of projects. It's

typical of how American railroads are constantly on the alert to cut the cost and to improve the service of the nation's most economical transportation system.

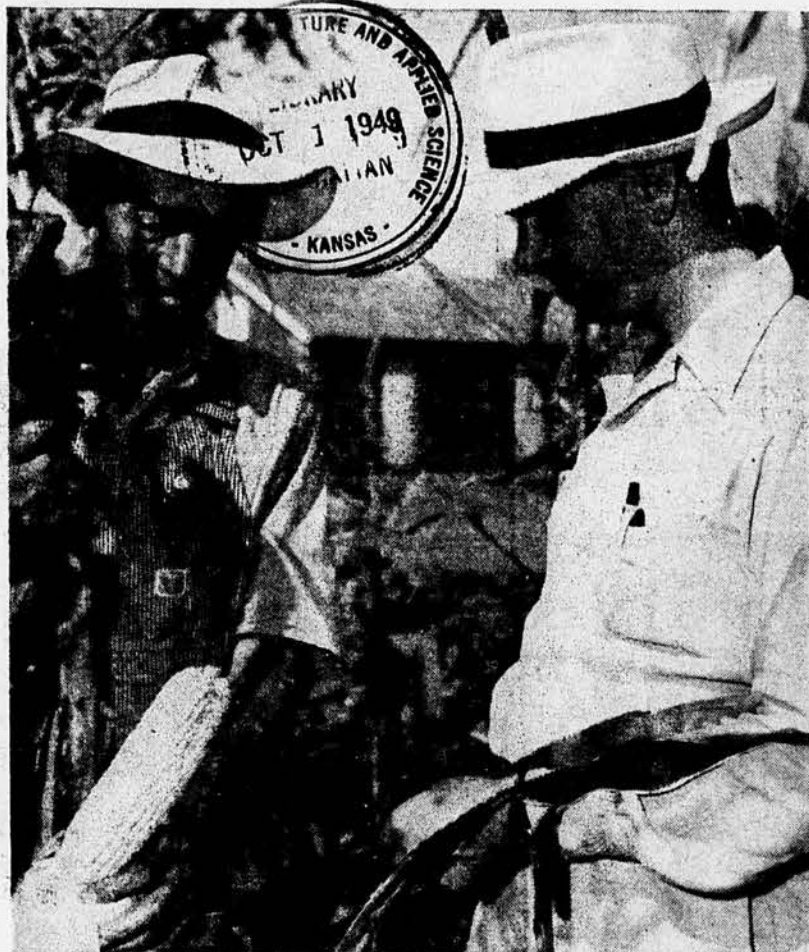
To keep improving America's railroad transportation network means constant investment, both in developing new and better ways of railroad operation and in the actual installation of research-proved innovations. And because the railroads have always given the "green light" to continuing improvement, the American people increasingly benefit from the thriftiest mass transportation in the world.



Announcing **THE RAILROAD HOUR**
Every Monday evening now on the
National Broadcasting Co. Network.



Never Less Than 50 Bushels In His Irrigated Corn



A. F. Thille, Mitchell county farmer, left, shows a sample of his irrigated corn to Wendell Meyer, Mitchell county agent. Mr. Thille has never averaged less than 50 bushels of corn an acre on his irrigated river bottom land.

HOW would you like to have corn that would never make less than 50 bushels an acre. Maybe you can if you have some good bottom land along a running stream.

A. F. Thille, of Mitchell county, has 65 acres along the Solomon river, and has been raising irrigated corn of high quality and yield every year since 1941. He has never fallen below a 50-bushel average. In the official DeKalb corn-growing contests he had a 5-acre plot in 1945 that made 73.81 bushels an acre, and in 1946 ran his yield up to 105.07 bushels an acre.

Water out of the Solomon can be pumped onto the cornfield at the rate of 1,150 gallons a minute, and Mr. Thille says he can irrigate 10 or 12 acres a day, doing all the work himself.

This year his cost for gas and oil ran \$1.30 an acre. "I believe my corn this year will average 60 bushels an acre," he says, "while 30 bushels an acre is considered a high yield on dry-land farming along the Solomon river here."

Until this year he had never used any fertilizer. Now he is experimenting some. He used 300 pounds of 5-10-5 an acre on 20 acres, and 100 pounds of 33.5 per cent ammonium nitrate an acre on 20 acres. Both applications were as a side-dressing at the second cultivation.

Results will not be known until harvest, but Mr. Thille believes he could see some benefit before harvest on that corn getting nitrogen. The most critical time for corn, so far as its need for water is concerned, is from the time it starts to tassel until it is well into the dent, Mr. Thille reports.

An unusual method of handling his ditches is used by Mr. Thille. He plows ditches full each summer after he has completed his irrigating, and then works the ground occasionally during the year to control the weeds. He says the ground is much easier to work in this manner than it would be to maintain an open ditch. When he is ready to irrigate again, he takes an old road grader (worked over from horse- to tractor-drawn) and opens up new ditches.

Corn Support

The 1949 corn crop will be supported by the CCC at 90 per cent of the corn parity price as of October 1, 1949, by farm-storage and warehouse-storage loans and by purchase agreements, announces the U. S. Department of Agriculture.

Loans and purchase agreements will be available from time of harvest through May 31, 1950, and will mature on July 31, 1950. Producers who elect to deliver corn under a purchase agreement must notify their county conservation committee within a 30-day period before maturity.

Corn placed under loan must, except for moisture content, grade U. S. No. 3 or better, or No. 4 on test weight only and meet the moisture requirement for safe storage. Corn delivered under a purchase agreement must grade U. S. No. 3 or better or No. 4 on the factor of test weight only.

Test Soil Early

If you plan to have your soil tested by the State Soil Testing Laboratory before sowing spring crops, have them tested now, announces R. V. Olson, Kansas State College agronomist in charge of the state laboratory.

"When tests are made early there will be plenty of time to arrange for the necessary fertilizers," Mr. Olson says.

Senator Capper on Radio

Every Sunday afternoon at 3:30 o'clock Senator Arthur Capper discusses national questions over WIBV radio station.

KANSAS FARMER

Continuing Mail & Breeze

Topeka, Kansas

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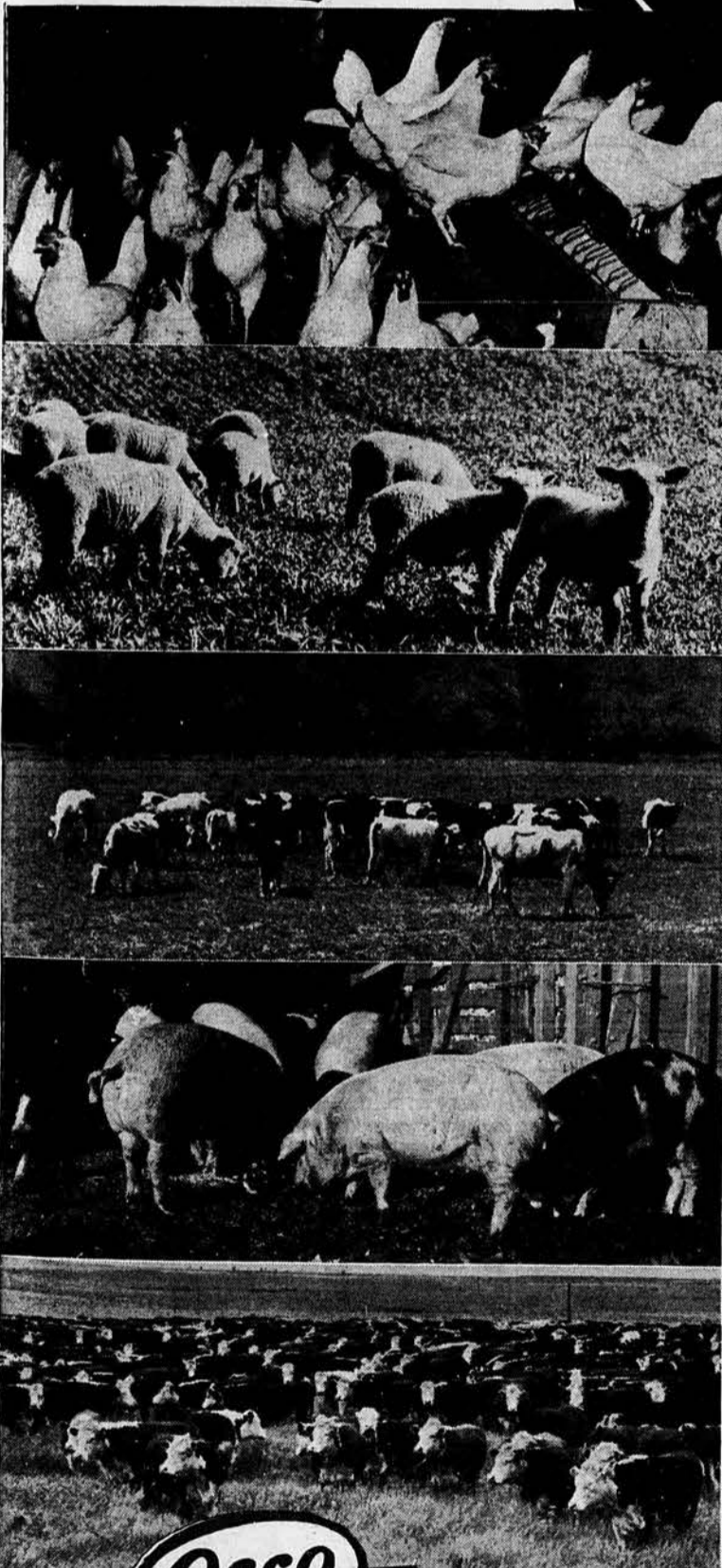
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**GIVE
THEM
A BETTER
CHANCE
THIS
WINTER**



Occo
MINERAL COMPOUND
NOW!

*The Fall of the
year is an important
transition period
for your
farm animals.*



It means the moving from succulent Summer pastures to a heavier ration. This is the time when special consideration should be given to feeding programs. Occo Mineral Compound and Occo-Lak added to rations now helps your herds and flocks get a "running start" on that wintertime menace, Mineral Starvation.

By helping provide a mineral-balanced diet now, Occo Mineral Compound and Occo-Lak aids your animals in building up their body reserve of minerals . . . reserves that are needed to promote good general health . . . for fast, thrifty growth . . . and for increasing the output of milk, eggs and wool.

Start adding Occo Mineral Compound and Occo-Lak to rations NOW and give your livestock and poultry a better chance this winter. The regular use of Occo is extremely small because only a little Occo is needed to help bring that important mineral balance to rations.

The results that I have had with Occo Mineral Compound and Occo-Lak are astonishing. I have been feeding Occo Mineral Compound and Occo-Lak to my dairy cows, and they eat good, drink lots of water, and are producing better than ever before.

Charley F. Mason
Stockton, Kansas

We have fed Occo Mineral Compound and Occo-Lak for three years and like it fine. Last winter we fed over \$100,000 worth of cattle. We feel that Occo Mineral Compound and Occo-Lak has given us good gains.

J. H. and Fred D. Cox
Assaria, Kansas

ADD Occo MINERAL COMPOUND TO LIVESTOCK AND POULTRY RATIONS

These Western Kansas Farmers . . .

Beat Pasture Obstacles

By Dick Mann

TWO farms in Grant county are typical of a new trend in thinking that is beginning to take place in Western Kansas. These 2 farms are owned by R. W. Tuttle, and Clifford Fort and Sons.

Here the operators are trying to lick obstacles that always have stood between Western Kansas farmers and a stable livestock production program. These obstacles include lack of permanent pasture, low carrying capacity of pasture, lack of temporary pastures, and lack of rainfall for feed crops.

Mr. Tuttle started a pasture improvement program as far back as 1943, and has gradually expanded both acreage and quality of his permanent pasture. Most of his native pasture land was in sandy areas and had a very low carrying

capacity—about 1 head to every 20 or 25 acres. He went in with a drill back there in 1943 and reseeded 100 acres with buffalo grass and side oats grama, and another 80 acres with crested wheat grass. Grasshoppers took his crested wheat, but he got a good stand on the other 100 acres.

Since this early experiment he has put 300 acres of former cropland into pasture by seeding it to sand love grass and, 2 years ago, he seeded 50 acres of a mixture containing blue-stem, grama and buffalo.

This year Mr. Tuttle went all out. By airplane he seeded sand love grass in 500 acres of native pasture and drilled in another 500 acres of sand love.

Based on results [Continued on Page 24]



Above: Clifford Fort, left, and Joseph Chilen, county agent, show size of Sudan on the Fort farm. Mr. Fort is planning a year-around pasture program, using irrigation when needed.



Above: Cattle on the Clifford Fort and Sons farm, in Grant county, are nearly hidden in Sudan grass pasture.



Above: R. W. Tuttle, right, and Joseph Chilen, Grant county agent, look over the lush sand love grass on the Tuttle farm. Mr. Tuttle has an extensive pasture improvement program.



Above: Even Grant county soil needs some nitrogen, as shown in this picture. The dark colored sand love grass on the right is seeded with sweet clover, while that on the left is not.



At Right: Carrying capacity on the Tuttle pastures has been increased 5 to 6 times thru reseeding. Pasture like this now will carry 1 head to 4 acres.

Farm Matters

AS I SEE THEM



TESTIMONY of something like one hundred farmers and representatives of farm organizations at the Republican Farm Conference at Sioux City, Ia., last week presents a real challenge to the Republican party. It is a challenge for courageous leadership on the part of the Republican party.

It is too bad, in several ways, that the farm problem and the national farm program has been thrown so completely into the realm of partisan politics.

That this has been done, I can testify from my own 30 years in the Senate of the United States, is not the fault of the Republicans, nor to any great extent, the Democrats in the Congress of the United States.

During the closing year of the Wilson administration, and during the Harding, Coolidge and Hoover administrations, the Democratic leadership in the Senate and House co-operated with the Republican majorities in both branches on farm legislation.

During the years of Roosevelt and Truman administrations which followed, I can testify, and the records show, that the Republicans in both Senate and House co-operated with the Democratic majorities to enact farm legislation without regard to partisan politics.

The same was true of the Republican 80th Congress which had Republican majorities in both branches of Congress. The so-called Hope-Aiken bill, which really was two bills put into one act, was the joint product of the Senate and House Agriculture committees.

During the 1948 campaign, President Truman, and his supporters, decided to "go after the farm vote" by denouncing and even misrepresenting the flexible support provisions of the Hope-Aiken bill, as a Republican measure directed against the interests of the farmers of America. This in spite of the fact that his own Secretary of Agriculture, Clinton P. Anderson (now U. S. Senator from New Mexico) had helped write and had supported the provisions of the Act.

Last spring, when it became evident that the Democrat 81st Congress was not going to repeal the Taft-Hartley Act, and also was not likely to enact the rest of "Statism" (or welfare state) program the President was demanding, the White House and certain organized labor leaders got together and called the Midwest Democratic Farm conference at Des Moines.

"The (Des Moines) meeting was a great rally of the CIO, the AFL, and the railroad labor organizations," according to Rep. Clifford Hope of Garden City, Kansas, who was chairman of the House Agriculture Committee of the 80th Congress. Incidentally, Kansas farmers know that both Clifford and myself, during the many years we served together on the two Agriculture committees, were recognized as placing the interests of agriculture above the play of partisan politics.

"There were speeches (at the Democrat Des Moines Conference) by James B. Carey, Secretary-Treasurer of the CIO; by Jack Kroll, Director of the CIO Political Action Committee; by the late A. F. Whitney, then President of the Brotherhood of Railway Trainmen; and by Joseph Keenan, of the Labor League for Political Education," Congressman Hope pointed out. In addition there were speeches by Vice-Presi-

dent Barkley and Secretary (of Agriculture) Brannan.

"But if farmers were allowed to say anything, all the newspaper accounts I have seen failed to mention the fact," Congressman Hope said.

The Republican meeting at Sioux City, Ia., last week was different. All but a few of the nearly 100 men and women who appeared on the program were farmers. Those who were not were representatives of farm organizations, and senators or representatives representing farm constituencies.

The statements by these witnesses present a real challenge to the Republican party. They made it plain farmers expect a price support program to be continued permanently.

But the overwhelming majority said they do not want farm income to depend upon Treasury checks voted each year by Congress. They want a program that will get them fair prices in the market place. And they don't want the federal control of farming operations and farmers called for in the Brannan program.

There lies the challenge to the Republican party. It is to draft a farm program that will provide independent farmers an opportunity to earn a livable income from their production; that will provide an abundance of food at prices consumers can afford to pay.

That is quite a challenge. It is up to the Republican party to meet that challenge—or else. I will have more to say about this later on.

A Farm's Worth

IHAVE often heard folks ask how much a farm is worth. That is an interesting question because it has so many different answers. To me it depends on what values you are looking for.

Take Kansas as an example. With our 141,000 farms you would get 141,000 different opinions from their owners. Because each individual farm has its own peculiar combination of good qualities known to the owner, and differing from those of any other farm. That is one kind of value.

Then suppose there were 141,000 new buyers for these farms. Each one would have still a different idea of the value of any one of the farms he was about to purchase. It would depend on why he wanted the farm. Whether for an investment, or a place to live and work.

The worth of a farm to the city man who buys it for an investment depends largely on the ability of the man he puts on the place to farm it. That is one kind of value. The worth of a farm to the owner who farms the land depends on his ability to plan and operate and manage so that, over the years, he will be able to pay cost of production and receive a satisfactory wage for his labor and executive or management ability. Here is another kind of value, as any farmer will understand—a way of life. What a fine challenge to any man and his family! It takes a man with outstanding ability, courage and imagination to be a real success at farming. I hope more and more young farm people will see that point and feel it so strongly they will choose to stay on the farm.

No matter what a farm is worth today in the number of bushels it will produce, it probably

can be worth still more bushels tomorrow. At hand are the tools and knowledge to bring this about—better cropping systems, soil conservation, use of fertilizers, adequate equipment.

No matter how pleasant and comfortable a farm may be today as a place to live, it can be even better tomorrow. At hand are the knowledge and modern conveniences to make it so. I hope the future will make it possible for every farm family to have a pressure water system, electricity, central heating, and may I add all-weather roads.

Even denied some of these modern conveniences, virtually any farm can be made more productive by good farming practices. Also can be made a more interesting and pleasant place to live thru improving the home and landscaping the yard about the farm home. I know a great many farm folks who have done these things. Many families living on farms worry very little over the fact they receive modest returns for their investment. Their great interest lies in the fact that they value the farm as a good place for a family. It offers individual and family opportunities and satisfaction found no other place on earth.

I am sure the value of a Kansas farm, when compared with those of other states, will stand up well. Looking at it from a money angle we find Kansas farm owners in strong financial position. Altho our farmers have spent millions of dollars for improvements, soil conservation, and the purchase of new equipment since the war's end, farm debt has made no significant increase. That is according to the findings of the American Bankers Association: "Farm families are going thru these final months of adjustment from war to peacetime economy with very little disturbance. They are maintaining a sound financial position; and while they are using more credit for improvements and new equipment, their obligations are being paid off in relatively short time, and they are adding to their already substantial financial reserves."

On the other hand, value of a Kansas farm as a place to live, compared with farms in other states, doesn't have to take a back seat by any means. I have traveled over a good part of these United States and I can tell you Kansas farm land looks good to me. It is productive, supports proud, thrifty, industrious families. I find as good homes and buildings on farms in my state as in any other state.

And I would like to say this. There must be something outstanding in the ability of Kansas farms to develop leadership in agriculture or any other line of business. How much has industry profited by the quality of men Kansas farms have sent into it? That is quite another farm value.

I say a Kansas farm owner who lives on and farms his land is about the most important citizen we have. Likewise the farm he operates is one of the most important keystones in the foundation of our country.

These are only a few ideas of how much a farm is worth? It depends on how you look at it. Whether as an investment or a way of life or what it means in the whole scheme of things.

Arthur Capper

Topeka.

Will Cheaper British Pound Hurt Farm Prices?

By CLIF STRATTON

Kansas Farmer's National Affairs Editor

POSTWAR adjustments of foreign currencies got under way with a bang in the last 2 weeks. Britain, in surprise move, reduced the official dollar exchange value of the pound sterling from \$4.03 to \$2.80, a reduction of some 30½ per cent. The other ster-

ling-area countries, most of the western European nations, and Canada followed suit, altho none of them to the same extent as did Great Britain. Canada, for example, which had "pegged" the Canadian dollar on a par

with the U. S. dollar, only reduced the Canadian dollar's official exchange rate slightly. The new rate of \$1.10 in Canadian money equals \$1 U. S. money. Stating it the other way, the Canadian dollar now is worth 90.9 cents in U. S. (Continued on Page 26)

Hunt Answer To Cattle Threat

RESEARCH men in Kansas have been working since 1928 trying to find the answer to anaplasmosis, that threatens cattle in Southeast Kansas. The work was done at Sedan until 1935, then moved to Manhattan, where investigations are still being conducted. So far anaplasmosis has not responded to methods usually successful with other diseases. None of the various types of vaccines and serums tried have had any effect. In contrast to most disease-producing organisms, it has thus far been impossible to make the causative agent of anaplasmosis grow under artificial conditions outside the animal body.

Because the disease is similar to human malaria, drugs such as quinine and atabrine have been tested but found of no value. More than 40 other drugs, including penicillin, have been tried with no benefits to the animals.

Transfusion of blood has been most beneficial, but no practical method has

been found for obtaining and injecting the gallon of blood needed daily for recovery.

It has been proved that cattle recovering from anaplasmosis remain carriers of the infection for many years, possibly for life. It also has been shown calves born to carriers may be carriers, too.

Recovered carriers cannot be told from normal cattle by any practical test. Thousands of tests have been made to find some method of locating these carriers, but without result.

Anaplasmosis so far has the researchers whipped, but they'll keep trying until they find the answer. And they will find it.

Doubled Wheat Yield

Besides building up his soil fertility, Axel Andersen, of Lincoln county, saves a 2- to 3-month feed bill on his cattle by using sweet clover for pasture.

He seeds about 100 acres of sweet clover a year in his wheat. After the wheat is harvested, he pastures the sweet clover in the fall, and again in the spring until about the first of June,

when he plows it under as a green manure.

Sweet clover has been on the poorest soil twice and on most of the farmland at least once. "Fertility of the soil is up enough now," says Mr. Andersen, "that I can let up some on sweet clover acreage." In using his sweet clover in the wheat, Mr. Andersen plans on clover once every 3 years where the soil is poor and once every 6 years on the rest.

He has found that if he one-ways his clover instead of using a plow there is less danger of soil erosion. "My wheat yields have doubled since I started using sweet clover," says Mr. Andersen. "Some of this increased yield is due to the clover, and some to the fact the land lies fallow from the time I one-way the clover under in June until time for wheat seeding the following fall."

Average wheat yield on the Andersen farm this year was 14 bushels, compared to a county average of 6 or 7 bushels. Farmers in Lincoln county are increasing their use of sweet clover, however. They have increased some 5,000 acres in the last year or so, according to Darrel Dean Dicken, county agent.

Upside-Down Apples



Alice Koehler, left, and Stella Judd show the first step in packing apples. This step is known as "facing" and consists of choosing and packing the top rows of apples in the basket. The women are employes at the Troy Apple Growers Association, Inc.

DID you know that apples are packed in baskets from the top down rather than from the bottom up? It's a fact, as you would discover if you visited the Troy Apple Growers Association, Inc., packing plant in Troy.

At this plant we found Alice Koehler and Stella Judd doing what the trade calls "facing."

Taking shallow metal pans the same size as the top of a bushel basket, the "facers" choose and pack the top row of apples and place a cardboard rim to hold the apples in place. These facers then move down the line where another cardboard jacket the shape and size of the inside of a basket is slipped into place. The rest of the apples are then put into this jacket and the basket slipped over the outside.

Tough Disease

Hyperkeratosis (X-Disease) of cattle has been diagnosed by staff members of the School of Veterinary Medicine during the summer in several areas of Kansas.

Symptoms are loss of appetite, diarrhea, excessive salivation, sometimes elevation of body temperature, progressive emaciation and loss of weight. The skin over the body surfaces comes dry, hard, wrinkled and thickened. There is no rubbing or itching of the affected skin areas but loss of hair may occur. To date, cause of the disease and its treatment have not been well established. The School of Veterinary Medicine will continue to conduct research and investigate cases of this disease of cattle.—E. Leasure, K. S. C.

New Layer

A new breed of chickens—Hollands—now is recognized officially by the American Poultry Association. It will be included in the American Standard of Perfection when the next edition is published.

There are 2 varieties of the breed—white and barred. Hollands are in the heavy-breed class, yet the hens lay white-shelled eggs. This breed has a compact body, full breast and fairly short legs.



Seeing is Believing

5282 Farmers Average 110.14 Bu. Per Acre* in 1948 with DeKalb Corn

30,080 Farmers Average 96.95 Bu. Per Acre* over a 10 year period

*Yield figures on above signs are based on estimated yields from selected .5-acre contest plots.

These RESEARCH FIELDS Help take the Guesswork Out of Corn Growing

Scattered throughout the Nation this year, you will find DeKalb County Research Fields like the one shown above. Here, in soil and climate similar to yours, you can see many DeKalb Hybrid Varieties growing side by side. Here, you will see what's new in hybrid corn—new varieties adapted to your locality.

Make it a point to visit one of these fields. See for yourself what DeKalb will do for you. You'll know then why more Farmers Plant DeKalb than any other hybrid corn... why thousands of new customers each year place their confidence in DeKalb, and thousands of old customers stay with DeKalb year after year. DeKalb Agricultural Ass'n., Inc., Commercial Distributors of DeKalb Hybrid Seed Corn, DeKalb, Illinois.



Planted by More Farmers than Any Other Hybrid Corn



"When he points, he really points!"

The Cover Picture

Be Sure to Buy Kansas-Grown Apples First

I CAN'T remember when Kansas apples have been of such high quality," says Kimball L. Backus, head of the marketing division of the Kansas State Board of Agriculture.

After touring some of the apple country up in Doniphan county we agree with Mr. Backus. There is an excellent crop of high-quality apples in Kansas this year.

In addition, Kansas housewives and those of other states who buy Kansas apples, will be assured of quality packs this year. Under the new Kansas marketing law the Wathena Apple Growers Association and the Troy Apple Growers Association, Inc., have requested state inspection and are grading apples under the U. S. Fancy, U. S. No. 1 and Utility Pack grades. George Groh, Wathena, a private packer, also has asked for state inspection and grading service.

"It has been some years," Mr. Backus explains, "since the Kansas apple crop has been sold on a grade basis. We believe grading will increase public acceptance of the Kansas-grown crop, and will help Kansas producers compete with those of Missouri and other

states where grading programs are in use."

At least some of the fine Kansas apple crop is being sold to the public thru roadside stands, such as that pictured on the cover of Kansas Farmer. The cover picture shows Mrs. H. W. Springstead, of near Wathena, and her son, Vern, getting ready for a day's trade. "The demand has been very good," reports Mrs. Springstead. "We sold all our apples out in a hurry and have had to buy more to keep going."

Tree run apples were selling at the Springstead stand for \$1.75 a bushel the day we stopped. The top graded apples from the 2 growers association sheds were moving at \$2.50 to \$2.75 a bushel. Prices were for early September.

Better Orchards

More than 50 years of experimental work in orchard soil management have been completed by the Kansas Agricultural Experiment Station, Manhattan.

Early experiments demonstrated the value of barnyard manure in orchards. Manure was found of value because of the nutrients and organic matter it contained. Many cover crops were tried, and those found satisfactory have been planted in orchards in Kansas and other states.

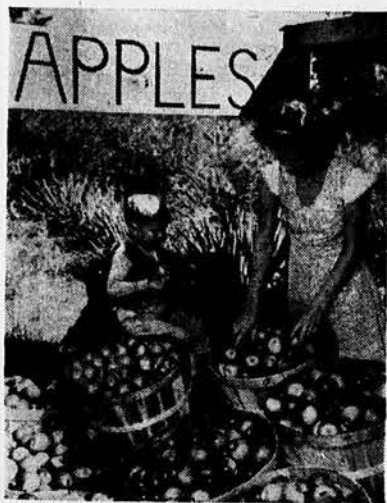
Later experimental studies have shown that Kansas orchard soils may be deficient in nitrogen, resulting in weak trees and poor yields. Also that an excess of nitrogen results in too much tree growth and a reduction in yield, coupled with poor color of the fruit.

A complete soil-management program for Northeast Kansas has resulted from studies at Manhattan and at the experimental orchard in Doniphan county.

Some results of these studies are that the average production of fruit per acre has been increased; new orchards are no longer being planted on unsatisfactory sites; there are better pest-control methods, improved varieties, different pruning methods, and provision for cross-pollination.

Useful Bottle

Don't throw away the leaky hot water bottle. I cut an oval opening in mine and hang it in the cleaning closet for oily dust cloths.—Mrs. L.



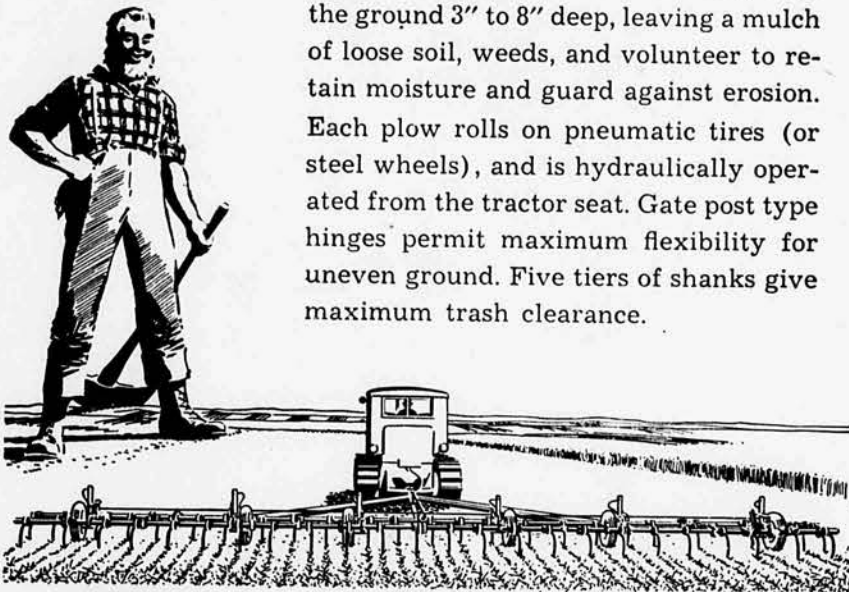
Mrs. H. W. Springstead and son, Vern, of near Wathena, get their roadside stand ready for the day's business. Kansas has a high-quality apple crop this year and Mrs. Springstead reports demand has been good.



This shot in the Wathena Apple Growers Association packing shed, at Wathena, shows some of the fine Kansas Jonathans being packed in bushel baskets for shipment. Most of the crop this year is being packed to U. S. grade standards under state inspection, a new service offered by the Kansas State Board of Agriculture marketing division.

A GIANT LAND-GOBBLER THE TOWNER "PAUL BUNYAN" PLOW

For large scale farming operations—Towner developed and field tested this giant Paul Bunyan plow ranging in size from 20 to 45 feet. This land-gobbler is a natural tool for large scale summer fallowing or cultivating. Cultivator shanks, with 12" duckfoot shovels, slice the ground 3" to 8" deep, leaving a mulch of loose soil, weeds, and volunteer to retain moisture and guard against erosion. Each plow rolls on pneumatic tires (or steel wheels), and is hydraulically operated from the tractor seat. Gate post type hinges permit maximum flexibility for uneven ground. Five tiers of shanks give maximum trash clearance.



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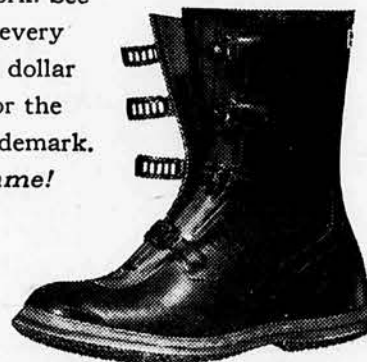
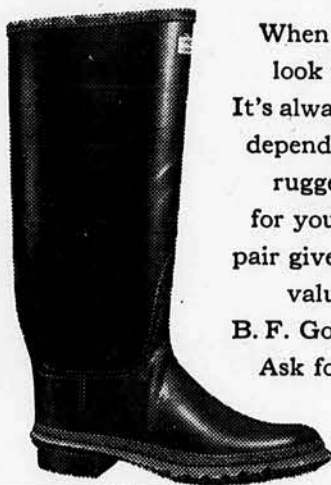
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MINUTE, AND ANY LIFT FROM
10 TO 300 FEET

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HASTINGS, NEBRASKA

**Can You Afford
\$21 an Acre for Alfalfa?**

CAN YOU afford to pay \$21 an acre on fertilizer for alfalfa? Perhaps another question is the best answer. Can you afford to pay \$10 a ton this fall for good alfalfa hay next summer? All that, of course, is assuming you need as much fertilizer as \$21 an acre. Most soil in Kansas needs less.

Those figures were developed from alfalfa fertility test plots conducted in Labette county this year by Warren Teel, county agent. Tests this year were made on the following farms, Clyde Johnson, A. J. Wagner and Elmer Shipley.

Fertilizer applications were heavy. They included 150 pounds of available phosphate. That is as much as 750 pounds of 20 per cent superphosphate. Potash was applied at the rate of 150 pounds, too. That would require 250 pounds of 60 per cent muriate of potash. Other applications included 20 pounds of borax an acre and 150 pounds of magnesium sulphate an acre.

Perhaps the easiest way to supply magnesium is thru dolomitic limestone and borax can be purchased at about 5 cents a pound.

See the Results

But look at the results on these 3 fields. Average yield on the check plots, no fertilizer, was 2,095 pounds of hay an acre for each cutting. Two cuttings were recorded on 2 farms, 3 cuttings on the third farm.

Highest yielding plots on all 3 farms were where a combination of phosphate, potash and borate was used. Total average yield for each cutting was 3,409 pounds an acre. That's an increase of 62.7 per cent over the check plot.

There it is. Cost of phosphate, potash and borate for such an application would be about \$21 an acre. But it produced an average of 1,314 pounds more hay for each cutting. Suppose you got only 2 cuttings of hay. That hay still would cost you less than it would on the open market.

Cost of the phosphate alone would be about \$13.50 an acre at that rate of application. Cost for potash an acre would be about \$6.50. Cost of borate used was only about \$1 an acre.

Next most successful test was the phosphate-potash-magnesium sulphate plot. Increase here was 47.6 per cent over the check plot. But the phosphate-potash combination alone was close behind with a straight 45 per cent increase.

Phosphate alone showed a 31.8 per cent increase, where potash alone showed an almost negligible increase, 0.095 per cent.

Altho the potassium plot gave the smallest increase of all, there is an-

other factor about potash which must be considered. There is some evidence which indicates potash will help keep a good stand of alfalfa over a longer period. That condition was observed on the Thayer experiment field before it was plowed up this summer. Alfalfa fertilized with phosphate alone was dying out after about 7 years. Alfalfa the same age fertilized with phosphate and potash was still going strong.

Last More Than Year

Apparently those heavy applications are good for more than one year. A similar test was made on the Robert Shufelt farm, Labette county, a year ago. This year, the second year for this test plot, the heavy applications still were going strong. Only the first cutting was sampled, but the yield on the phosphate-potash-borate plot was 4,632 pounds of hay an acre. Yield on the check plot was 2,712 pounds of hay. A 70 per cent increase. Yields in other plots corresponded closely with first-year tests in the other 3 fields.

That may seem like a lot of fertilizer to use, but even that is less than farmers use in states older than Kansas. It is not uncommon in places to use as much as \$30 an acre in fertilizer for establishing stands of alfalfa.

And the chances are that only a few farms in Kansas will require even that \$20 outlay for maximum yields. The best way to be certain you are applying the proper amount is to have soil tested, or to check your fields against fertility test plots in your own area.

Electric Fan Uses

An electric fan is a good year-around aid. Set it on the basement sill to drive out the steamy atmosphere of wash-day; or in the kitchen to dispel food odors; by setting the fan in a closet or wardrobe it is a good airing machine. —K. E.

To Clean File

An easy, yet effective way to clean a dirty file, and thus increase its efficiency, is to lay a piece of ordinary adhesive tape over it, press lightly and remove. Repeat the process several times if necessary. —B. E. M.

Helps Tots

An apple, after all, is really pretty big for young hands to clutch securely. Two or three bites and the washed and polished apple slips to the dirt. Try coring the apple, running a string, neck-lace length, thru it. Tied around the tot's neck, the apple will then stay clean for the duration of the eating. —Mrs. W. H.

GRANDMA . . . By Charles Kuhn



CHARLES KUHN 9-10

PIONEER

Last Spring more farmers planted more bushels of PIONEER Hybrid Seed Corn than ever before in history.

And — present trends very clearly indicate that more farmers will order more bushels of PIONEER Hybrid Seed Corn — for planting next Spring — than ever before in history.

To make every last acre of your 1950 corn acreage produce every possible bushel of corn — make it ALL PIONEER Next Year. See your local PIONEER Sales Representative TODAY.

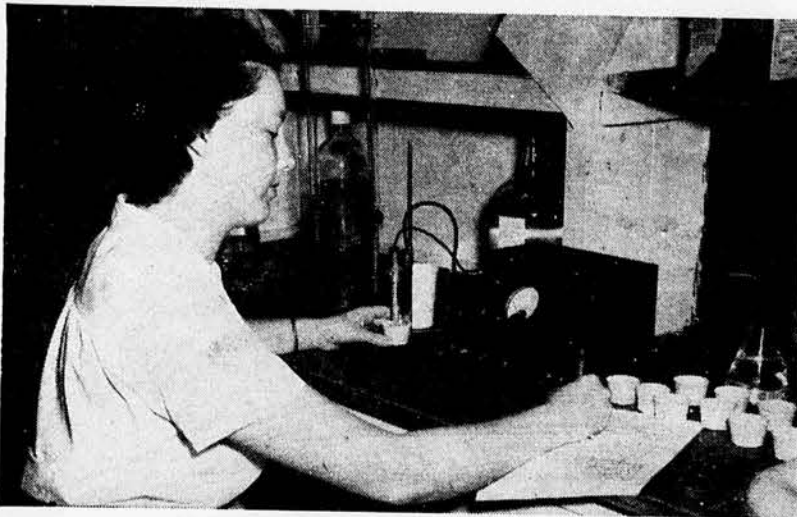


Make It All PIONEER - Next Year

Five More Laboratories

That Many Counties Start Soil Testing This Fall

By ED RUPP



The limemeter is being used in each of the 5 new county soil testing laboratories in the state. It tells how many tons of lime soil needs. Operating the machine is Ruth Young. She is the laboratory technician in Labette county.

FIVE more county soil testing laboratories have been established in Kansas. That brings the total of county laboratories to 6. And areas not serviced by local installations can receive the same tests by sending soil samples to the state laboratory at Kansas State College, Manhattan.

This business of county laboratories started early this year in Cowley county, at Winfield. The 5 recent additions are in Labette, Crawford, Bourbon, Butler and Brown counties. Most counties have set test charges at \$1 for each sample. The same charge is made for similar tests at the state laboratory.

Extension agents in these 5 counties received schooling in soil testing techniques and interpretations last summer. The special course was provided them by the agronomy department at Kansas State College. Dr. R. V. Olson, professor of soils at Kansas State, heads the state soil testing laboratory. He conducted the special school for these county agents and now continues to help them with individual problems which may arise in the county laboratories.

Among the 5 new laboratories, one of the first to get into operation was Labette county. Response in this county

was astounding. About 100 soil samples were brought into the office of Warren Teel, county agent, the first 2 weeks after his laboratory was opened. And 75 per cent or more of these samples came from fields that were being seeded to alfalfa this fall, Mr. Teel reported.

Early tests made in Labette county showed many results that were expected when viewed from crop histories and results of fertility test plots in the area. But the degree of plant food deficiencies in many cases was more extreme than expected.

For example, it was known that soil in Southeast Kansas is deficient in phosphorus. But Mr. Teel says he didn't expect many soils to be as low as the tests indicated. In one soil sample brought to his office he could find no available phosphorus. Phosphorus just didn't register on the spectrophotometer.

In the first 26 samples run, not one soil was found with a high phosphorus content. Only 2 showed medium amounts of the element available in the soil. The remaining 24 were low.

Potassium contents of soils in that area as revealed by the tests were a bit surprising. It has been known that some soils in Southeast Kansas are low in potash. But in the first 26 tests made

in Labette county, only one showed high in potassium. About 4 contained medium amounts. Fully one third of the soils tested were definitely low in that important element.

And a large number of the soils are running low in organic matter. In the first 26 tests the highest organic matter reading was 2.2 per cent. Two thirds of the soils rated 1 per cent organic matter or less. A reading of 3 per cent would be fair, 4 good, 5 strong.

This organic matter test is being used experimentally in Kansas to learn whether it can be used as an indicator of potential nitrogen release by soil. So far they do indicate that more use of nitrogen bearing fertilizers and strong legumes in rotation would be beneficial and practical from a cost standpoint.

Extra Effort Worthwhile

There is one thing certain about these county laboratories. They are placing even more work on the county agents. But these agents believe the extra effort will be well worth the time, since knowledge of soil and plant food use is basic in today's agriculture.

To help farmers understand the reports from the soil tests, a few agents are thinking about special clinics. After a certain number of tests have been completed, say on 15 or 20 farms, agents will call a special meeting of these farmers to discuss the results. That, too, should develop better understanding of soil needs as well as tests.

For the most part, these county laboratories have been purchased with money provided by farmers in the communities. And that is a healthy situation. In some cases the money was already available. In others farmers advanced sufficient money to make the purchase. The advances are being

Kansas to Test Roses

By WILLIAM G. AMSTEIN, Kansas State College

ALL KANSANS can take genuine interest and pride in an announcement that Gage Park, Topeka, has been designated as the newest test garden for study of new rose varieties. All-America Rose Selection Inc., an association of the country's leading rose growers and nurserymen, has made this choice.

This testing program originally was introduced 10 years ago to assist in selecting roses of the highest quality for U. S. gardens. No one gardener can possibly take time to determine the value of the several thousand varieties available.

The All-America system of "pre-testing" roses requires that new varieties undergo a 2-year trial in gardens thruout the country. During this trial period, they are thoroly studied under widely varied soil and climatic conditions. They must pass this test before they are put on the market.

Test gardens are located at universities, nurseries and municipal gardens where impartial reports can be obtained under actual growing conditions. For example, each plant is checked for hardiness, fragrance, length of flowering period and all other important qualities. Plants are known in these tests only by a code number. They are scored on the basis of a uniform point system. Only those meeting rigid All-America standards over the 2-year trial period may be awarded the coveted title of "All-America Rose Selection."

Test Garden

Gage Park, Topeka, makes the 19th official test garden. There are also 6 demonstration gardens where directors do regular scoring over the 2-year test period. This provides a preview of proposed new varieties in different sections of the country.

The Topeka test garden will be under direction of Harold Richardson, who will be assisted by Dr. Homer Jamison. New varieties will be tested in the Reinisch Rose Garden, a special section of the park. At present, the garden contains 12,500 roses besides a number of test varieties. The official testing program will begin next spring when plants entered in the 1950 All-America trials, for 1952 introduction, will be planted.

The All-America testing program has proved invaluable, not only to the amateur gardener, but to the nurseryman as well. It enables him to grow or contract for the varieties that will be

For School Lunches

Mothers are now busy thinking about school clothes and lunches for the children. The new leaflet, "Sandwiches Around the Clock," contains a variety of sandwich recipes, also picnic sandwiches, and suggestions for teen-age snacks, the family meal sandwich, and midnight lunches. A post card request addressed to Farm Service Editor, Kansas Farmer, Topeka, will bring you a copy of the leaflet.

applied to soil tests on these farms.

Cost of the 5 most recent laboratories is larger than the cost of the first one established at Winfield. One reason is that a spectrophotometer is being used instead of photometer. The spectrophotometer cost about \$200 more. But it is a better piece of equipment. There are no temperature worries in the newer laboratories. No filters are required in the spectrophotometer, which adds to the reliability of the report.

Then, too, each of the 5 new laboratories is using a limemeter as added equipment. With the limemeter accurate determinations are possible on the degree of acidity or alkalinity of the soil. From these readings determinations on the amount of limestone or calcium are made.

These county laboratories already are serving a useful purpose. In time, it will be possible to correlate soil tests with fertility test plots in those counties. The results should tend to strengthen the validity of interpretations made from those soil tests.

in heavy demand. Since 1940, when the first selections were made, 28 roses have won the All-America designation and have taken their places with the leading favorites.

The four 1950 winners, which will be available to gardeners for planting this fall will hold the center of the stage in many gardens next summer. Fashion, a floribunda, is coral suffused with gold, a color entirely new in roses; Capistrano, a hybrid-tea is a glowing rose pink; Mission Bells, a hybrid-tea, is a deep salmon pink; and Sutter's Gold, hybrid-tea, is a rich yellow shaded with orange and red in the bud stage.

The All-America Rose Selection official test gardens are located at:

West Coast: Woodland Park, Seattle, Wash.; International Rose Test Gardens, Washington Park, Portland, Ore.; Armstrong Nurseries, Ontario, Calif.; Howard & Smith, Montebello, Calif.; Jackson & Perkins Co., Pleasanton, Calif.; Clyde H. Stocking, San Jose, Calif.

Central U. S.: Texas Rose Research Foundation, Tyler, Tex.; Municipal Park, Tulsa, Okla.; Gerard K. Klyn, Mentor, Ohio; Iowa State College, Ames, Ia.; Lyndale Park, Minneapolis, Minn.; Gage Park, Topeka, Kan.

East Coast: Elizabeth Park, Hartford, Conn.; Department of Floriculture, Cornell University, Ithaca, N. Y.; Penn State College, State College, Penn.; H. G. Hastings Company, Atlanta, Ga.; Bobbink & Atkins, East Rutherford, N. J.; Jackson & Perkins, N.Y.; The Conard-Pyle Company, West Grove, Penn.

The All-America Rose Selections demonstration gardens are located at: Breeze Hill Gardens, Harrisburg, Penn.; Mount Arbor Nurseries, Shenandoah, Ia.; Roseway Nurseries, Portland, Ore.; Rancho del Descanso, La Canada, Calif.; Howard Rose Co., Hemet, Calif.; and Porter-Walton Co., Salt Lake City, Utah.

These are 81 proposed new varieties under test in 1949, where the public can inspect them at the above locations.

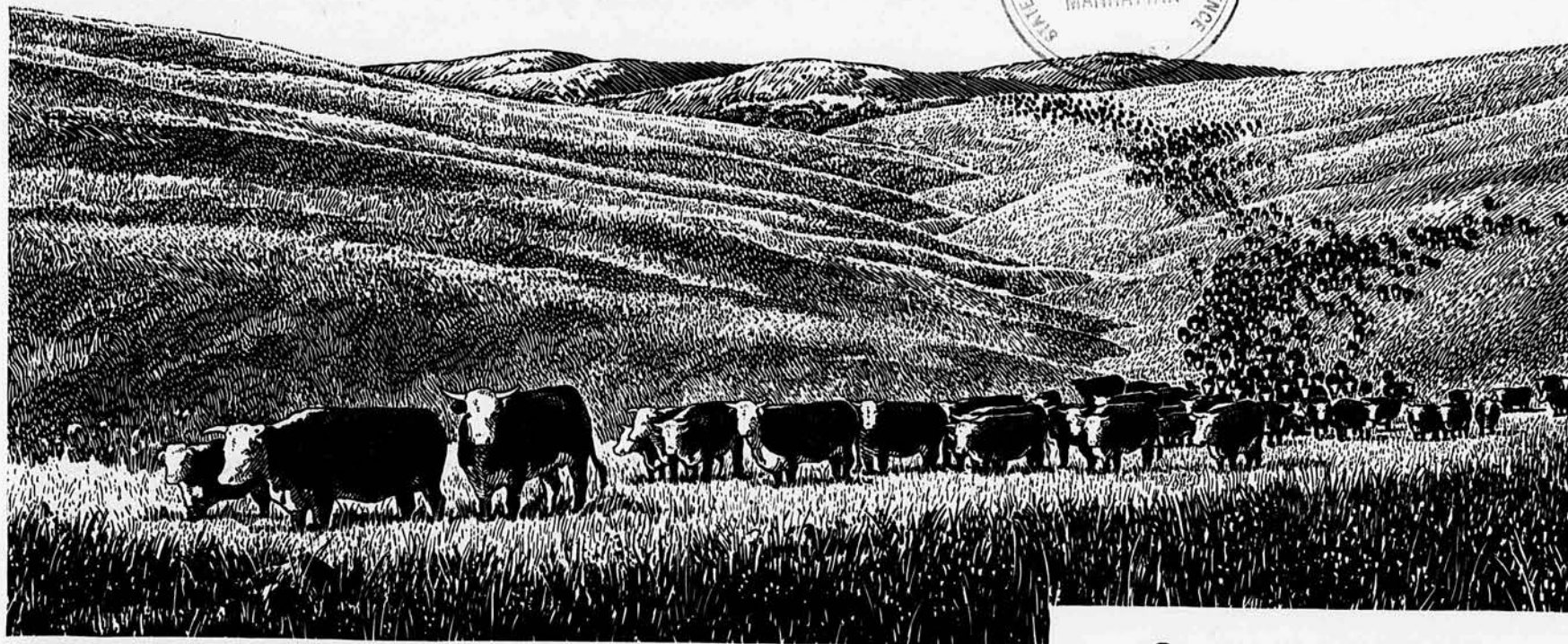
Set the Colors

Before washing those print feed bags that are intended for clothing that must be laundered often, soak the print bag in salt water made by adding 1 tablespoon of salt to each gallon of water. This sets the colors and garments stay bright much longer.—Mrs. A. L.



Warren Teel, Labette county agent, adjusts the spectrophotometer to make a phosphorus test. This machine costs about \$200 more than photometers used extensively by county laboratories in other states. But indications are it will be well worth the added cost.

Rivers of grass...



"Rivers of grass" flow across this country. Millions of cattle and lambs have spent the spring and summer turning grass into meat. Now they are ready for round-up and shipment. So in October they move to the markets—in a great flood of livestock. Many go direct from the range to meat-packing plants. Others go to the feed lots to be grain-finished. But, either way, these meat animals are mostly grass—which folks cannot eat—converted into appetizing, nourishing meat for people. They are adding greatly to the health and wealth of the nation. Without this "livestock economy," in which you and we are engaged, 779,000,000 acres of our United States would produce little food for human use.

Whether you ship your cattle and lambs early or late—whether it's to Chicago, Ft. Worth, Denver or any of scores of other markets—you'll find buyers there to bid for them. With many others, Swift & Company helps provide the year-'round daily market which is as essential to your business as it is to ours.

Your grass, turned into meat, is a vital raw material of all meat-packing operations. There is keen competition for it. Every meat packer and commercial slaughterer (and there are more than 18,000 of them in the United States) must have a regular supply of meat animals. Each buyer knows the high bid gets the animals. He knows also that his own price range is set by supply and demand. He sees your steers and lambs as so many pounds of meat and by-products. The price you are offered for your livestock is governed by what the meat packer can get for the meat and the by-products.

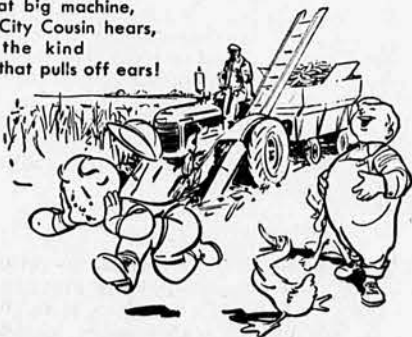


Soda Bill Sez . . .

The communist believes no man should be rich; the capitalist believes no man should be poor.

OUR CITY COUSIN

That big machine, City Cousin hears, is the kind that pulls off ears!



Your Markets for Meat



In the early days of our country, livestock was produced close to the point where it was eaten. But as the population grew, those conditions changed. Today two thirds of the people live east of the Mississippi, while two thirds of the livestock is produced west of that river. To bridge that gap of more than 1,000 miles is no small job. Millions of head of livestock must be processed and the meat distributed to where it is wanted. The facilities of nationwide meat packers provide you with markets for your meat animals; move the meat to cities and towns where it is in demand.

Swift & Company, and other nationwide meat packers, sell meat to retailers wherever there are people who want to buy it . . . no matter how far that may be from your farm or ranch. We bring you the benefit of national, rather than local, demand. This means that, in selling your livestock, you choose between the price created by local demand, or the price created by the national demand of millions of meat eaters.

We work hard to encourage people to serve meat oftener—to eat more of it . . . And we are proud that our nationwide system is one of the most efficient, low-cost food distribution systems in the United States.

P. M. Jarvis

P. M. JARVIS
Vice-President,
Swift & Company

Martha Logan's Recipe for

SAUSAGE AND CORN BREAD

(Yield: 6 servings)

- | | |
|-------------------------|--------------------------------|
| 1 lb. pork sausage meat | 1 tsp. soda |
| 1 1/2 cups corn meal | 1 cup sour milk |
| 1/2 cup sifted flour | 1 egg |
| 1/2 tsp. salt | 2 tbsp. pork sausage drippings |
| 1 tsp. baking powder | |

Brown pork sausage meat thoroughly in heavy skillet (about 9 inches in diameter). Drain off drippings. Sift together corn meal, flour, salt, baking powder, and soda. Combine egg and milk and heat until well combined. Add 2 tablespoons drippings to milk and egg mixture. Pour liquid into dry ingredients and stir just until well mixed. Pour batter over pork sausage in heated skillet. Bake in moderately hot oven (450°F.) until well browned, about 30 to 35 minutes. Serve hot as main luncheon dish.

Quotes of the Month

"We, as ranchers, are not sufficient unto ourselves. In fact, we are only the beginning of the beef line. Of equal importance are the feeder, the processor, the distributor and the consumer. Disregard the rights or welfare of any of these, and sooner or later we suffer."

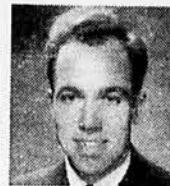
Sam R. McKelvie
Pres. Sandhills Cattle Ass'n

"He gave it for his opinion that whoever could make two ears of corn, or two blades of grass, to grow upon a spot of ground where only one grew before, would deserve better of mankind, and do more essential service to his country, than the whole race of politicians put together."

Gulliver's Travels (written in 1726)

Supplement that Poor Forage

by Robert D. Rasmussen
New Mexico A. & M. College



R. D. Rasmussen

Dried-up pastures and winter weather create the same feeding problem for the cattleman. They simply mean that you have lower quality feed and less of it. And you have little choice as to what you can do about it. You can let the cattle eat what they can find. In this case you're likely to take a weight loss on your cows. You'll also take a chance on a weak calf crop. Or you can feed a supplement. If you feed enough of the right kind, your cows and unborn calves will come through in good, healthy condition.

California experiments on deficient range showed the cow herd that got a protein supplement produced a 91% calf crop. Cows on similar range, without a supplement, produced a 61% calf crop. Arizona found that feeding supplement increased the weight of the calves at birth by 10 pounds.

The amount of supplement needed varies. Cows carrying calves, and young stock require more protein than open cows or mature animals. A safe rule to follow is to watch the condition of the stock. Keep them healthy and thrifty.

Research by the New Mexico agricultural experiment station shows that during the winter months range forage is most critically short of phosphorus as well as protein. While some of the cake supplements are high in phosphorus as well as protein, most ranchers over the state are using mineral supplement for year-round use. A mineral supplement containing at least 6% phosphorus should be made available at all times to range cattle. Experiments have shown that year-round use is better and more profitable than seasonal use.

Here's a goal for cattlemen. Use whatever kind and amount of supplement is necessary to keep your cattle healthy and thrifty. (Editor's Note: The principles of animal nutrition discussed above apply in all parts of the country.)

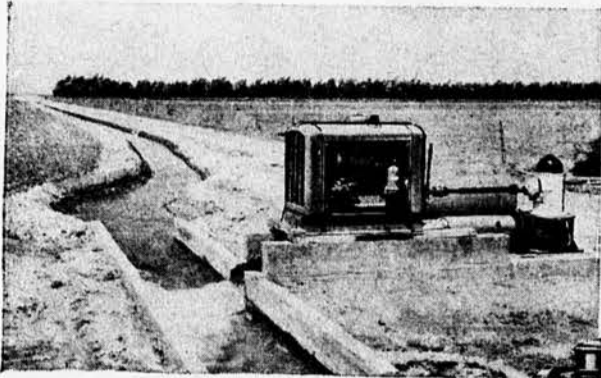
Swift & Company

UNION STOCK YARDS, CHICAGO 9, ILLINOIS

Nutrition is our business—and yours

CHOOSE GM DIESELS

FOR BIGGER FARM PROFITS

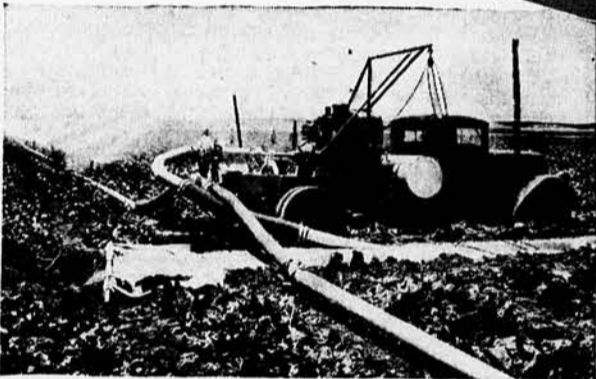


PUMPING 3,500 GALLONS PER MINUTE into irrigation ditches, this 4-cylinder GM Diesel on a pump in Texas uses only three gallons of Diesel fuel per hour.

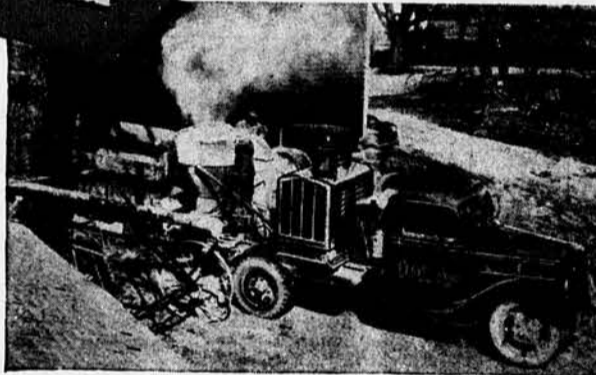


GM-DIESEL-POWERED Allis-Chalmers tractor on Washington ranch, plows wheat stubble in third gear going uphill. Powerful and easy riding, this HD-5 tractor is pulling two 4-bottom, 14-inch plows.

RAIN MADE TO ORDER. This mobile overhead irrigation system, powered by a 3-cylinder GM Diesel, puts down nearly three acre-inches of water an hour for bumper crops of sugar beets in California.



PRODUCTION WENT UP 50%—and fuel costs dropped two thirds—when an Iowa miller replaced gasoline power with GM Diesels on portable feed mills. The oldest unit has been in service three years without overhaul.



FROM cotton ginning to feed grinding—from plowing to pumping—wherever you use power, General Motors Series 71 Diesels will get more work done—and get it done at lower cost. They use safe, inexpensive fuel and squeeze maximum power out of every drop.

They are 2-cycle, which means they deliver power on every piston down-stroke. They're more compact, smoother in operation and easy to maintain. This modern Diesel power is making money for others—it will make money for you. Let us give you all the facts.

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Low Cost - Easy to Install
Takes the heavy work out of unloading — gets the job done fast! Any farmer, trucker, etc. can afford one. Fits all trucks — all beds. Simple to attach — you can do it yourself. Does not change the chassis in any way. No hydraulic cylinder to adjust and service — LITTLE GIANT works equally well in hot or cold weather. Easy-crank operation. Only \$70 and up. More LITTLE GIANTS in use than any other. Absolutely guaranteed. Write for details and prices.
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1570 N. Adams St., Peoria, Ill.

An Invitation To Kansas Farmer Readers

IT'S a pleasure on our part to extend to all our subscribers an urgent invitation to turn to the Classified Section.

If you like to see color on poultry ads, write and tell the advertisers.

"Freed from NERVOUS WORRY"

"My nervous state was due to drinking coffee. Switching to POSTUM calmed me—I stopped worrying and began to really enjoy life!"

SCIENTIFIC FACTS: Both coffee and tea contain caffeine—a drug—a nerve stimulant. So, while many people can drink coffee or tea without ill-effect—others suffer nervousness, indigestion, sleepless nights . . . POSTUM contains no caffeine or other drug—nothing that can possibly cause nervousness, indigestion, or sleeplessness.

MAKE THIS TEST: Drink POSTUM exclusively for 30 days—judge by results! . . . INSTANT POSTUM—A Vigorous Drink made from Healthful Wheat and Bran.



Free Fair Draws Many Home-State Exhibitors

ALTHO the 69th Kansas Free Fair at Topeka was the best ever from the standpoint of exhibits, unfavorable weather cut attendance below the 1948 figures, according to Maurice W. Jencks, manager.

In the livestock exhibits there were more Kansas breeders represented and fewer of the professional out-of-state herds. The hog show at the Free Fair probably was the outstanding event, with the Angus show a close second. Top winners were as follows:

Swine

Poland Chinas: Senior and grand champion boar, Rowe & Son, Scranton, on Dress Parade; junior champion, C. R. Rowe on Royal Parade; senior and grand champion sow, Rowe & Son on Challenger's Beauty; junior champion, Rowe & Son on Fairy Lady.

Hampshires: Senior and grand champion boar, Theodore Binderup, Gibbon, Nebr., on Good Bet; junior champion, O'Bryan Ranch, Hiattville, on Chippewa; senior and grand champion sow, O'Bryan on O'Model Jennifer; junior champion, Binderup on Blue Bonnett.

Duroc-Jerseys: Senior and grand champion boar, Harvey A. Deets, Gibbon, Nebr., on Crimson Wonder; junior champion, Clarence and Alex Miller, Alma, on Modern Marvel; senior champion sow, George E. Carlson & Son, Saronville, Nebr., on Miss Royal 1st; junior and grand champion, Deloris Jones, Lane, on Beauty.

Chester Whites: Senior champion boar, Orville Hinkle, Powhattan, on Arkay's Type; junior and grand champion, Lloyd Cole, Meriden, on an unnamed entry; senior champion sow, Eldon Mosler, Oswego, on Model Lady 2nd; junior and grand champion, Delaine Hinkle, Powhattan, on Sunshine Peach.

Hereford: Senior and grand champion boar, Bert F. Lyon, Sac City, Ia., on Proof Positive; junior champion, Booz & Son, Portis; senior and grand champion sow, Lyon, on Miss New Look; junior champion, Lyon, on Miss Iowa.

Berkshires: Senior champion boar, Otto Stelter, Towanda, on Frain's Fascinator; junior and grand champion, Stelter, on Stelter's Defender Champ; senior champion sow, Stelter, on Blakie's Miss Perfection 5th; junior and grand champion, T. E. Frain, Minneapolis, on Abby Suzanne 2nd.

Spotted Poland Chinas: Senior and grand champion boar, Wayne L. Davis, Mahaska, on Decision; junior champion, Davis, on Call Boy; senior and grand champion sow, Dale Konkel & Son, Haviland, on Perfection Girl; junior champion, Davis, on Grand Way Beauty.

Market Barrows: Grand champion barrow, Jerald Draney, Fairview, on Draney's Derby, a Chester White.

Sheep

Shropshires: Champion ram, C. G. Myers, Memphis, Mo.; champion ewe, C. G. Myers, Kansas bred flock, H. E. Heiser, Ramona.

Hampshires: Champion ram, Glen Armentrout & Son, Norborne, Mo.; champion ewe, Waldo & Ethel Poovey, Belle Plaine; Kansas bred flock, Waldo and Ethel Poovey.

Suffolks: Champion ram, Roy B. Warwick, Oskaloosa, Ia.; champion ewe, Mr. and Mrs. Sylvester Martin, Mt. Hope; Kansas bred flock, Mr. and Mrs. Sylvester Martin.

Southdowns: Champion ram, Duron H. Howard, Waurika, Okla.; champion ewe, Harold Tonn, Haven; Kansas bred flock, Faye McClure, Newton.

Dairy

Jerseys: Junior champion bull, Smith Brothers, Highland, on Highland Standard Lad; senior and grand champion, Harry C. Kelman, Arlington, on Applesome Design; junior champion female, James E. Berry, Ottawa, on Geonnais Princess Penny; senior and grand champion, Smith Brothers, on Fancy Lad Applesome; Kansas Parish herds, N. E. Kansas Parish, 1st.

Holstein-Friesians: Junior champion bull, Grover G. Meyer, Basehor, on Springrock Don Lad; senior and grand champion, Ronald Robb, Lawrence, on Design Pontiac Claude; junior champion female, M. Hubbard, Emporia, on Cliffview Segis Inspiration; senior and grand champion, Grover G. Meyer on Madge Spechel Aurora; Kansas District Black and White Herds, East Central District, 1st.

Milking Shorthorns: Junior champion bull, Weidner Prairie Farm, Dalton City, Ill., on Welsh's Colonels Pride; senior and grand champion, Weidner, on Prairie Farmer Supreme; junior champion female, Frances Torkelson, Everest, on Cedarlawn Princess Pat, senior and grand champion, Kenneth Wyatt, Garnett, on Hillside's Rosebud; Kansas District Herds, S. E. Kansas District, 1st.

Ayrshires: Junior champion bull, Ray Gascha, Wichita, on Snappy Red Prince; senior and grand champion, W. S. Watson, Hutchinson, on LeMoines Points Sir Henry; junior champion female, Watson on Ayr-Line Super Gene; senior and grand champion, Watson, on Ayr-Line Royal Girl; Kansas district herds, Mid-Kansas, 1st.

(Continued on Page 13)

Guernseys: Junior champion bull, Kent E. Hayes, Oklahoma City, on Meadow Lodge Armistis; senior and grand champion, Ransom Farms, Homewood, on Ransom Fidget's Fireman; junior champion female, Hayes, on Meadow Lodge Bettera; senior and grand champion, Hayes, on Meadow Lodge Queen Mella.

Brown Swiss: Junior champion bull, Elmer Cogswell, Alma, on Jane's Champion of Law; senior and grand champion, Dan Miller & Son, Ft. Scott, on Hilunda Elijah Dusty; junior champion female, Paul Timmons, Fredonia, on Adaline's Daisy Gal; senior and grand champion, Miller & Son on Foxwood Dusty Hilunda; Kansas Canton Herds, Eastern Canton No. 1, 1st.

Beef Cattle

Aberdeen-Angus: Senior and grand champion bull, Central Illinois Angus Association, Congerville, Ill., on Barbra Juana's Eric; reserve senior and grand champion, S. E. Fifield, Olathe, on Homeplace Ellenmere 39; junior champion bull, Sunflower Farm, Everest, on Ever Prince Star; reserve junior champion, F. M. Bradley & Sons, Avon, Ill., on Bradolier 30.

Senior and grand champion female, Sunflower Farm, Everest, on Miss 487 of Highland; reserve senior champion, Simon Angus Farm, Madison, on Glamour Jilt of Maize; junior and reserve grand champion female, Fifield, on Georgina Erica of Blackpost; reserve junior champion, Central Illinois Association on Blackcap Empress 3rd of Kenmore; champion steer, Kansas State College; county herds, Clark county, 1st.

Shorthorns: Champion bull, Kansas State College, on Gregg Farms Hoarfrost; reserve champion, William E. Thorne, Lancaster, on Mercury Major; champion female, O. H. Deason & Son, Fort Cobb, Okla.; reserve champion, Kansas State College, on Gregg Farms Vinolia 11th.

Herefords: Champion bull, Foster Farms, Rexford, on FF Alpine Domino 32; reserve champion, Stelbar Ranch, Douglass, on SR Larry Domino 46; champion female, CK Ranch, Brookville, on CK Cluny Brown 6; reserve champion, Honey Creek, Grove, Okla., on HCR Duchess 55C; county herds, Cowley county, 1st.

Quarter Horses

Grand champion stallion, R. O. Sutherland, Kansas City, Mo., on Ready Cash; grand champion mare, Sutherland on Sutherland's Roberta.

American Saddle Horses: Grand champion stallion, W. W. Stogsdill, Topeka, on Gold Command.

Horticulture

Apples: Commercial tables, Herman Morkau, Wathena; 5 trays, John Muench, Blair; 3 trays, Ben Davis, Dubach Brothers, Wathena; 3 trays Delicious, Kansas Fruit Farm, Troy; 3 trays Golden Delicious, Dubach Brothers; 3 trays Grimes Golden, Dubach Brothers; 3 trays Jonathans, Herman Morkau, Wathena; 3 trays, Winesaps, Herman Morkau.

Agriculture

Corn: Champion 10 ears open-pollinated, Rolla Freeland, Effingham; champion 10 ears yellow hybrid, H. C. Olsen, Everest; champion 100 ears yellow hybrid, H. C. Olsen; 1st place 10 ears white hybrid, Leo Wenger, Willis; 1st place 100 ears white hybrid, Norris Rice, Meriden; 1st place 10 ears white open-pollinated, Shirley Rice, Valley Falls.

County Educational Booths

Labette county first with a booth on artificial insemination. Shawnee county second on a booth showing use of nitrogen on field crops.

New Dairy Awards

New championship awards in 4-H Club dairy projects in Kansas will be sponsored this year by the National Dairy Products Co., Inc., and its member companies over the state.

Efficiency in dairying will be the main objective of the awards, counting for 60 per cent. General 4-H Club records will count the remaining 40 per cent in selecting winners.

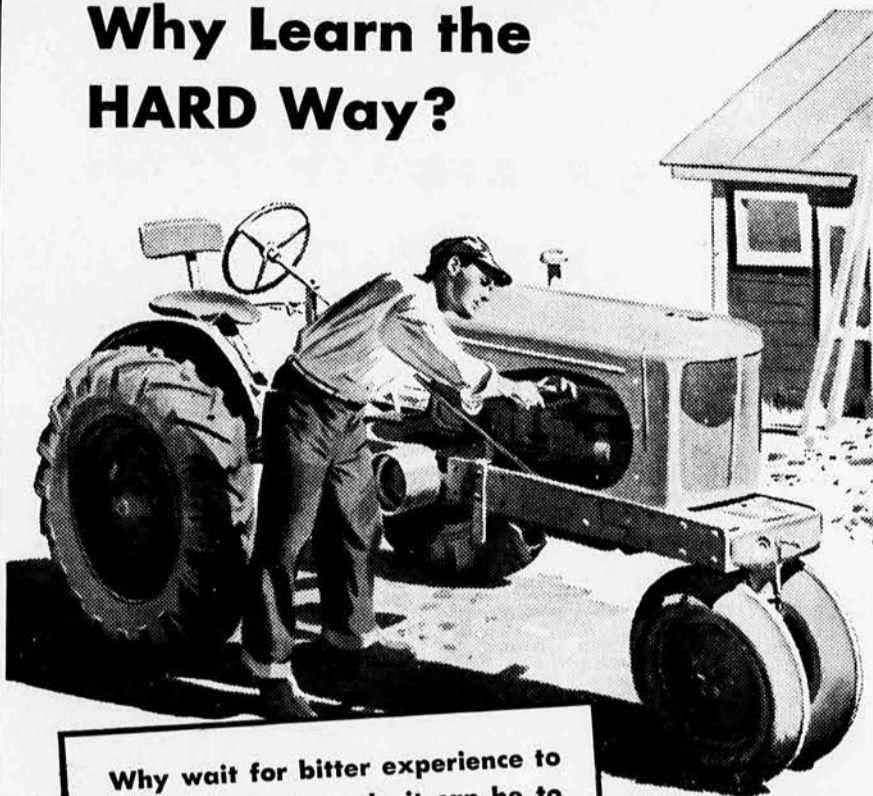
A trip to the National 4-H Club Congress, in Chicago, is made to the state champion, a \$50 Bond to second highest-ranking project member, and bronze plaques to first and second winners.

Turkey Crop Up

The second-largest turkey crop in history is being marketed this fall. U. S. production will run above 41 million turkeys, which is second only to the 1944 crop of 44 million.

California will market 6.3 million turkeys to lead the states, Texas next with 4.2 million and Minnesota third with 3.7 million.

Why Learn the HARD Way?



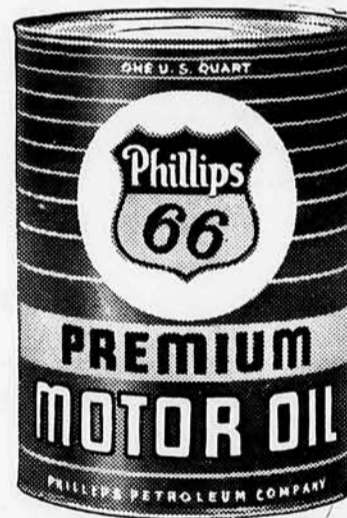
Why wait for bitter experience to teach you how costly it can be to be careless about the Motor Oil you use in your tractor or car?

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Phillips 66 Premium Motor Oil Provides Lubrication *plus* Engine Protection!

These days you just can't afford to take chances with the motor oil you use. Delays due to breakdowns can cost you plenty! Crops won't wait while you make repairs or send for spare parts. To help guard your equipment . . . and your pocketbook . . . use tough, sturdy, dependable Phillips 66 Premium Motor Oil. It lubricates as only a quality oil *can* lubricate! In addition, it helps keep engines clean . . . helps prevent the formation of sludge and varnish because it contains chemical additives for that very purpose!

This combination of lubrication *plus* engine protection is called "Lubri-tection." To get "Lubri-tection" ask your Phillips 66 Dealer or Tank Truck Salesman for Phillips 66 Premium Motor Oil.



Built for Long Life—PHILLIPS 66 TRACTOR TIRES

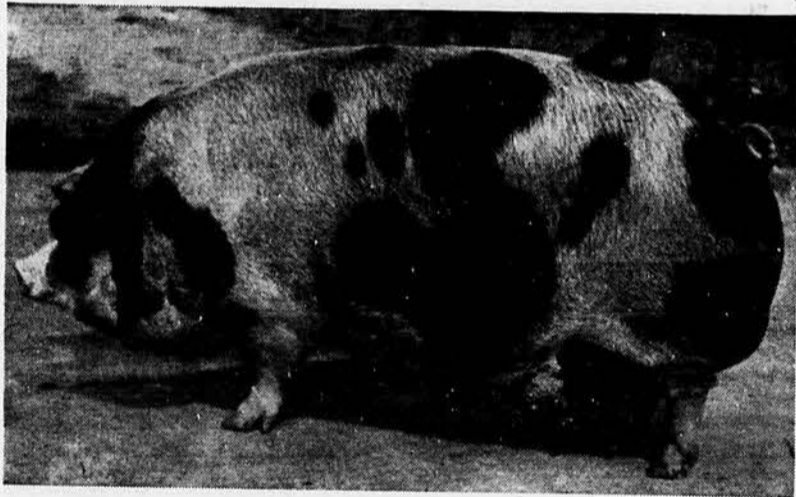
You get the combined advantages of sturdy construction and scientific tread design when you choose Phillips 66

Tractor Tires. Get them from your Phillips 66 Dealer or Tank Truck Salesman.

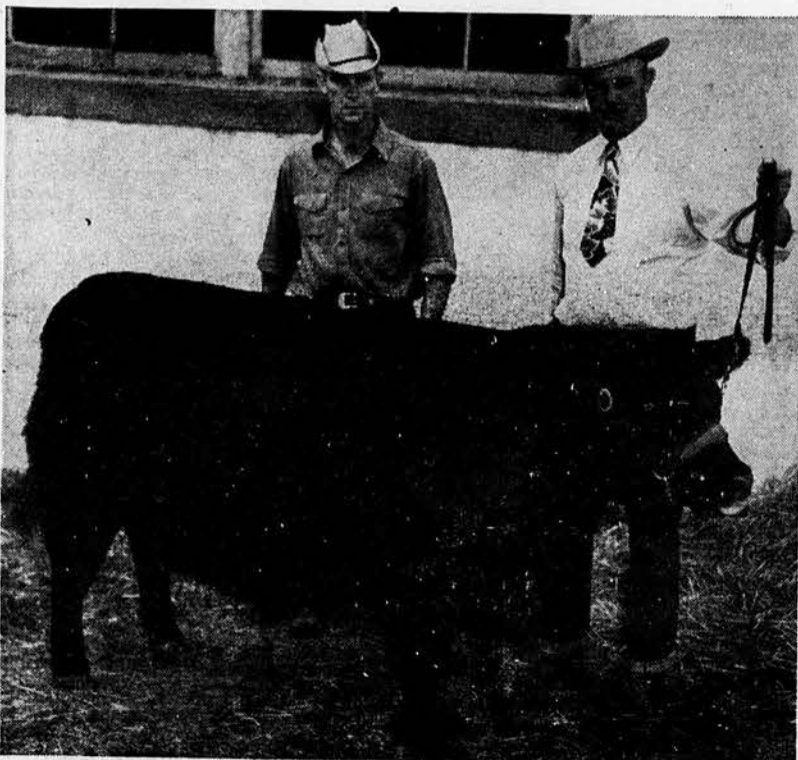
PHILLIPS 66 PREMIUM MOTOR OIL



LISTEN TO THE "PHILLIPS 66 NATIONAL BARN DANCE" Sat. night, on your ABC Station. See your newspaper for time.



Perfection Girl, grand champion Spotted Poland sow at the Kansas Free Fair, was exhibited by Dale Konkel & Son, Haviland.



Bob Swartz, left, and Keith Swartz, Sunflower-Farms, Everest, pose with Miss 487 of Highland, the champion Angus female at the Kansas Free Fair, Topeka.

Your Own Test Proves Them Best..

BALL-BAND IS THE FARM FAVORITE!



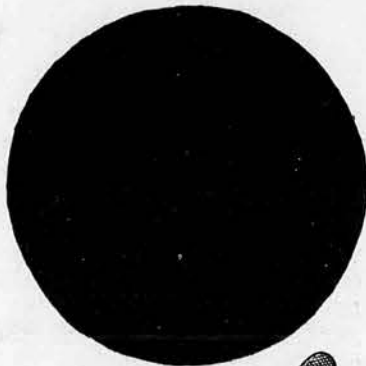
Freezing cold, mud and slush, rugged work on the farm . . . a tough test of footwear quality!

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With your check or M.O., specify dates tickets are desired. Orders must be received by Oct. 8. Best seats available Sat., Sun., Mon., Tues. MATINEES: First 10 Rows of Center Section and First 2 Rows of End Section, \$1 plus gen'l adm. Other seats, 75c plus gen'l adm. NIGHTS: First 7 Rows, \$2.50 plus gen'l adm. Next 7 Rows, \$2 plus gen'l adm. Balance of House, \$1.50 plus gen'l adm. Gen'l Adm., Adults, 75c. Children under 12: 35c. Prices include tax.

AMERICAN ROYAL ASSN.
Livestock Exchange Bldg., K. C. Mo.

MISSOURI DAY: Mon., Oct. 17
KANSAS DAY: Tues., Oct. 18
OKLAHOMA DAY: Wed., Oct. 19

Thoughts TO LIVE BY

Persuasion

HOW do we get people to do what we want them to do? By coercion? Or by persuasion? Both are used, of course. Force is employed to restrain criminal action. From all appearances, it looks as if it will be needed for a long time to come. When people think of power, they usually think of coercion. Power politics is based upon it. The atomic bomb is considered the check upon aggression. Acknowledging all this, one can still make a strong case for persuasion, for in the long run persuasion is greater than coercion.

For instance, coercion alone cannot be trusted. "A man convinced against his will is of the same opinion still." A nation defeated in battle but unchanged in mind remains a constant threat to the peace of the world. When it regains its strength, it will attempt again to express its thought in military action. But if that nation's mind can be changed, if it can be led to see that it was in error and to desire the way of truth, then that nation will become a friendly associate in the struggle to maintain peace. No nation is ever really conquered until it is conquered by persuasion. And the same thing can be said about an individual.

Looking at it on a personal level, we would all agree that it is persuasion and not force that brings the best out of people. Parents punish their children for dishonesty, but it is not the rod—it is the example set by the parents that inculcates honesty in the children. It is the love parents have for them

and the trust they place in their children that elicits the admirable characteristics. In a good home and in a good school, there is a minimum of compulsion and a maximum of persuasion. Coercion develops the discipline of slavery; persuasion evokes co-operation from freemen.

The good salesman, be he parent, teacher, or business man, makes his product desirable. He knows people will get what they want instead of what they ought to have. Therefore, he persuades them to want what they ought to have. When people are pushed into buying what they do not want, they become dissatisfied customers. Dissatisfied customers seldom repeat their purchases. But when the merchandise or idea is presented as something so attractive that a person sells himself, the salesman has developed a steady customer.

Pilate had the coercive might of the Roman Empire behind him. Said he to Jesus: "Knowest thou not that I have power to crucify thee?" There is no denying that he had that power. On the other hand, Jesus said, "And I, if I be lifted up from the earth, will draw all men unto me." He used the power of persuasion, and there is no denying its efficacy. The pull of his sacrifice is amply demonstrated by the response men have made to it down thru the ages. Pilate's coercive power was short lived, but the persuasive power of Jesus remains a vital and beneficial factor in life. Where lasting results are desired, persuasion is definitely superior to coercion.

—Larry Schwarz.

Life in the Netherlands

This Is Typical of the Province Groningen

By EVELYN HABERMAN

Here is letter No. 4 from Evelyn Haberman, of Heizer, one of our 4-H'ers who has been spending several weeks in Holland. It was dated August 29, 1949.

sible. Mr. Van Hoorn says the average price paid for a hectare (2 1/2 acres) of good land is 3,000 guilder (\$1,000). Farms are handed down from father to son, so most have been in a family for years and years. This farm on which I live is 153 acres, about the size of most farms in Groningen, and is owned by his uncle.

Weather here certainly is a problem. As I have mentioned before, it is quite cool and damp. One can see the difficulty in harvesting grain crops right from the field as we do; the grain would be damp and the straw tough. Straw from wheat, barley and oats is an important product and is sent to factories to be manufactured into strawboard and plasterboard. When or if cut by combine, this straw would be more difficult to get.

Crops are Different

The crops here are heavier than ours. They are taller and have a thicker and stronger stalk. Because of these circumstances, the crops are harvested in quite a different manner. They are first cut by binder, then shocked and hauled to the barn where they will be threshed 2 or 3 months later. All except rape seed. It is threshed in the field from the shocks.

This harvest procedure was interesting to me. First the edge of the field is cut away by hand for about 10 feet. This is necessary because of the ditches around the field, as the crops are grown clear to the edge of the ditches. The rest of the field is then cut by binder. The binder is driven by a motor and pulled by horses. Because of the weather conditions, it seems more practical to do most work by hand and with horses.

(Continued on Page 16)



Evelyn Haberman

THE FARM: Farming here presents quite a different situation from that at home. Farms are smaller. More hand labor, less mechanized equipment is used, mainly because the fields are smaller and the ground is most, always pretty wet. The farm is fairly modern. That is, they have electricity, cold running water and a telephone. Mr. Van Hoorn, as well as other farmers, realizes the value of his farm and takes care of its upkeep, especially the land. To get a farm here is next to impos-



The Big Difference is LIVIUM*

HOW MANY \$4.50 PULLETS CAN YOU AFFORD TO LOSE? A good pullet is worth about a dollar and a half cash plus the profit from the eggs she should produce. So she's worth about \$4.50 to you. Facts show that pullet losses run about 17% in leading egg pro-

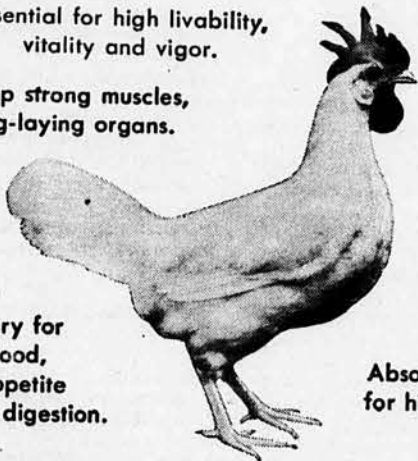
ducing states. If you have 100 good pullets now and lose 17, it will cost you \$76.50. See how important it is that you give pullets Nutrena Egg Feeds, stepped-up with Livium to help them safely through the strain of early laying?

Nutrena Egg Feed... Stepped-Up With LIVIUM GIVES YOU A SAFE WAY TO GET MORE BIG EARLY FALL EGGS!

HOW LIVIUM WORKS:

Essential for high livability, vitality and vigor.

Helps develop strong muscles, full size egg-laying organs.



Necessary for rich blood, good appetite and proper digestion.

Protects against strain of heavy laying.

Necessary for high egg production.

Helps avoid laying slumps.

Absolutely essential for high hatchability of eggs.

***What is LIVIUM?** LIVIUM is a scientific combination of vitamins A, D, B Complex, Riboflavin and the amazing Animal Protein Factor (B12). It is added to Nutrena Egg Feeds to protect your poultry investment and help you get top egg profits. Only Nutrena knows the combination to LIVIUM.

SENSATIONAL LIVIUM IS FORTIFIED WITH APF (B12)

Helps Your Pullets Safely Through "Critical Period" And Into High Egg Production Fast

The **Critical Period** for a pullet begins when she is working to lay her first egg. Her body and egg-laying organs are not yet completely developed. Yet Nature says she must lay. If she robs her body to supply egg-making materials, she will be weakened and run-down when she should be in the bloom of health.

There are many **body-building** materials she needs during this Critical Period. She must also have ample egg-making materials if she is to give you more big early eggs. She depends on you for them.

Without your help she may not live to lay the eggs you expect from her. Nutrena Egg Feeds stepped-up with LIVIUM, are especially made to help your pullets live and lay and pay! Be Sure, Be Safe, Be Thrifty. See your Nutrena Dealer today!

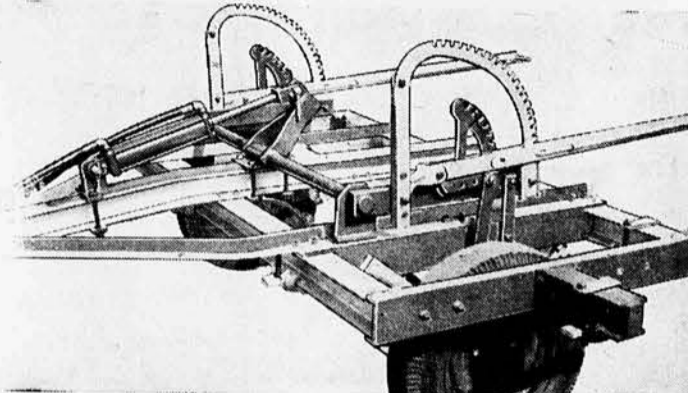
BREEDERS: U. S. Dept. of Agriculture tests have proved APF is absolutely essential for high hatchability. If you want to get premium prices for eggs that hatch out strong, vigorous chicks, feed Crumblized Nutrena Egg Feed stepped-up with Livium.

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Name _____ Town _____

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Life in the Netherlands

Continued from Page 14)

Heavy machinery cannot be used to good advantage and is too expensive to operate.

Mr. Van Hoorn has a tractor and combine. The tractor is used mainly for hauling and plowing. Combines are few here. In the community of Ulrum, there are 3. Most farmers hire a threshing machine to do the work, which runs quite expensive.

Because of such extensive hand work, Mr. Van Hoorn has 7 laborers the year around. During summer they are busy with harvest, and in winter with draining land, digging ditches, and breaking flax which has been stored in the barn.

Soil on this farm is medium clay, which is very fertile. It is soil that has been washed in by the sea and was later reclaimed as a polder. The farm lies in a long and narrow plain, because as the new polders are reclaimed, the land extends farther out toward the sea. As this land is all flat, it has no erosion problems. But Mr. Van Hoorn has to worry about keeping his land drained of water.

His fields are small because he grows many crops. These crops in order of their harvest which starts around the first of July are rape seed, barley, flax, peas, wheat, sugar beets, red clover and sugar beet seed.

Yields Beat Ours

The average field consists of about 15 to 20 acres. Yields of these crops are higher than ours. Average on this farm for wheat is 70 bushels an acre; for barley it is 85 bushels, and for oats, 120 bushels.

To get these yields Mr. Van Hoorn uses a lot of fertilizer. The fertilizers used are mostly nitrogen and phosphorus and some potassium and lime. Expense for fertilizers is one of the greatest in operating this farm. He spends, on the average, about \$2,500 a year for fertilizers.

As I have mentioned the extensive use of hand labor, wages are also a principal expense. Mr. Van Hoorn pays about \$4,000 or \$5,000 a year for wages plus \$1,000 for social security. Laborers seem to be well organized and publish a booklet each year giving labor regulations.

Farming Is Costly

Rent is another major expense. For this 153-acre farm, it is about \$2,600 a year. Farm rent rates are set by the government and are quite high because there are many farmers and little land. An approximate cost per year for the operation of this farm is about \$16,000.

The house of Mr. and Mrs. Van Hoorn became quite comfortable to me after about a week. At first, it seemed very strange and the rooms were quite dark. Rooms were furnished in darker colors (with no variety or change of color) and old-styled furniture. My first impression was that it reminded me of grandma's house as it used to be.

In this house there are 6 rooms downstairs, and one room upstairs used for storage. Downstairs there were 2 bedrooms, front room, dining room, kitchen, a "Dutch" bathroom and the large entrance hall and the hall leading to the barn.

I called the bathroom a Dutch one because here they do not have bathtubs; they hardly know what they are. For washing, they have, instead, in each bedroom a wash basin. Here we had the basin with cold running water, but in many places they use the hand basin and pitcher sets. I washed in cold water (brr-) each day, except Saturday I would use warm water for my weekly bath. During the week I think I just did a once over lightly wash as it was usually cold.

Few Laborsaving Helps

Most of my time was spent working in the house. Quite a difficult task. It seems they do things the hard way. Housework here takes much more time than at home, and it is done more thoroly. By that I mean the whole house is cleaned each day. My pet peeve was to dust the big window sills with the many flower plants on them.

The Dutch housewife has hardly any laborsaving devices and it seems she does her work the long way around. Every day there is the same routine of work with nothing new or exciting ever happening, except washday; this was a much busier day. The Van Hoorns had a hired girl who helped each day from 7 in the morning until 2 o'clock in the afternoon, but there was still

work for Mrs. Van Hoorn and me to do.

As I mentioned before, they have electricity, so this enabled Mrs. Van Hoorn to have an electric sweeper. I was glad, because there are rugs on all floors except bedrooms and kitchen, and what a job that would be without a sweeper. As for other electrical appliances, they had lights, a radio, a coffee-pot, a toaster (seldom used). In the kitchen there also was an electric one-burner hotplate.

Day Started Early

My day began at 6:30 o'clock in the morning. It was my duty to dress the little 3-year-old girl, Sineka. I sometimes wondered how she could be so patient with me. As soon as I finished, we had breakfast which is no job to prepare. One heats water for tea, slices bread and sets the table and presto it is ready. After breakfast came house-cleaning. Between 10 and 11 o'clock we had tea, regardless of what we were doing. Sometimes I appreciated this, especially on washdays. As I have mentioned before, preparation of meals takes no planning and very little time in the kitchen. At 11 o'clock Mrs. Van Hoorn would put the potatoes and vegetables on to cook, and perhaps make a pudding or some porridge and that would be all the preparation. For this reason, I never helped very much with the cooking. The day I had my "American meal day" I was quite amused by Mr. Van Hoorn and his statements that the Dutch housewife could not afford to spend that much time in the kitchen. Instead of putting any time in cooking, she puts most all her time in knitting and sewing for her family.

Well, on with my day here. At 12 o'clock was dinner. I never knew of this meal being ever one quarter of an hour late. The food was always done on time and Mr. Van Hoorn was always prompt at coming in for dinner. After dinner, I was usually pretty free to do as I needed except on washdays, when ironing or canning fruit. After supper, which again took very little effort to prepare, we would visit, usually after Mrs. Van Hoorn and I had put the children to bed. They were always in bed by 7 o'clock. During the evening we would visit and drink coffee and retire for the night about 10. Seldom did we listen to the radio as Mr. Van Hoorn does not care much for music; altho I could play it if I wanted to.

Washing Is Done by Hand

Washday was "the day" for me. You see, they have no washing machine and all of the washing was done by hand. The water when first starting was very hot, so hot I could not keep my hand in it without burning it. All the white clothes were first boiled and then washed. All clothes were rinsed 4 or 5 times before being hung out on the line. I always acquired blisters as souvenirs from washdays.

Ironing was quite a different task. Very little of the clothes were ironed and those few pieces were ironed dry and not dampened. Ironing consisted of shirts, blouses, and the children's dresses. I was surprised to see these pieces ironed out as nicely as they did. One reason for this fact is they do not starch any of the clothes.

No Work Center

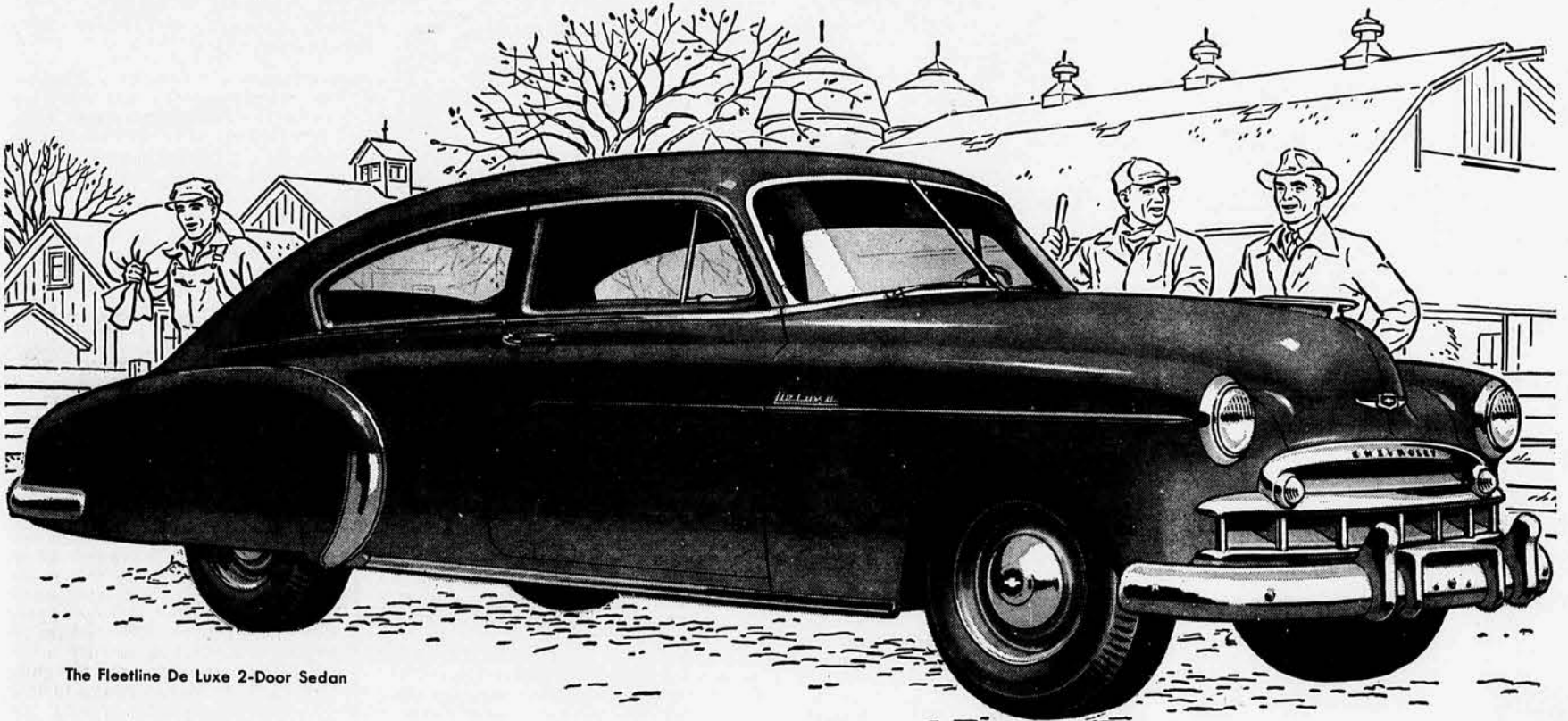
The kitchen is very large and there is no work center, no economical arrangement as to time and step-savers. For instance, on one side of the room is the cabinet of dishes and supplies, on the opposite side are stoves or burners, sink and table space. Mrs. Van Hoorn has 3 individual burners for cooking and no oven. She has no icebox so all the food is stored or kept in the cellar uncovered; milk is boiled so it will keep. As for color, the kitchen has a drab, colorless atmosphere. There are no curtains on the 2 high windows, the floor is just wood, the walls are a creamed gray, the cabinet sort of blue gray, and the table top is black. This, I guess, is reasonable to them because the Dutch housewife does not spend much time in the kitchen. Not at all like the typical American housewife does.

Regardless of the many inconveniences in running her household, as I saw them, Mrs. Van Hoorn seemed to be very happy and really to enjoy her life. She certainly was nice to work with and helped me make my life in their home one of my most grand and memorable experiences.

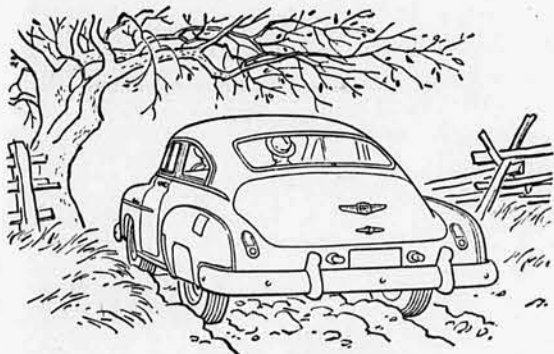


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CHEVROLET MOTOR DIVISION, General Motors Corporation, DETROIT 2, MICHIGAN



Plenty of room in the luggage compartment for all the bundles you want to crowd in on your trips to town. And there's plenty of room for the tools and equipment you want to haul to the back part of your farm.



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Mr. Gail Dahl

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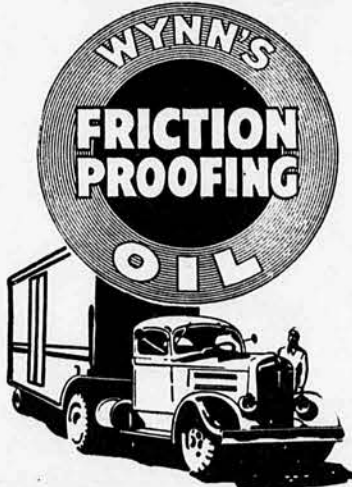
This is the conclusion of Mr. Gail Dahl, owner of Dahl Truck Lines, 4120 Floyd Ave., Sioux City, Iowa. His company operates 15 trucks in Iowa, South Dakota and Minnesota. Here are the facts he quotes:

- "Before Friction-Proofing our trucks, we averaged a 'valve job' every 18,000 miles. Now the average is well over 40,000 miles.
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- "We've been using Wynn's Friction Proofing Oil in the crankcase, transmission and differential of our trucks since August, 1947, and heartily recommend its use for operating economy."

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Vocational Agriculture

By HELEN ANKENY

OPENING of the new school year finds 8 new Vocational Agriculture departments and 7 reactivated departments; 32 young men, graduates of Kansas State College, Oklahoma A & M, and the University of Missouri, who are teaching Vocational Agriculture in Kansas for the first time this year; and 28 departments which have made changes in teaching personnel.

New departments established this year and instructors include: Altoona, Leo Van Pelt, instructor; Garnett, Clarence Anderson; Lakin, Dean Hoppas; Mankato, Darwin Housholder; Meade, Jerry Gee; Ness City, W. E. Stone; Plainville, Arlie V. Jackson; Yates Center, Don W. Brock.

Reactivated departments and instructors: Ashland, W. J. Braun; Attica, David E. Borgart; Hanover, Alvin Lampe; LaCygne, Charles Ross; Norcatur, Evan West; Parker, Charles Huff; Wakefield, Duane A. McCune.

Departments reporting changes in teaching personnel: Beverly, Raymond L. Lemon; Bird City, Charles Hund; Centralia, Arnold A. Balzer; Clifton, James Boston; Cottonwood Falls, J. D. Dobkins; Ellis, Gordon Clark; Eureka, Harry Coffel; Fairview, Melvin C. Cotner; Glasco, C. T. Riggin; Hays, Thaine Clark; Hiawatha, Ralph Arnold; Hillsboro, Wm. D. Smith; Holton, Keith Wagoner; Inman, C. R. Wood; Jewell, Louis Emme; Kincaid, Sam Harris; Kinsley, J. O. Brown; McCune, Ralph Utermohlen; Minneapolis, Karl Will; Seaman, (North Topeka) George Robinson; Overbrook, Fred E. Simmons; Powhattan, Winzer Petr; Seneca, Grover F. Adams; Silver Lake, Dean M. Prochaska; Simpson, Merle Bunch; Spearville, W. E. Chappell; Tonganoxie, Mervin McKinsey; Wakeeney; Gerald Berry; Waterville, Robert O. Whitaker.

Twenty-seven new classes were added the first of September to enrollment in on-the-farm training program for veterans, according to L. B. Pollom, Topeka, supervisor of agricultural education in Kansas, and director of on-the-farm training program in this state. Fifteen of the classes are in communities which, previous to September 1, have not had the benefit of the training program, and the other 12 are additional classes formed to take care of the added enrollment in communities where the program is already in operation.

The 27 new classes bring the total number of veterans now enrolled in on-the-farm training in Kansas to 4,410, according to C. C. Eustace, Kansas State Board for Vocational Education.

New classes and their instructors include: Alma, Jim Kirkemunde; Burlingame, Dolf Jennings; Caldwell, Lowell B. Farrill; Centralia, A. K. Banman; Cheney, Howard Lindholm; Cherryvale, Aubrey W. Bostwick; Chetopa, Robert G. Reim; Concordia, Robert L. Barnum; Ellsworth, Virgil P. Carlson; Esbon, Raymond O. O'Hara; Eureka, Dale M. Morris; Frankfort, Harvey Snapp; Garnett, Lyman Singer; Girard, Jack McClaskey; Glasco, H. W. Schaper; Havensville, Percy DePuy; Herington, Lauren F. Nieman; Highland Jr. College, Charles Marsh; Hill City, Kenneth R. Corke; Hillsboro, John Shaffer; Holton, Henry Knouft; Independence, Blaine Brandenburg; Kingman, Victor L. Reed; Minneapolis, Sid Jagger; Morrowville, Don Beeman; Salina, Lawrence Backer; St. Francis, M. A. Jensen.

Future Farmers from all over the state are planning to attend the annual convention of the national FFA organization, which will open October 10, at Kansas City. Kansas will have an active part in the convention proceedings and in the national dairy and poultry judging contests to be held at Waterloo, Iowa, October 4-6; and the meats and livestock judging contests to be held at the American Royal, October 13-15.

This year the convention is being held immediately preceding the American Royal for the first time since the FFA held their first national convention in 1929. The convention proper closes October 13, and several contests get under way the following day in the junior divisions of American Royal events.

John Gigstad, Effingham, immediate past president, and Paul Mugler, Clay Center, newly elected president of the Kansas FFA Association will represent the state as official delegates to the House of Delegate meetings. Alternates are J. Elton Zimmerman, Olathe, and Lon Dean Crosson, Minneapolis.

Chapters entered in the Better Chapter contest are Buhler, J. A. Johnson, adviser, and Olathe, A. G. Jensen, adviser. The chapters earned the right to compete at the national by placing in the gold emblem division in the state contest.

The famed FFA band and chorus will appear again at the convention. Kansas Future Farmers will participate in both the band and chorus. Playing with the band will be: James Anderson, saxophone, Randolph; Jerry J. Deaton, clarinet, and John R. McKone, saxophone, Tonganoxie; Jerome Johnson, Concordia, saxophone; and Donald Schimpf, Stafford, trombone.

In the chorus from Kansas will be Clement Anderes, Chapman; Ted Hanson, Concordia; Gary Johnson, Highland Park, Topeka; Merle Schmelle, Medicine Lodge; Carl Reeder, Wakeeney.

Five candidates have been recommended by the Kansas FFA Association for the American Farmer degree, highest degree the national organization can award.

Competing in the dairy and poultry judging contests at Waterloo will be FFA teams from Cherryvale, Olathe and Belleville chapters.

In poultry, Kansas will be represented by the Cherryvale judging team, coached by C. H. Young, Vocational Agriculture instructor. Team members will be Don Alexander, Harry Hamilton, Bill Froebe, and Charles Cramer, alternate.

Competing for gold emblem honors in dairy cattle judging will be the Belleville team, Carl Beyer, coach. On the team are Galen Morley, George Brzon, Charles Hanzlick, Donald Householder, alternate.

The Olathe team, A. G. Jensen, coach, is entered in the dairy products contest. Making up the team will be Charles Alexander, J. Elton and D. Wayne Zimmerman. Alternate is John Palmer.

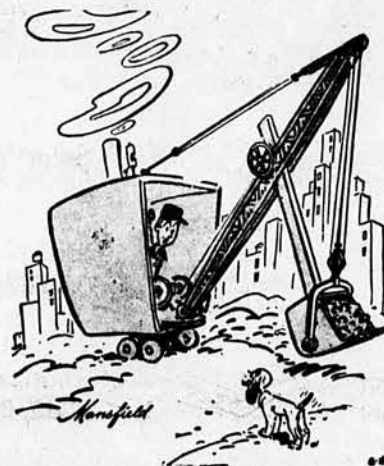
The Belleville team will also compete in livestock judging at Kansas City.

The Concordia team, coached by W. A. Rawson, instructor, and composed of Don Hudsonpillar, Ted Hanson and Lyle Lagasse, will try for top honors in the meats judging contest at Kansas City.

Ranking of teams and individuals will be on the basis of 5 groups; gold, silver, bronze, honorable mention and participation.

Ten FFA district leadership schools held for the benefit of local FFA chapter officers were scheduled for September and October, according to Prof. A. P. Davidson, Kansas State College, executive adviser of the association. Those still coming are:

Beloit, H. R. Bradley, October 3; Hill City, John Lacey, October 4; Dodge City, Chris Langvardt, October 5; Buhler, J. A. Johnson, October 17; Harper, A. A. Haltom, October 18; Independence (Continued on Page 19)



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dence, T. E. Stockebrand, October 19; Emporia, Emory Groves, October 20.

Don Volker, member of the Stafford FFA Chapter, who won first place in public speaking at the annual FFA state convention held this spring, placed third in the regional FFA contest held at Madison, Wisc., August 22. Donald spoke on "The Challenge of a New Day in Agriculture."

State winners from 12 states competed in the regional contest. The boys were divided into 2 groups, A and B. Don, who competed in group A, won first in that group.

Judges in the contest were Frank W. Cyr, Columbia University, New York; Ivy W. Duggan, U. S. Department of Agriculture, Washington, D. C.; and P. E. McNall, University of Wisconsin, Madison, Wisc.

One of the better wheat yields in Douglas county was raised by Jerald Brunk, a Vocational Agriculture student of W. R. Essick, instructor at Lawrence Memorial high school. Young Brunk, son of Mr. and Mrs. D. W. Brunk, harvested 243 bushels of grain from 6 acres for an average yield of 40½ bushels an acre.

The field was measured by the Vocational Agriculture class. The wheat weighed at harvest time, tested 58 pounds to the bushel and was of the Pawnee variety. When the grain was planted last October, 100 pounds of 4-12-4 fertilizer to the acre was applied, which means 4 parts nitrogen, 12 parts phosphorus and 4 parts potassium. Most of the grain is being saved for seed since it is of good quality, free from cheat, and other weed seeds.

In addition to the 6 acres of wheat, Jerald has 2 acres of popcorn, 10 acres of soybeans, a registered Duroc sow and 10 pigs, and 2 Hereford beef calves weighing about 900 pounds.

For the second consecutive year, the Sabetha Chapter, H. R. Pollock, adviser, won first place in the exhibit of Vocational Agriculture booths. Ottawa, S. S. Bergsma, adviser, placed second; Alma, F. E. White, third; Valley Falls, A. H. Loomis, fourth; Highland Park, Topeka, fifth; Williamsburg, Earl Anderson, sixth; and Burns, A. W. Miller, seventh.

Between 1,200 and 1,300 Future Farmers and their advisers from all sections of the state participated in the dairy judging school held Monday morning, September 19, at the Kansas State Fair in Hutchinson. Dr. F. C. Fountaine, Kansas State College, Manhattan, was in charge of the school and was assisted by the members of the Kansas State College judging team.

Buhler FFA chapter, Reno county, J. A. Johnson, instructor, won grand championship for the fourth straight year in county collective booths. The chapter piled up a record-breaking 1,131 points. Runner-up was the Coldwater FFA chapter in Comanche county, taught by L. E. Melia.

In the farm machinery exhibit, Clay Center FFA chapter took first place for the third year in a row, winning \$100 as a prize. Winfield, with Ira Plant and John Lowe as instructors, took second place.

The panel display was won by the Ashland FFA chapter, W. J. Braum, instructor.

Keep Locks Clean

To clean locks force clear gasoline thru the keyhole. Work the key in and out of the lock to distribute gasoline to all working parts. Blow it out with tire pump.—Mrs. A. D.

How to Prevent Fires

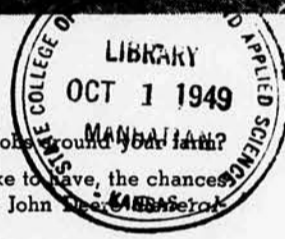
In the current booklet, "Safety Guide for the Farm and Home Front," are many suggestions on how to prevent fires on the farm. Fire Prevention Week this year is October 9 to 15, but every day and every week we should exercise precautions to prevent fires. If you would like a copy of this booklet please address Farm Service Editor, Kansas Farmer, Topeka. It is free as long as the supply lasts.



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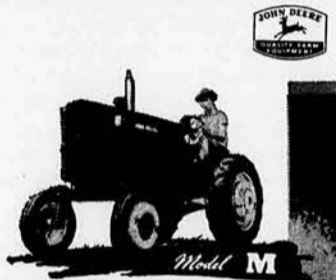
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Inspiration for Fall

By Florence McKinney

WITH the coming of cool weather, comes inspiration for new recipes, for new flavors to tempt the appetites. Heat is welcome in the kitchen and hours are long. The apricot bars will go nicely in the lunch box, something new, attractive and a taste treat.

Apricot Filled Bars

They are quick to make because the base is mixed while the filling is cooking. Part of the crumb mixture is packed in a pan, the filling spread over and the remainder of the crumbs packed on top. The apricot filling bakes into the bottom half while the topping stays crisp with a nutty flavor. (See picture below.)

1 cup cooked dried apricots	1 cup sifted flour
1/2 cup sugar	1/4 cup chopped nuts
1/4 cup water	2/3 cup brown sugar
1/4 teaspoon salt	1/2 cup melted butter
1/2 teaspoon soda	1 cup quick rolled oats, uncooked

For filling, combine apricots, sugar and water. Cook over low heat until thick, stirring frequently. Cool and add nutmeats. Sift together flour, salt and soda. Add brown sugar. Add melted butter, mixing until combined. Add oats, mixing well. Pack two thirds of mixture into a greased 8-inch square baking dish. Spread with apricot filling. Cover with remaining mixture, packing lightly. Bake in moderate oven (350° F.) 30 to 35 minutes. Cool and cut into 16 bars.

Butter-Spiced Baked Squash

3 medium acorn squash	4 teaspoons cinnamon
2 teaspoons salt	1 teaspoon nutmeg
1/2 cup butter, melted	1/2 cup chopped nuts

Wash and cut squash in halves, crosswise. Season with salt. Combine spices, chopped nuts and melted butter and blend. Spoon a little of the spice-butter mixture into each squash half. Place in a covered baking dish and cover the bottom of dish with hot water. Bake in a moderately hot oven (400° F.) for about one hour, removing cover for last half hour of baking. Serve with extra spice-butter mixture. Serves 6.

Filled Coffee Cake

1/2 cup butter	3 cups flour
2 cups sugar	1/2 teaspoon salt
1 teaspoon vanilla	2 teaspoons baking powder
4 eggs, well beaten	1 cup milk

Cream butter and sugar well, add vanilla, add eggs, blend well. Add sifted dry ingredients alternately with milk.

Filling

1 cup brown sugar	2 tablespoons flour
2 tablespoons butter	1 teaspoon cinnamon
1 cup chopped nuts	

Blend brown sugar and butter. Add remaining ingredients, mix well. Pour layer of batter in buttered pan (8 by 12 inches) then layer of

filling, until all is used and filling is on top. Bake in a moderate oven (350 to 375° F.) for 30 to 40 minutes.

Rice Waffles

1 cup sifted flour	1 tablespoon sugar
2 tablespoons baking powder	3 eggs, separated
1/2 teaspoon soda	1/3 cup melted fat
1/2 teaspoon salt	1 1/2 cups buttermilk
	1 cup cooked rice

Sift dry ingredients together. Beat egg whites and egg yolks separately. Combine shortening, beaten egg yolks and buttermilk, then add to dry ingredients. Mix well. Fold in rice and stiffly beaten egg whites. Bake in hot waffle iron until browned. Makes 8 waffles.

Sour Cream Pudding

2 tablespoons butter	2 teaspoons baking powder
1/2 cup sugar	1/8 teaspoon salt
1 teaspoon vanilla	1 cup milk
1 egg, beaten	2 cups brown sugar
1 1/2 cups flour	2 cups sour cream

Cream butter and sugar, add vanilla and egg. Add sifted dry ingredients alternately with milk. Beat well. Pour in deep oiled pan. Sprinkle top with brown sugar and pour sour cream over. Bake in moderate oven (375° F.) for 30 to 40 minutes. Batter rises to top, cream and sugar form caramel sauce at bottom. Turn upside down and serve hot or cold with cream.



Cousins Present Demonstration



Marjorie Hamon, left, and Jeanette Hamon, right. The Jefferson county 4-H Club girls from Valley Falls are shown demonstrating the laundering and blocking of a wool sweater. In the center, is the girl's club leader, Mrs. C. J. Ott.

ALL day long for 5 full days, 4-H Club young people from Eastern Kansas stood before the judges and presented their demonstrations during Free Fair Week at Topeka. On Wednesday morning Marjorie Hamon and Jeanette Hamon, cousins, demonstrated the laundering and blocking of a wool sweater. They were trained by Mrs. C. J. Ott, girl's club leader of the 4-H Club of Jefferson county. Marjorie has com-

pleted 5 years and Jeanette 3 years of club work. Both 14 years old, Marjorie is club reporter and Jeanette, assistant song leader.

They recorded the shape of the sweater on a cardboard frame, washed it in neutral soap and water, rinsed it twice, once with vinegar, blotted it with a Turkish towel, blocked it on a wire frame to the recorded measurements and finally dried the sweater.

❖ The Poet's Corner ❖

Heads Bent Low

A stooped old man and a young man
Chanced to meet one day.
The young man said to the elder
In his usual braggart way,
"Why don't you walk up straight like
me?
That's no way to grow old.
It's all a form of habit;
At least that's what I'm told.
The old man gave him a knowing look
And said, "My dear young friend,
Have you examined your wheat fields
And noticed the heads that bend?
If not—just look them over
As the harvest time draws nigh.
You'll find the heads that are empty
Are standing straight and high.
But the heads that count in the harvest
Are filled and bending low.
Awaiting the reaper's sickle,
Their time is short they know."
And as the young man passed on by
He slowly bowed his head.
No doubt he pondered many a day
On the things the old man said.

—By Ethel Durnal Posegate.

Persimmons

Today the cool brisk wind of autumn
blows,
A gay paint-box of color floods the hill,
The air is filled with blue-ish autumn
haze,
The sun is out to warm the early chill.
So we shall go along the wood-lined path
And walk until we find persimmon trees,
Then gather soft gold fruit to fill our
pails
And eat as many of them as we please.

—By Mary Holman Grimes.

End of Summer

The fodder in the shock is brushed with
tan,
The distant hills are flecked with red
and gold,
The air is marked with scent of curing
hay,
The nights are hinting more of winter
cold.

The sound of katy-dids accent the dark,
And sumac beckons from the age-old
trail,
Nostalgia fills my heart as once again
The Master Artist paints in bright detail.

—By Mary Holman Grimes.

Indian Summer

Indian summer . . . cherish each day,
Savor its beauty and don't delay!
Love its brightness, bask in its heat,
Don't condemn it as gaudy . . . its mo-
ments are fleet.
Brief is its life as a final rose,
One last chance, a door near to close,
A swan's dying song . . . it soon will be
past,
Of summer's gay glory, this is the last.

—By Elva Buskirk Dreibelbis.

October

Morning glories wind round the old gar-
den gate,
A wild duck, alone calls to its mate.
The bright leaves are falling down to the
ground,
Gourds are ripe and turning brown.
The pale moon is hanging low in the
sky,
Jack Frost is coming with easel and dye.

—By Faye Thompson-Noll.

This Other Me

I'd have you meet
This other me
If you admire sagacity.
I'd have you know
This other me
If you respect veracity.
Subtle in awkward situations,
Firm to embarrassing invitations.
This paragon, this other me
Is just the gal, I'd like to be.

—By Freda Weber.

Club Money Makers

Organized clubs of almost every nature now are planning ways and means of earning money. Our new leaflet, "Money Makers for Your Club," suggests a gay '90s supper, a Scotch supper, a Chinese or Italian or German supper, a harvest festival, a wedding supper, besides other methods of raising club money. Some of these suggestions will surely appeal to the chairman or to the officers of your club. For a copy of the leaflet, please address Entertainment Editor, Kansas Farmer, Topeka. Price 3c.

Ready for School

Skirts and blouses, coats and sweaters,
Brushed and smoothly pressed,
Shoes just polished, socks all paired,
Will help me look my best.

New raincoat and school supplies,
Ribbons for my hair,
Fresh-washed scarf and handkerchiefs
They need special care.
For weeks I've been dreading it,
Going back to school,
But now it's time . . . I'm glad to go,
I'll try to keep each rule.

And on the farm across the road,
A new boy, straight and tall,
Said, "May I walk to school with you?"
And I won't mind at all.

—By Camilla Walch Wilson.

Hay-Fever Time

When I am attending the circus
The man on the flying trapeze
Sends shivers the length of my spine,
When I think he might suddenly
sneeze.

—By Camilla Walch Wilson.

For Halloween

A Harvest Party
A Pioneer Party
Halloween Fun
Directions for the Harvest Twins

These leaflets will help you plan your autumn parties. Suggestions for invitations, decorations, entertainment and refreshments are given. Please order from Entertainment Editor, Kansas Farmer, Topeka. Price 3c each.

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Light for Lessons

By FLORENCE McKINNEY



One tall desk lamp with a wide shade spreads light over entire study desk. A desk for the young girl may also serve as a dressing table.

GIVING the young folks a well-lighted, comfortable place for study is one of the most important ways a parent can assist with homework. However, it takes more than just the right sort of lamp on the study desk. The arrangement need not be elaborate nor expensive. But it should be tailored to fit the individual student in order to provide the utmost in eye comfort.

Consider Color

The color of the walls in the room is the first consideration. A light tint is best. Tests show that a light wall can reflect as much as 20 per cent more light on the desk than dark-papered, paneled or painted surfaces. If the wall is dark, make a tack board or bulletin

board above the desk or table, cover it with a light-tinted paper or cloth. Not only does this give the right color, but it provides a spot where pennants, clippings and pictures of friends may be pinned. This feature will please the young folks no end.

The lamp must be considered, too. Two pin-up lamps on the tack board with 100-watt bulbs and plastic diffusing bowls will give just the right amount of light and from just the right direction. Opaque shades with white linings are first choice for this.

The 2 lamps are placed 29 inches apart and just high enough so the child cannot look up under the shades when his eyes are 14 inches from the desk. The chair should be adjusted or built up to bring the eyes up to this level.

One of the easiest ways to prevent eyestrain is to train the young student to hold the book in a tilted position at about a 30-degree angle so the type will not be foreshortened. Harsh reflections from a shiny desk should be eliminated by placing a light-colored blotter on the desk. It must be light in color to be good for a dark one absorbs too much light, giving the same result as a too-small bulb. The blotter also will spread the light and cut down contrast between the book and the dark furniture.

If the dining-room table is to be the study table, move a study lamp there after the dishes have been removed. This will make it a good place not only for studying, but also for evening reading by the grownups. This lamp should be tall enough with a shade wide enough to spread light over the entire table surface. The shade has a white lining to reflect all possible light and slanting sides which direct the light downward to the table.

Prevent Glare

Under the shade should be a diffusing bowl or reflector bowl, to prevent glare and soften the light. This bowl does not only send light downward but permits part of the light to go upward, making less contrast between dark and light.

For the very best reading, there should be other light in the room provided by ceiling fixtures or by enough lamps with diffusing bowls to eliminate dark shadows.

The new certified lamps which come in floor, table and wall models are quite an improvement over earlier models. They can be recognized in the stores by an orange-and-blue certification tag. Too, the lower part of the diffusing bowl on these certified lamps is made of glass, the upper part a crown-shaped metal reflector.

Hidden Word Game

For any October party try this hidden word game suitable for the month. All answers start with oc.

1. What do we call a choir of 8 voices?
2. What native yellow earth of iron

- and clay might be used as a pigment.
3. Name the 10th month of the year.
4. What is composed of 8 notes?
5. A great body of salt water that covers about two thirds of the earth's surface.
6. When in between 80 and 90 years old you will be known as what?
7. One skilled in treating the diseases of the eye is what?
8. What do we call a person having one eighth Negro blood?
9. To have possession of, is to what?
10. What do we say of the happening of an event?

Answers to Hidden Words

1, octet. 2, ocher. 3, October. 4, octave. 5, ocean. 6, octogenarian. 7, oculist. 8, octoroon. 9, occupy. 10, occurrence.

Suds and Cleaning

FOAMY suds don't clean. For a good long time, the homemaker has used the amount of soapsuds in the dishpan as an indicator of the amount of soap for cleaning. This is not always true . . . it depends on the brand and type.

To meet the popular demand for suds, manufacturers of detergents have had to make products which foam readily in water. It is needless to say that foam is an attractive and pleasant characteristic, but don't let that fool you. There are synthetic detergents which do not foam yet clean efficiently.

The cleaning ability of any detergent depends largely on 2 qualities: first, how well it dissolves soil, and second, on how much it aids water in getting the soiled articles wet, so the dirt can be carried away quickly and thoroly. Water alone cannot wet materials as well as water containing a cleaning agent. Thus, one test of a good detergent is how much it increases the wetting power of water. Labels on packages will help homemakers determine just what they are getting. Read them carefully.

It's Narcissus Time

Next time you're downtown buy a few white narcissus bulbs. If you start some now and plant at intervals, there will be bloom in your house all winter.

Be sure to set the potted bulb in a cool, dark place for several weeks until they root well. Then place in the window. This keeps bulbs from producing too much top growth.

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A gift for a bride that she will display with pride. Personalized linens have HIS, HERS, MR., MRS., monograms with flower frames. Transfer includes 12 motifs 2 3/4 by 10 to 4 by 7 1/4 inches.

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| 3 packages Red Star Dry Yeast | 5 teaspoons salt |
| 3/4 cup warm water | 3 1/2 cups lukewarm water |
| 1/2 cup sugar | 11 1/2 cups sifted flour |
| | 5 tablespoons shortening |

Dissolve 3 packages Red Star Dry Yeast in 3/4 cup warm water. Let stand 2 to 3 minutes. Place 1/2 cup sugar, salt and 3/4 cups water in a large bowl. Stir yeast solution thoroughly and add to this mixture. Add half the flour and beat well. Add melted and cooled shortening, stirring vigorously. Add remainder of flour, stirring until well mixed. Place dough on lightly floured board and knead 5 to 7 minutes. Shape into smooth ball and place in greased bowl. Brush top lightly with shortening. Cover and let rise in warm place for 45 minutes. Punch dough down; shape into loaves and place in greased pans. Brush tops of loaves lightly with shortening. Cover and let rise in warm place for 45 minutes. Bake in moderately hot oven (400° F.) for 50 minutes. Makes 4 loaves.

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Books On Review

New Song in a Strange Land

Another book about Africa and the Africans. The author, Esther Sietmann, was an Iowa farm girl, who with her husband, a botanist, went to Liberia on the Western Coast of Africa. While Mr. Warner worked for Firestone Rubber Company on their plantation, Mrs. Warner kept house with native help, took long treks into the interior with native carriers, took up her hobby of wood carving and sculpture. This talent won friends for her, for wood carving is the one native craft which has reached an advanced stage in Africa.

Here is an adventure story of the first water for 2 reasons; first Mrs. Warner had experiences almost unsurpassed and she is a good story teller. Her housework, entertaining, experiences with the cook, the cleaning boy, the laundry boy are worth the price of the book.

She acquaints herself with native artists who have never had a lesson. She lives for 2 months at a mission where she studies the African arts and life in the interior villages. She learns of the countless superstitions of the countless tribes, but with an understanding heart.

A selection of prints by Jo Dendel made from his sketches and Mrs. Warner's wood carvings illustrate the book. *New Song in a Strange Land* is published by Houghton Mifflin Company, Boston, Mass. Price \$3.50.

California Pageant

This book will delight the reader who wishes to know more about California. Written by Dr. Robert Glass Cleland, well-known historian and author of books on California, it relates that state's history for 4 centuries.

Men of many races and many occupations played their role in the development of the land, beginning with the early Spanish and Portuguese explorers. The effect of the Spaniards and their string of missions along the Pacific coast is told in realistic style.

A hundred years ago, California was still a wilderness; today that wilderness is an empire, known and marveled at thruout the world.

California Pageant, the Story of Four Centuries, is published by Alfred A. Knopf, of New York City. Price \$2.50.

Taos and Its Artists

Mable Dodge Luhan, the author, is a frequent writer of various aspects of life in and near Taos, New Mexico. This time she writes about the world-famous art colony located there. From Taos, during the last 30 years, has come some of the most interesting and important art in America. She introduces 49 Taos artists in a clear, vivid manner together with full-page illustrations. She describes the influence upon painters of the desert, the Pueblo Indian life and reminisces about the famous people whom she has known.

It is published by Duell, Sloan and Pearce, New York City.

Class or Club Party

Whether you are planning for a class, a club or a community entertainment, the following leaflets will offer suggestions or be found useful.

"You Can Make It" Party (6 suggestions). Price 3c.

Games for Young and Old (21 games). Price 3c.

The Spirit of Our Forefathers (play—speaking and pantomime). Price 5c.

A Ticket for Amy (play, requiring 3 characters). Price 5c.

The Rehearsal (play for school-age children—grade or high). Price 5c.

The play leaflets require little stage setting. Please address your order to Entertainment Editor, Kansas Farmer, Topeka.

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4654
SIZES
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M-18-20
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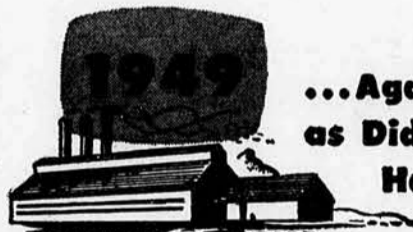
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Beat Pasture Obstacles

(Continued from Page 4)

he has obtained in grazing some of his earlier improved pasture, he now figures he can carry 300 head of cattle on 1,200 acres of h's grass. In other words, where it once took 20 to 25 acres for one steer or cow, he now can figure only 4 acres to each animal. That means he is getting 5 or 6 times more grazing off his improved pasture.

Now let's take a look at the Tuttle cattle program, and his general plans for providing the pasture and feed to see them thru.

Mr. Tuttle buys thin, wet cows in August or September to run on grass or on wheat pasture during the winter. If on wheat pasture, the cows are taken off the wheat about April 1 to 10 and put in the dry lot for 6 weeks. There they will be given some ensilage, then switched to alfalfa hay for a finish warmup. This holding them in the dry lot for 6 weeks on dry feed puts them in better condition, says Mr. Tuttle, and they will hit the market after the big run off wheat pasture and thus bring a better price.

In February or early March Mr. Tuttle also buys some 400- to 450-pound steers to run on grass thru the summer, then onto wheat pasture in the fall if it is available. Depending on weather and grazing conditions, these steers will be brought into dry lot late in winter and given a warmup feed of alfalfa hay and some ground milo. They will be sold in April ahead of the cows at weights of from 900 to 1,000 pounds.

For Plenty of Feed

Here is the plan Mr. Tuttle is following to insure plenty of pasture and feed.

He will have at least 1,200 acres of greatly improved native pasture; 27 acres of alfalfa under irrigation for hay production; 440 acres of grain sorghum and 3 trench silos for his grain and silage crops; 7 quarters of wheat pasture. He is figuring on wheat pasture being available 3 years out of 5. "Some farmers will say it can't be done," Mr. Tuttle adds, "but I have found frequency of wheat pasture availability depends upon thoroughness of your summer fallow. I will carry a year's reserve supply of feed, however, if needed in case things don't work out as planned."

One thing Mr. Tuttle has discovered is that irrigated grass will provide a tremendous amount of grazing. He has 8 acres of irrigated sand love grass which this summer supported one head to the acre. "Because of more than normal rainfall this year it took a surprisingly small amount of irrigation," he said.

With this experience to draw on, Mr. Tuttle is planning to seed a quarter section to a grass mixture where it can be irrigated with a sprinkler-type system when needed.

Purely as an experiment, he also is planning on 23 acres of Kansas pasture containing winter timothy, ladino clover and birdsfoot trefoil. Ladino clover and birdsfoot trefoil are legumes becoming very popular in the southern and eastern states. "I am curious to know whether they would be practical out here under irrigation," says Mr. Tuttle.

One thing he is trying to do in all his planning is make his farm flexible. For instance, his present grass program is designed primarily for cattle but he could switch to sheep. He did have an extensive sheep program at one time, but has gradually gone to cattle since beginning his pasture improvement program.

Over on the farm of Clifford Fort and Sons there are 1,510 acres with only 90 acres in permanent pasture. This is typical for the area.

Can Be Irrigated

The Forts have 360 acres that can be irrigated, but only at the rate of 120 to 160 acres a year because of labor involved. The livestock program will consist of cattle and hogs. A herd of Shorthorns on the farm will be doubled to 40-cow size. Seven sows will be kept and bred for 2 litters a year.

The 1,060 acres of dry land will be farmed on a straight 50 per cent fallow and 50 per cent wheat program. This will leave the irrigable area to support the livestock program except for wheat pasture.

To achieve this, the Forts have worked out 2 rotations. Rotation No. 1 consists of milo-summer fallow-wheat-barley and sweet clover, with the barley harvested for grain and the sweet clover plowed under the second spring as a green manure. Fifty acres will be used in this rotation on the irrigated land but, as can be seen, the plan does not call for continuous watering. "We will use the water only when absolutely necessary," says Mr. Fort.

Rotation No. 2 will be carried out on 90 acres that will be divided into three 30-acre fields. This will give the farm 30 acres of alfalfa for hay, 30 acres of Sudan grass and 30 acres of alfalfa-brome grass for pasture. The 2 plots containing alfalfa will be maintained on the same acreage for 5 years, then plowed under.

Theoretically, all the maize and other grain will be fed to livestock on the farm rather than sold as cash grain. Most maize is grown in the area as a cash crop.

For their cattle the Forts will have brome-alfalfa pasture in the spring and fall, native grass and Sudan for summer and wheat pasture for winter. During favorable years this will give them a year-around pasture program. In less favorable years they will have silage and hay to fall back on.

The hogs, of course, will have Sudan

and brome-alfalfa pasture and will be fed milo grain rather than corn.

Mr. Fort expresses his ideas this way: "We want to utilize a maximum of pasture under irrigation and let the livestock harvest it for us. When we farmed back in Stafford county I can remember times when I fed cattle in the dry lot for 9 months out of the year. We want to keep our cattle on pasture as the most economical and labor-saving method of feeding. We plan to irrigate only when necessary to insure crop production."

A Good Reason

Records at Kansas State College show the Forts probably could make more money with a deferred-feeding program so we asked Mr. Fort why he chose a cow herd. "Our first concern right now," he said, "is to expand what we have with a minimum of investment. We already have half as many cows as we want, and it will be a lot easier and less risky to expand this herd than to sell them out and buy into a feeding program. We plan to creep-feed our calves, too, which will increase our use of home-grown feeds and will bring us a higher net income than straight feeder-calf production."

Looking over the situation, Mr. Fort goes on to say: "I think it will pay us to play things close to our belts for the next few years. We can always change, you know, if things look different later."

Grant county as a whole presents a problem in livestock production planning. There are 368,640 acres in the county and of this total 315,064 are in cropland. This leaves only 53,000 acres of grass.

"But," says Joseph Chilen, county Extension agent, "possibly 15,000 to 20,000 acres of the poorest producing land could more profitably be reseeded

Keys to Happiness

A new playlet, "Keys to Happiness," has been written for our readers. It is suitable for school or Sunday school classes for any time of the year. It requires 7 young folks and one adult. Well suited for either small children or teen-agers. Send 5 cents to the Entertainment Editor, Kansas Farmer, Topeka, and your order will receive prompt attention.

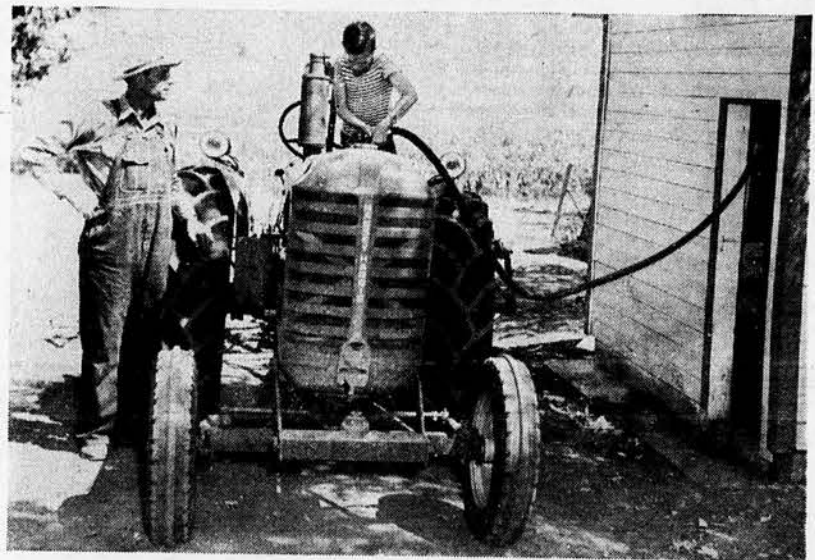
to grass mixtures, and certainly all of our permanent grass could be improved along the lines being followed by Mr. Tuttle.

"If the carrying capacity of our native pasture can be increased 5 times, as indicated on the Tuttle pastures," Mr. Chilen continues, "it would be like adding 200,000 acres of pasture to the county's total. That would be quite a help to our livestock program. Then, by correct use of summer fallow and irrigated temporary pastures and feed crops, we could come as near to stabilized livestock production on many farms in this area as it is possible to find anywhere."

Due credit should be given the Soil Conservation Service for results on both the Tuttle and Fort farms. The SCS assisted both in laying out their irrigation systems. The original sand love-grass seed used by Mr. Tuttle was supplied by the SCS, which also rented him the grass drill. From his original plot, Mr. Tuttle then grew his seed for additional expansion.

Local SCS representatives in Grant county are Fred Meyer, Jr., and Dale Barb.

Built Farm Service Station



Axel Andersen, left, of Lincoln county, watches while his son, Larry, fills the tractor with gas from their farm service station. All gasoline, oils and grease are stored in the small building at right and are out of dust and rain.

Better Bins Are Ready



The Eaton Metal Products Co., Omaha, announces several improvements in their all-steel galvanized grain bin models, which run from 1,000- to 3,000-bushel sizes. Improvements include a one-piece pressed door for greater strength; a redesigned door frame to make the door watertight; a new one-piece ventilator top, and improved fabricating methods that provide tighter joints between side sheets.

BY USING his ingenuity and a little lumber, Axel Andersen, Lincoln county farmer, has his own private gasoline and oil service station. It has proved very efficient.

He built a small building with an overhead rack, on which he placed one 500-gallon and two 100-gallon tanks. He has a cutoff on each barrel so he can switch from car to tractor gas. The gasoline is transferred from the tanks to tractor or car by gravity thru hose and nozzle. All oil and grease barrels are stored in the small building at ground level.

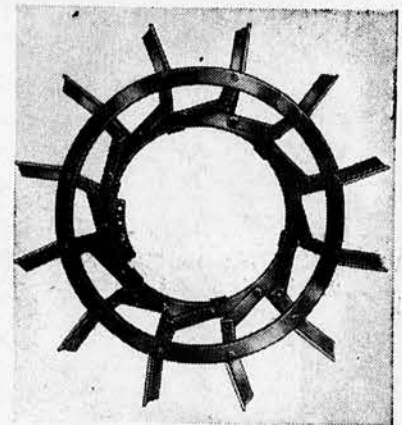
"By using this small, inexpensive storage house," says Mr. Andersen, "I can keep all my gas, oils and grease in out of the dust or rain."

It Made a Difference

Both nitrate and phosphate paid for themselves on wheat this year, reports A. C. Hansen, Washington county. He applied 50 pounds of 45 per cent phosphate an acre when seeding and 100 pounds of ammonium nitrate an acre in spring. Average yield was 23 bushels an acre.

Mr. Hansen left test strips for both fertilizers and could easily find them in his fields right up to harvest time. He uses fertilizer every year and has for several years. Using it consistently year after year is the best method, in his opinion.

For Tough Job



For positive traction under tough conditions is the purpose of this permanent tractor wheel attachment, announced by the Ariens Company, Brillion, Wis., under the trade name "Retracta-Matic." Once bolted to the tractor wheel it stays on. By removing one safety bolt, it opens for instant use. It is retractable so does not interfere with normal operation of tractor. Installed in 20 minutes it provides sure grip for snow, ice, mud or other slippery conditions. You can get full details from the company.

From a Marketing Viewpoint

By H. M. Riley, Livestock; John H. McCoy, Feed Grains; Joe W. Koudele, Poultry and Eggs.

What effect will devaluation of foreign currencies have upon our domestic farm prices?—R. G.

A change in values of most of the world's major currencies (23 countries by latest count) was undertaken last week to establish a new set of values in relation to the American dollar.

It is hoped by Britain, and other devaluating countries, this move will make for a more easy flow of goods out of their countries and thus ease the drain on dollars owned by them.

At the outset, at least, devaluation will reduce the selling price of goods sold to the U. S., and increase the price of goods bought from the U. S. Thus the tendency would be to decrease our exports and increase our imports of goods.

However, in the longer run, countries devaluating that rely heavily on dollar countries for their imports may find it difficult to hold prices down. Thus higher import prices might be reflected in higher living costs, which in turn would stimulate demand for higher wage rates. This would tend to neutralize the effects of devaluation.

At present the greatest percentage of our farm product exports are under ECA so are not directly affected by devaluation. In general, it is felt that the devaluation move will have very little immediate effect on most farm products, but will tend to have a bearish influence in the long run.

Last winter I bought 25 yearling and long yearling Holstein steers. They have been on good pasture this summer and have grown reasonably well. I can buy maize, alfalfa hay and oats to feed them, but corn would have to be shipped in. Should I feed them for awhile or sell now?—M. S. M.

I assume these cattle probably weigh 800 to 900 pounds by this time and would sell for \$16 to \$20 per hundred-weight. These steers are not the kind that are most suitable for a short turn in the feed lot at this time of year, due to the seasonally low level of prices for short-fed and grass cattle grading common to medium. These kinds of cattle usually sell much better in the spring when supplies are more limited. If you decide to carry them over they should be wintered well with some alfalfa hay in the ration or a small

amount of protein supplement along with other rough feed. Then grain them for 40 to 60 days beginning sometime in February, and market them by late April or the first of May.

It may be that if you can make some money on them by selling now, you might not wish to risk carrying them over until spring. The general business situation has strengthened slightly in recent weeks, but the longer term trend may still be downward. Any declines in cattle prices this fall and winter will affect the better grades of fed cattle more than the lower grades such as you have on hand. This is due to the fact that prices for these lower grades are already at seasonally low levels.

What are the prospects for wheat prices going up?—E. C.

Wheat prices are expected to fluctuate near loan levels until prospects for next year's crop can be appraised. Selling by farmers in the hard winter wheat region has been light and it appears that prices near the loan rate will be necessary to induce enough selling to satisfy market demands.

As prospects for the next crop become evident that will be a dominant market factor. If prospects indicate above-average yields, it is likely prices will decline. Prospects for yields below average would tend to sustain prices near or slightly above loan level.

What is the outlook for prices of chickens?—G. K.

Recent reports indicate that collections of chickens from central western plants have been curtailed in response to falling prices. This in turn should result in lighter arrivals at consuming centers. The advent of cooler weather is expected to stimulate consumption, and the present heavy movement of poultry into storage probably will have a supporting or slight strengthening influence upon prices in the near future.

Stop Spud Sprouts

If your potatoes show a tendency to sprout, use one of the chemical sprout inhibitors. That's the suggestion of W. G. Amstein, Extension horticulturist at Kansas State College in Manhattan. He reports that inhibitors, which are sold under several trade names, have given good results. He warns that seed potatoes should not be treated.

MYRTLE . . . Right Around Home

By DUDLEY FISHER



8-19

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Will Pound Drop Hurt?

(Continued from Page 5)

In official diplomatic language, the new currency exchange rates are designed to make it easier for the Sterling Area countries, western European nations not in either the "dollar area" or the Sterling area, and Canada, to get dollars thru foreign trade.

In simple, everyday terms, that means making it possible for these countries to sell more of their products in the United States, and harder for their citizens to buy American-made goods and commodities in their home markets.

Take the case of Britain and the United States. With the pound sterling officially worth only \$2.80 in exchange value, instead of \$4.03, a British manufacturer could sell his product in the United States for \$28 a unit and get as many British pounds as when he sold it for \$40.30 under the old rate of exchange.

On the other hand, the American producer or manufacturer who had been getting \$40.30 in U. S. dollars for a unit sold in the United Kingdom, under the new rate of exchange would get only \$28 in U. S. currency for the same unit, or 30.5 per cent less.

Therefore, the British price of the American article will have to be raised so the American manufacturer will not take a loss of \$12.30 per unit. In other words, higher prices (in pounds, shillings, and pence) in Britain.

In actual practice, the differences will not be that great, after the first flurry is over. British manufacturers, Australian wool pool, British rubber cartel, will mark up prices in pounds to what they think the "traffic will bear." And British Labor will demand higher wages.

The effect in the United States, if no other factors were involved, would be to reduce American prices in the United States on all articles imported, and thereby force down prices on American-produced articles competing in the American market against the imported articles.

In a general way, devaluation of foreign currencies, in relation to the American dollar, will tend to lower prices in the United States, thru (1) increasing imports into the United States at lower prices and (2) decreasing imports from the United States to these other countries, thereby increasing supplies (surpluses on most farm products) for the American market.

As an offset to the drive for lower prices in America, thru increased imports and lowered exports, if coal and steel production are sharply reduced—whether by strikes or other causes—then supplies of articles for which coal and steel are essential will not be made in surplus quantities. So the prices on many manufactured articles might not drop as sharply—if at all—as on commodities such as corn, wheat, meats and other products of the American farms.

So, the American farmer may get squeezed between foreign policies tending toward lower prices for his products, and Administration-Labor policies tending to hold prices for industrial products at relatively higher levels.

Autos, and motor vehicles generally, offer another example. Supplies in these lines have so nearly caught up with demand that manufacturers face what is called "buyer's" markets. But if strikes in the auto industry should curtail production materially, then prices on motor vehicles could remain at higher levels than the prices for farm products, for instance.

Actually, Britain and the other nations which have devalued their currencies—in relation to the American dollar—probably have started a realistic move toward the lower standard of living necessary to pay the costs of World War II, and of changes in relations between Europe and colonial possessions in part causing World War II, and in part caused by World Wars I and II.

These 2 world wars have eaten up the savings which Europeans had invested in other parts of the world as well as in their own industrial plants and trade. And without those investments, it is hard to see how Europe—including Britain—can live without new sources of income. So far the United States, thru UNRRA, the Bretton Woods agencies, the Marshall Plan, and various loans and gifts, has at-

tempted to fill the gap. Whether it can continue to do so is questionable—even in Washington.

Even the United States has been hard hit by the war and postwar impacts, altho most Americans do not yet realize it. Just for example, on a per capita basis Kansas owes \$3,600,000,000 of the federal debt. That amounts to a federal mortgage of \$70 an acre on all the land area of Kansas. Because we still are engaged in spending the money "created" by the national debt of 260 billion dollars (plus close to 40 billion dollars of other federal obligations not officially listed as public debt), the impact of the federal debt and resultant high federal, state and local taxes is not yet generally recognized.

The Tripartite (Britain, Canada and the United States) conference in Washington has done some other things that Washington now is busy explaining are for the good of everyone concerned.

For one thing, a way has been found to get around the Congressional provision that Marshall Plan funds should not be used to buy commodities abroad when such commodities are in surplus at home. Secretary of Agriculture Brannan (figurehead sponsor for the Brannan Plan) issued a statement. The gist of it is that using Marshall Plan funds to buy Canadian wheat really is to the advantage of the American wheat grower. The argument is that Britain would buy from Canada anyway, so why not let Britain use American dollars for that purpose instead of British pounds? Britain would rather use American dollars; Canada would rather get American dollars. So, "Ish ka bibble," as the slang "I should worry" of a quarter of a century ago ran.

Also, Secretary of Agriculture Brannan has come to the rescue (of whom we are not quite sure), with a new hog price-support program. It is summarized by the following statement from the Department:

"U. S. Department of Agriculture announced (September 13) that if hog price-support operations are required this fall and winter, they will be conducted so as to maintain the U. S. average farm price at MONTHLY SUPPORT LEVELS rather than to maintain prices at WEEKLY SUPPORT LEVELS FOR INDIVIDUAL MARKETS. Hog prices will be supported at 90 per cent of parity thru March 31, 1950, as previously announced.

"The national average support level for September is \$17.70 per hundredweight based on 90 per cent of parity for March 15, 1949, with seasonal adjustment. On August 15, the average price received by farmers for their hogs was \$19.40 per hundredweight. . . .

"Figures based on these (monthly support levels) will be established for each week and will be used only as guides for support operations. . . . While the weekly guides will not be considered as specific support levels, they will be used as a basis for comparison with the combined weekly price of barrows and gilts at the markets.

"The guides for the 7-market average in September will be \$18.50 per hundredweight until September 24, and \$18.25 for the remainder of the month. Weekly guides will drop seasonally about 40 cents per hundredweight each week during October and November. . . . While support prices will not be established for local markets, operations will be conducted AS FAR AS PRACTICAL IN SUCH A WAY as to maintain hog prices by areas in line with the usual relationship to the U. S. average.

"Since purchases of live hogs for price support do not now appear feasible, purchases of pork and pork products will be the method used if support for hog prices become necessary. The Department will buy pork only from packers operating under federal inspection since pork products by other slaughterers cannot be shipped across state lines or exported from the United States. The details of any purchase programs will be announced later."

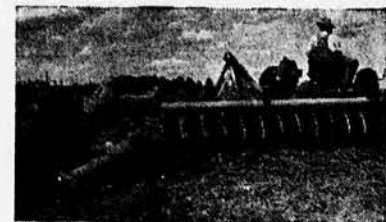
Bureau of Agricultural Economics announces (September 14) that—

"Farmers' cash receipts from marketings in August are estimated at 2.2 billion dollars, down 18 per cent from August of last year. Cash receipts in September are expected to total about 2.5 billion dollars, also 18 per cent less than last year. Receipts for the first 9 months of 1949, totaling almost 18.8 billion dollars, will be about 11 per cent less than in the corresponding period of 1948."

If the combination of foreign policies, domestic policies, coal and other strikes, and world conditions generally, result in a continued downward slide of farm prices and farmers' incomes, the Brannan Plan (Treasury subsidies to promise high farm incomes and guarantee cheap food prices) will be "sold" to the farmers in the 1950 congressional elections. Organized Labor leaders, whose "economists" helped draft the Brannan Plan, already have announced themselves "sold" on the Brannan Plan.

In the language of the song from "Oklahoma" musical comedy: "The Fair Deal and the Farmer should be Friends."

WHAT SIZE PLOW WILL YOUR TRACTOR PULL?



No matter what size plow you're now using, you'll find a new Schafer One-Way plow that your tractor will pull—and you'll plow faster to several times as fast!

Pays for itself because it saves time, labor, fuel and real money! The easiest pulling plow ever built! Now with new features—hydraulic lift arm, new construction that lets you get up to fences, sealed, lifetime barrel!

"This is the plow for me!" says A. W. Dills of Panhandle, Texas. "After checking on other makes I bought my 14 ft. Schafer plow!"

Why not see your dealer today—or write for free, illustrated folders?

THE SCHAFER PLOW, INC.
207 SIMPSON PRATT, KANSAS

3% SAVE BY MAIL

NOW—let your idle funds be earning a LIBERAL dividend. We've been paying at least 3% on savings for 20 years.

United Offers You — SECURITY - AVAILABILITY

UNITED BUILDING AND LOAN ASSOCIATION

MAX A. NOBLE, President
Write Dept. 14 for information
217 E. WILLIAM - WICHITA 2, KANS.

LOOK! TWO TRACTORS IN ONE

with the **Handee Axle Converter**

Don't fight mud, snow and ice with your row crop wheels. Convert your tractor to standard tread with a Handee. You can do more jobs more quickly and easily.

See your dealer or write . . . \$149.50

HANDEE FARM EQUIPMENT CORP.
BETTENDORF, IOWA

AIR COMPRESSORS

THE ONLY AIR COMPRESSOR designed especially for general farm work. Choice of Electric, Gas or Tractor-Power models. Light weight; easily portable, standard pressure, wide price range. Write for new folder. See your implement dealer.

FARM POWER MFG. CO.
Columbia, So. Dak.

NATIONAL Vitrified SILOS
Everlasting TILE SILOS

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

NO Blowing In Buy Now
Blowing Down Erect Early
Freezing Inmate Shipment
Rowell Roller Bearing Engine Cutters.

Write for prices. Special discounts now Good territory open for live agents.

NATIONAL TILE SILO COMPANY
636 Livestock Exchange Building
STATE SIZE WANTED KANSAS CITY 15, MO.

OTTAWA POST HOLE DIGGERS

(THERE IS NO OTHER LIKE IT!)

Prices from \$99.50 up. The digger you have been waiting for. Quick hitch to any tractor with power take-off. Fastest power auger return. Heavy hi-speed two flight auger. Safety clutch prevents damage, eliminates shear pins. Strictly one-man machine. Write today for digger facts, new low prices.

OTTAWA MFG. CO., 5-911 Elm St., Ottawa, Kans. Patents Pending

WANTED

Old Live Horses and Dry Bones

We Pay More for Them Than Anyone Else

Delivered Our Plant

HILL PACKING CO.
Topeka, Kan. Tel. 8524

Coming Events

October 1—Scott county nutrition meeting, leader, Gertrude Allen, KSC nutrition specialist.
 October 3—Ellis county field demonstration on shaping and seeding a waterway.
 October 3—Mitchell county FFA district leadership school, Beloit.
 October 3-9—National Dairy Cattle Congress, Waterloo, Iowa.
 October 4—Graham county FFA district leadership school, Hill City.
 October 4-5—Marshall county foods and nutrition training school for foods leaders, Mary Fletcher, leader.
 October 4-8—Sedgwick county state 4-H Club Fat Stock Show, Wichita.
 October 5—Osage county-wide home demonstration unit achievement day, Osage City high school.
 October 5—Ford county FFA district leadership school, Dodge City.
 October 5-6—Cowley county home demonstration lesson on health, Winfield.
 October 6—Washington county leaders training meeting in nutrition, with Mary Fletcher, KSC Extension specialist in foods and nutrition.
 October 6—Ellis county farm management meeting.
 October 8—Wabaunsee county, good 4-H and commercial replacement calves, sponsored by Wabaunsee county Cattlemen's Association.
 October 8—Cloud county 4-H foods leaders' meeting, "Quick Breads," Elizabeth Randle, KSC foods and nutrition specialist, leader, Concordia.
 October 8-15—International Dairy Exposition, Indianapolis, Ind.
 October 10-11—Jefferson county agricultural engineering school.

October 10-13—22nd National convention of FFA, Kansas City, Mo., Municipal Auditorium.
 October 10-14—National Association of Future Farmers of America, Kansas City.
 October 12—Ellis county Farm Bureau members to attend district membership meeting, Stockton.
 October 12—Harvey county beef day, Lot Taylor, leader.
 October 14—A.M.—Smith county row crop field day, Smith Center.
 October 14—P. M.—Republic county row crop field day, Belleville.
 October 14—Scott county farm management meeting, H. C. Love, KSC Extension Economist, leader.
 October 15—Cloud county corn field day, L. E. Willoughby, leader, Concordia.
 October 17—Reno county FFA district leadership school, Buhler.
 October 17—Pottawatomie county, community meeting, Rock Creek township.
 October 17-20—Johnson county, State Grange meeting, Olathe.
 October 17-24—American Royal Livestock Show, Kansas City.
 October 18—Pottawatomie county, community meeting, Blue Valley township.
 October 18—Harper county FFA district leadership school, Harper.
 October 19—Montgomery county FFA district leadership school, Independence.
 October 20—Lyon county FFA district leadership school, Emporia.
 October 20—Doniphan county cornfield day to study the result of corn fertility and variety tests.
 October 21—Cloud county citizenship leaders, Per Stensland, leader, Institute of Citizenship, Concordia.
 October 24—Pottawatomie county, community meeting, Mill Creek township.
 October 25—Pottawatomie county, community meeting, Wamego and Louisville townships.
 October 25—Sumner county beef field day, Caldwell.
 October 25—Cloud county home demonstration units annual achievement day, Concordia.
 October 26—Harper county beef tour.
 October 26—Pottawatomie county, Pottawatomie township.
 October 26—Wabaunsee county state balanced-farming tour. Stops to be announced later.
 October 27—Cheyenne county, meeting of farmers and bankers to discuss county organization of farm management association, H. C. Love, leader.
 October 27—Osborne county sorghum field day.
 October 28—Finney county turkey field day, Garden City Experiment Station.
 October 28—Pottawatomie county, community meeting, Belvue township.
 October 28—Reno county beef tour, Lot Taylor, KSC specialist.
 November 4—Pottawatomie county, community meeting, St. George township.
 November 7—Scott county farm-management association meeting, H. C. Love, KSC Extension economist, leader.
 November 7-8—Sedgwick county, state-wide health conference, Wichita.
 November 7-9—National Polled Hereford show, Memphis, Tenn.
 November 8—Harvey county poultry day, Leo Wendling and M. E. Jackson, leaders.
 November 8—Pottawatomie county, community meeting, Green township.
 November 9—Pottawatomie county, community meeting, St. Clare township.
 November 10—Pottawatomie county, community meeting, Grant township.
 November 14—Pottawatomie county, community meeting, Blue township.
 November 17—Southwest Kansas Hereford Breeders' Association show and sale, Dodge City.
 November 23—District farm-management meeting, Colby.
 November 27—Wabaunsee county Farm Bureau annual meeting, Alma.
 November 28—Johnson county Farm Bureau annual meeting, Olathe.
 November 28—Ellis county annual Farm Bureau meeting, 7:30 p. m., Senor Roberto de la Rosa, will speak.
 November 29—Jefferson county annual Farm Bureau meeting.
 November 30—Washington county annual Farm Bureau meeting and dinner.



KOSCH FRONT MOUNTED MOWER

For Farmall H & M Reg. and F-20 John Deere A & B

See Where You're GOING.
See Where You're MOWING!

Write Dept. K-12 **KOSCH MFG. CO.** Columbus Nebr.

Add Years To Your Silo With

SILO SEAL

Merit

The acid in silage, over a period of years, causes the lining of silos regardless of construction material, to disintegrate. Immature feeds and excessive moisture silage, being extremely high in acidity, are especially injurious to silo linings.

Silo Seal has been successfully used for nineteen years by Kansas Farmers and Dairymen and can be applied as silage is fed out, thus eliminating scaffolding. Write today for literature. Immediate delivery.

MANUFACTURED BY
McPherson Concrete Products Co.
McPherson, Kansas

20% FASTER GAINS • 25% Less Feed!



SAVE Hours of Time

"Greatest feeder ever built!" say hog men. Repays cost over and over again in time and feed. Wider at bottom, never clogs. Improved trough covers keep feed dry, any weather. Feed controls adjustable for all feeds. Feeds from both sides. All steel. Can't bulge. Easy to move. 55-bu., 30-bu., 15-bu. and 4 1/2-bu. sizes

WRITE for full details and prices. Ask about famous Hastings Grain Bin.

HASTINGS EQUITY GRAIN BIN CO.
Dept. KF-3 Hastings, Nebr.

QUIET, EASY RUNNING, SELF REGULATING

CURRIE WINDMILL

AS LOW AS \$37.00

Better mill—lower cost, in famous Currie, dependable for 60 years, Guaranteed for 5 Years! Self oiling or open geared, direct center lift, automatic speed control, internal brake. More efficient, vane and sail design; responds to slightest breeze. BEST FACTORY PRICES SAVE UP TO 30%. PROMPT SHIPMENT. FREE LITERATURE. WRITE TODAY.

CURRIE WINDMILL, DEPT. C-63 SALINA, KANS. DIRECT TO YOU

Chime for Doorbell

If you are lucky enough to have an old mantel clock with a pleasant striking tone tucked away in your attic, remove its spiral chime and substitute it for the gong on your doorbell. You will find its soft, pleasing tones a welcome change from the jangling bell.—Mrs. F. F.

Party Fun

It's fun to have a school-days party—readin' an' writin' an' 'rithmetic, also singin' and "jogaphy." Our leaflet, "A School Days Party," offers suggestions for invitations, decorations, entertainment and refreshments. Send 3c for a copy of this leaflet to Entertainment Editor, Kansas Farmer, Topeka.

NEW! HORN-DRAULIC "50" LOADER



FEATURING THE NEW HORN DUAL SPEED CYLINDERS

Two cylinders in one—More break-away power—Greater speed and height! NEW design easily installed. The new Horn-Draulic "50" features— heavier construction—greater efficiency—9 labor saving attachments plus the exclusive HORN DUAL SPEED CYLINDERS. Write today for FREE FOLDERS. GET ALL OF THE FACTS!

NOW! TWO HORN-DRAULIC MODELS FOR ROW CROP OR CONVERSION TRACTORS!

For those who desire the Cable Type the HORN-DRAULIC REGULAR is available at slightly lower cost. HORN-DRAULIC LOADERS are also designed for Small Standards, Standard and Track Type Tractors.



NOW! STOP CROP LOSSES AND ADD SOIL NUTRIENTS WITH THE HORN SHREDDER

16 Swinging hammers — 3 separate cutting heads give blanket coverage. No chutes to jam or line up—No windrowing—No bearing heat—No missed stalks—WRITE TODAY FOR FREE FOLDER!

HORN MANUFACTURING COMPANY
DIVISION OF HORN INDUSTRIES
FORT DODGE, IOWA—EST. 1909

The BEAR CAT

COMBINATION Grain and Roughage Mill also Ensilage Cutter

NEW Adjustable Drop-Apron FEEDER



Grinds any feed—green, wet or dry. Snapped or ear corn, roughage bundles or bale flakes and no monkey business. It really grinds, and with ordinary farm tractor. Has both cutter head and heavy swing hammers. Adjustable Drop-Apron Feeder works in any position from ground to truck bed height. Get full information on this real honest-to-goodness Bear-Cat Grinder. Four sizes. Write—Western Land Roller Company, Box 136 Hastings, Nebr.

Model 2A-DFI

SALINA Concrete Stave SILOS

Built to Last a Lifetime

Better built, latest in design. Constructed of heavy, power-tamped steam-cured staves, joints distributed. More all-steel, air-tight, hinged doors save labor. Inside finish troweled on, plus protective coating. Salina Silos have been giving perfect satisfaction for 36 years.

Write today for Free Folder

SALINA CONCRETE PRODUCTS CO.
Box K SALINA, KANSAS



THE MOST WANTED BOOTS IN AMERICA

HYER

The Brand Of Top Quality

Since 1875 Hyer has been making America's finest boots for dress or hard service. The old West's most skilled bootmakers (4 generations) produce them from ONLY full grain premium leather. Unmatched comfort built right in, smart design, and a long life of service identify them. Our best recommendation stems from the fact that chances are your grandfather, great-grandfather, (father, too) wore Hyer. Any wonder Hyer boots are in such demand?

HYER makes Boots for HIM • HER
Regular and custom-made styles

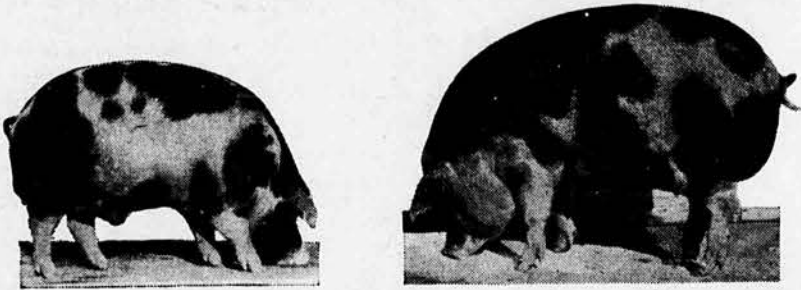


Ask your dealer for Hyer Boots or Write Direct for Dealer's Name.

C. H. Hyer and Sons
Makers of Fine Boots Since 1875
OLATHE, KANSAS

Spotted Poland China Boar and Gilt Sale

Horton, Kan.—Civic Center Bldg.—Oct. 6—1 P. M.



20 Boars and 20 Gilts. Selected from our entire 1949 pig crop. Everyone a good individual and carrying the best of bloodlines. Mostly sired by Redemption and Parker's Thick King. Out of dams of such breeding as Warrens' Commander, Missouri King and Maplehurst Diamond. Anyone in need of top notch breeding stock to strengthen their herd or to enlarge their present herd should not fail to attend this sale. It will be your opportunity to purchase the best in Spotted Polands. For information and catalog write

Chester Parker & Sons, Leona, Kansas

Mike Wilson for Kansas Farmer

Annual Poland China Boar and Gilt Sale

October 13th at the Farm



Forty Head Spring Boars and Gilts

Featuring the get and service of our great herd sire—Dress Parade. Our winnings at the Kansas Free Fair in 1949 are as follows: First aged boar, first and second senior boar pig. First and second junior boar pig. Senior and grand champion boar on Royal Parade. First aged sow, first yearling sow. First junior yearling sow. First and junior champion on junior sow pig. First aged herd and first and get of sire by Dress Parade. First produce of sow. First breeder and feeder litter. Grand champion sow on Challenger's Beauty. A full sister and litter mate to the 1947 Illinois grand champion. For catalog information write

C. R. ROWE and SON, Scranton, Kansas

Jesse R. Johnson or Mike Wilson for the Kansas Farmer

Hartmans' Size and Quality Proven Poland Offering

at farm 14 miles south of Abilene (Highway 15)

Friday, October 14



Hartmans say "When better Polands are grown, we will have them."—Jess.

40 TOPS (from 100).

20 Boars (good enough to head any farmer's or breeder's herd).

20 Gilts (suited for herd foundation).

Out of our great 900-lb. sow families that we have been many years in developing.

Offering by 5 different boars (new blood for old customers). A large percent sired by the great Wonder Boy, the best boar we ever owned. Take the day off and visit our good herd.

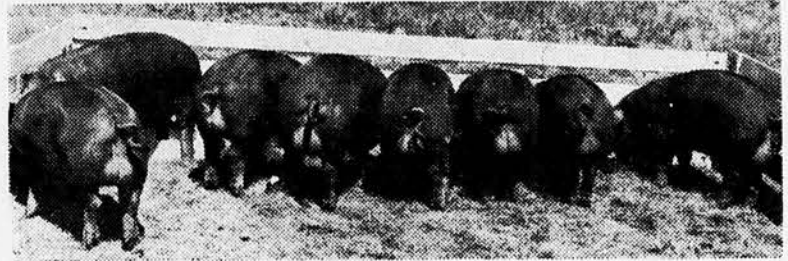
For catalog write

J. J. Hartman & Son, Elmo, Kan.

Auct.: H. S. Duncan

Jesse R. Johnson with Kansas Farmer

Come to Horton, Kan., Saturday, Oct. 8 Kansas Duroc Sale & Show



50 TOP DUROCS (from 30 Herds)

Representatives of the greatest families of the breed. Boars good enough for herd headers and gilts suitable for foundation herds. The best have been chosen as representatives of our herds.

Catalog for the asking. Write

FRED GERMANN, Manhattan, Kansas

This will be a real hog show.

Auctioneer: H. J. McMurray

Mike Wilson and Jesse R. Johnson with Kansas Farmer

THE HOME OF Quality Kansas Durocs

We have gone all out to present you with a popular offering this fall.

1—A litter by ROYAL KING, 1948 Nebraska Grand Champion.

2—A litter by FIRST BASE, 1948 Kansas Grand Champion.

3—A litter by JAYHAWK DESIGN, top selling boar in the 1948 Oklahoma

Fall Sale.

PLUS many other excellent prospects sired by our herd sire, a real breeding son of the Fred Gihde boar, ROYAL SUPREME III.

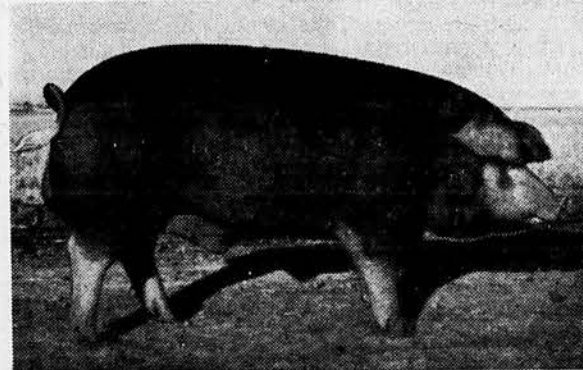
FALL SALE, OCTOBER 31, NITE SALE 8 P. M.

At Marysville Sales Barn

ALBERT JOHANNES - - MARYSVILLE, KANSAS

BAUER BROTHERS ANNUAL BOAR AND GILT SALE

Wed., Oct. 19, 1 P.M., (Over the line in Nebr.) Fairgrounds, Fairbury, Nebr.



THIS IS GLADSTONE

50 HEAD
(Tops from 200 head)
30 Boars — 20 Gilts
Selling our greater than ever offering including the Nebraska Junior champion sired by Gladstone and the reserve junior champion sired by Copywright. Also several top boars out of the Nebraska grand champion sow of 1949 sired by Gladstone. Offering is sired by Gladstone, Copywright, Mandarin and Copywright's Image. These are deep sided, long of body and wide. The kind that pleases the farmer or commercial pork producer. Come — see these. Write for catalog, Bauer Brothers, Gladstone, Nebraska.

Harve Duncan, Auct.
Jesse R. Johnson
Kansas Farmer

BUY CHAMPIONS IN KOCH'S CHESTER WHITE BOAR AND GILT SALE

The sale is TUESDAY NIGHT (7:30 P. M.) OCTOBER 11. Sale in sales pavilion at Junction of Highway 77 and 36 at

Marysville, Kansas

25 SPRING BOARS—20 SPRING GILTS
The Offering: Real growthy kind weighing from 225 to 300 pounds. They are the medium type with lots of quality. The best of breeding as most of the offering is sired by Champ Junior Successor the reserve junior champion of Iowa 1948. Two litters by Arkay's Topper by Exploiter and one litter by Super Climax 1948 Iowa Junior Champion.

These Champions Sell—The boar whose picture appears in this advertisement. Also his littermate boar that stood 4th at Nebraska this year. We will the Reserve Grand Champion Senior Spring gilt at 1949 Nebraska State Fair. All of the junior and senior spring pigs that won for us at Nebraska this year are selling. Farmers Note: Don't feel that because we sell some prize winners that you can't buy some good Chester Whites worth the money here. You did last year and you can again this year. Attend, it will be worth your while. Offering registered and immune. For catalog write to ROY KOCH, Bremen, Kansas. Auctioneer: Bert Powell

ARKAY'S ANDY, Reserve Junior Champion Boar 1949 Nebraska State Fair. He sells.

Auctioneer: Bert Powell

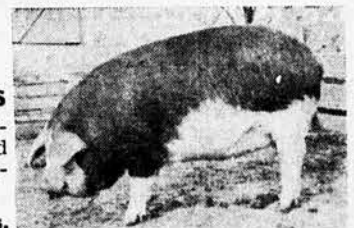
KANSAS STATE HEREFORD HOG BREEDERS' ASSOCIATION ANNUAL SALE

October 22, Osborne, Kan.

60 HEAD—30 Boars, 30 Gilts

These boars and gilts are selected on individuality and are of the most popular blood lines of the breed. For particulars and catalog, address

Milt Haag, Sale Manager, Holton, Kansas.



THIS IS IT
THE CENTRAL KANSAS HOLSTEIN BREEDERS
FALL CONSIGNMENT SALE
 Hutchinson, Kan., Fairgrounds
 Monday, October 24, 1949



80 Head of Registered Holsteins
 The most desirable group of Holsteins ever consigned in this series of sales, and only topped by a state sale.

The offering of bulls in this sale are something special. Many sired by proven sires, the average records on the dams of the bulls consigned is 554 fat. From V. G. and G. plus dams. Dams records up to 754 fat 2x. They include a son of Femco Almas Only Son, King Creator Champion Segis, and the (Ex.) Breezey Lane Model Fobes 8th. Many other surprises in this bull offering. Your bull problem ends in Hutchinson, October 24th.

The cows include 3 Very Goods, many fresh or due sale time.

The bred heifers include granddaughters of King Creator Champion Segis, 8 of them, Sir Bess 'Tidy, LeRoy DeKol Ormsby, "Rock," Maytag Ormsby Fobes, K Arnold K. Posch, and daughters of Quin-Lynn Smoky Dean Harmony, and many other good ones.

THE CONSIGNORS


W. S. BUCKLEY, Garden City, Mo.
 ERNEST A. REED & SONS, Lyons
 ROY HOPKINS & SON, Clearwater
 R. S. LYMAN, Burrton
 SCHNEIDER BROS., Salina
 LLOYD SCHULTZ, Pretty Prairie
 E. V. FICKEL, Chanute
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 ABRAM THUT, Clearwater

WALDO MUELLER, Halstead
 GROVER G. MEYER & SONS, Basehor
 MOTT & KANDT, Herington
 BEZLEY FARMS, Girard
 P. G. HIEBERT, Hillsboro
 A. F. MILLER, Yoder
 WARREN RICH, Pratt
 CLYDE ALTENHEAD, Hutchinson
 WILBUR SLOAN, Cleveland

Catalogs out about October 5—Send for yours NOW.
 Watch October 15 issue Kansas Farmer for more detailed report.
 This is It—You cannot afford to miss.
 Send for catalog now to T. HOBART McVAY, Sale Mgr., Nickerson, Kan.

7th Annual Kansas State Holstein Sale
 This year at
Herington, Kansas (Tri-County Fairgrounds)
 Monday, November 7, 1949

When 45 Kansas Holstein Breeders Present
65 HEAD OF SELECTED HOLSTEINS
 in Another Quality State Holstein Event




Remember 10 head of selected bulls, whose dams have a classification score of 86.4. Bulls selected upon the merits of their dams production, classification, and pedigree. You can do no better.

Plan now to attend this state-wide event where a great array of cows, bred heifers, open heifers have been made available for you to purchase.

For the youngsters, a 4-H sale of 15 heifer calves, the morning of November 7, preceding the adult sale. Calves available to Kansas boys and girls, only.

Plan to attend the sale, and the banquet, the evening of November 6. Send for your catalog to GEO. E. STONE, Medicine Lodge, Kan., Chairman Sale Com.; Raymond Bollman, Edna, Kan.; Grover G. Meyer, Basehor, Kan.

FRANCIS WEMPE'S REG. JERSEY DISPERSAL
 at farm 6 miles west on Highway 40; 1 1/2 miles north and 1 mile east
 Lawrence, Kan.—Tuesday, October 18—12:30 P. M.




40 HEAD—Richly Bred Registered Jerseys
 23 Young Cows—Production Tested and Classified
 DHIA herd average—383.8 lbs. fat—21.1 cow years—2x. Including several daughters of Mac's Peer Lad Twice—Gold and Silver Medal Sire; Observer Treasure Lad—Tested Sire; Noble Aim's Design—Superior Sire, etc.

Bred Heifers, Yearlings, Heifer Calves and Young Bulls, sired by Golden Blonde Actor (also selling in sale). Five Star Bull—soon to become a DHIA Proved Sire. Full brother to 3 Gold and Silver Medal cows.

Officially Bang's Vaccinated
 PLAN NOW TO ATTEND THIS SALE OF HIGH PRODUCTION JERSEYS
 For your copy of the catalog write or wire

IVAN N. GATES, Sale Manager, West Liberty, Iowa
 Auctioneer: Warren Collins, Jesup, Iowa Jesse E. Johnson with Kansas Farmer

KANSAS AYRSHIRE PRODUCTION SALE
 October 28—1 P. M.
 Kansas State Fair Grounds, Hutchinson, Kansas



60 head of cows, bred heifers, open heifers and calves. Also a few young preferred pedigree sires. A sale where every animal carries a guarantee of production. They have been individually selected. Watch the Kansas Farmer for additional information.

For catalog write
G. FRED WILLIAMS, Hutchinson, Kans.

Last Call for the
Great Ayrshire Dispersion
of Prairie Belle Farm
 Lancaster, Kansas
 October 7, 1949—1 P. M.
 at the farm

For information call or write
 Richard Scholz, Lancaster, Kansas
 Mike Wilson, Auctioneer

40 REG. BROWN SWISS
 at Auction
 Monday—October 17
 12:30, under cover at the farm near
Genoa, Nebraska

The entire herd owned by
 Dr. Homer Davis to be dispersed
 Selling Nell of Swiss Hills, son of Nancy of Swiss Hills who has 768 lbs. of fat at 7 1/2 years; 15 of his sons and daughters—many cows bred to him.


An unusual opportunity to buy well-bred Swiss.

Write for catalog
NORMAN E. MAGNUSSEN
 Lake Mills, Wis.

135 Grade Holsteins
Selling at Public Auction
October 18, Abilene, Kansas
 11 A. M., Reynolds Sale Barn, West Edge of Abilene

This sale represents the combined dispersal of
 3 Kansas Bred Holstein Herds

JOHN BELL **LEONARD KUHLMAN** **ART QUINN**
 Abilene, Kan. Bennington, Kan. Bennington, Kan.



135 HEAD

25 Heavy Springer 2-year-old Heifers—They are big, fat and ready to go to work—many will be fresh by sale day.

25 Cows—Nearly all fresh in October and November, plenty of milk from good aged cows.

65 Open Long Yearling Heifers—Nearly all calftood vaccinated. Ready to breed for next fall's cows. They are big, growthy heifers. A rare opportunity to get open yearling Holstein heifers that will satisfy the most critical buyer. They are assembled in one place—all you have to do is come to the sale and buy them.

20 Heifer Calves—Six to 12 months old, calftood vaccinated.

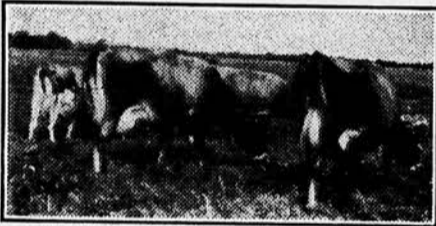
5 Registered Holstein Bulls—Twelve to 24 months old. All have good record backing.

Tb. and Bang's tested within 30 days. Every animal vaccinated for Hemorrhagic Septicemia two weeks before this sale.

This sale represents a large selection of grade Holsteins. The three herds were combined so that you could buy one or a truck load with a minimum amount of driving. This is not an assembled group of cattle. They were bred on the farms of their owners and are clean, healthy, vigorous cattle that will go to work for you.

Mike Wilson, Auctioneer, Topeka E. A. Dawdy, Sale Mgr., Salina

Kansas Jersey Breeders
7th Consignment Sale



Thursday, October 20
 College Livestock Pavilion
Manhattan, Kansas
 Sale at 12:30 P. M.
 Sale Headquarters at the
 Wareham Hotel

50 Head of Select Females, and 2 or 3 Select Bull
Calves will be offered

In conjunction with the sale we will offer 10 heifer calves for 4-H members and FFA members. All cows in milk will be mastitis tested before sale date thru the courtesy of Kansas State College. For mail bids write or wire Ray Smith, Hutchinson, Prof. F. W. Atkeson, Manhattan, Kan., or W. J. Keegan, Columbia, Mo. For catalog write Ray Smith, Hutchinson, Kansas.

Auctioneers, Bert Powell and Lawrence Welter
 Mike Wilson for Kansas Farmer

Third Annual Tri-State Brown Swiss Sale
 Kansas Free Fair Grounds
Topeka, Kan.—October 19—12:30 P. M.



56 HEAD SELLING: 21 Cows—19 Bred Heifers—12 Open Heifers—4 Bulls. A carefully selected sales offering: Every animal offered has met with the approval of the Tri-State Sales selection committee. The type production and breeding of the females offered will appeal to those interested in buying registered Brown Swiss. The young bulls have met rigid requirements from a production and type angle.

25 Breeders from Kansas, Missouri and Nebraska are consignors. Kansas consignors are: Marion Beal, Danville; C. R. Donley, Oxford; Henry Duwe, Freeport; Garden City Experiment Station, Garden City; V. F. Holm, Eldorado; R. W. Latta Jr., Carlyle; O. L. Smith, Lawrence; G. D. Sluss, Eldorado; Paul Timmons, Fredonia; Curtiss Unger, Burden; Earl Webber, Arlington; F. M. Webber, Kingman; R. E. Webber, Kingman; G. A. Weeks & Son, Lawrence; R. W. Zimmerman, Abbyville.

Health: All Tb. and Bang's tested. Health certificate with all animals selling. **Sale Headquarters:** Hotel Kansas, Topeka. Make your own hotel reservations. **Banquet:** Free banquet for those interested in Brown Swiss at 7:00 P. M., October 18, at Hotel Kansas. Banquet reservations to be made with sale secretary Zimmerman or John Miller, care Chamber of Commerce, Topeka. Sale catalogs: Make request to Ross Zimmerman, Rt. 1, Abbyville, Kan., Secretary Tri-State Sale Committee.

Auctioneers: Bert Powell, Topeka, Kan., and Charles Coto, Wellington, Kan.
 Mike Wilson representing Kansas Farmer

Dual-Purpose CATTLE

2ND ANNUAL
Missouri, Kansas, Nebraska
TRI-STATE

**RED
POLL
CATTLE
SALE**



Tuesday, October 18
St. Joseph, Mo.
(Stock Yards Pavilion)

50 HEAD—Consigned by leading breeders of the above states.
15 Bulls — 35 Females

For catalog write
Glenn Umberger, Lincoln, Neb.
Auctioneer: Bert Powell

**Milking Shorthorn
Dispersal**



Monday
November 7th
1:30 P. M.
Junction City,
Kansas

36 HEAD
15 Cows—milking or near freshening, RM breeding from tested and classified herds.
13 Heifers—3 to 15 months old, some bred.
8 Bulls—2 to 18 months old.
Herds of H. A. Rohrer, Julius L. Peterson and Roy Hubbard. For catalog write to
H. A. Rohrer, Junction City, Kan.
Aucts.: Ross Schauls, C. W. Crites
Mike Wilson with Kansas Farmer

Offering Reg. Milking Shorthorns
Bulls calves to serviceable age. Out of richly bred, high-producing dams and sired by bulls that carry the best blood of the breed. Also females.
PETERSON & O'DONNELL, Junction City, Kan.
Farm 7 miles east on Humboldt Creek Road.

Dairy CATTLE

WISCONSIN'S CHOICE



Registered Holstein, Brown Swiss, Guernsey heifer and bull calves. Also choice cows. Many from 500 lb. butterfat dams. Write or phone for prices and availability.

J. M. McFARLAND & SON
Watertown, Wisconsin

**Twelve First and Second
Calf Pure Bred Holstein
Heifers, But Not Reg.**

All heifers vaccinated and Tb. and Bang's tested and all heavy springers. These heifers are large, nicely marked, showing excellent udders. If interested we suggest you call or write us at once.

Mott & Kandt, Herington, Kansas

SMOKY VALLEY HOLSTEINS

For Sale—Serviceable-age bulls from a Proven Bull and Cows with high records.
W. G. BIRCHER & SONS, Ellsworth, Kansas

GOOD HOLSTEINS FOR SALE

5 choice Heifers coming two years old. Selling open (can breed).
1 Holstein Bull 17 months old, sired by a son of Old Billy.
GILBERT BEAGLE, Alta Vista, Kansas

BULL CALVES FOR SALE

We bred and developed the first and only Holstein cow in Kansas to produce 1,000 pounds of fat in 365 consecutive days. Young bulls with high-production dams or granddams.
H. A. DRESSLER, LENO, KAN.

**FIRST—GET PRICES ON
CHOICE JERSEY BULL CALVES
From KNOEPEL JERSEY FARM
Colony, Kansas**

REGISTERED GUERNSEYS

Since 1906 High Production. Correct Type. Popular Bloodlines.
Ransom Farm, Homewood (Franklin Co.), Kan.

Beef CATTLE

REG. HEREFORD HERD BULL

For Sale. 4 years old. Brook Rupert T. 337th, a grandson of Hazford Rupert 81st. An excellent breeder and a choice individual, keeping his heifers. Priced reasonable.
LEONARD E. JOHNSON, Alta Vista, Kan.



CK CASCADE 28th—12 Brothers and Sisters Sell

**CK HEREFORD
CALF SALE**

35 Heifers - 35 Bulls

The group is from ten proven herd sires (with one exception, a first year sire). The uniformity of type and quality is something to study.

SATURDAY, OCT. 15

SALE STARTS Note this is SATURDAY AT 12:00 O'CLOCK

OUR FIFTH ANNUAL CALF SALE. We believe these sales have been the most profitable of the year for purchasers. From each sale have come herd bulls and show cows. Many buyers re-selling their calves have doubled and trebled the price.

THE QUALITY. According to Gene Sundgren, manager, the quality of this particular group is unquestionably the best of the five previous calf sales.

CATALOGS ARE READY — WRITE FOR YOURS TODAY.

FRED CHANDLER
Auctioneer
18 Miles west Salina

CK RANCH
Brookville, Kansas

GENE SUNDGREN
Manager
On Highway 40

**John H. Tatlock
Dispersion**

Sale to be held at the ranch located 52 miles east of Wichita on Highway 96.

Piedmont, Kan.
Monday, Oct. 10

Sale Starts at 11:30 A. M.

225 HEAD — 140 LOTS — Also selling a large amount of baled hay.

For catalog—**J. H. Tatlock, Oil Producer, 111 S. Topeka, Wichita, Kan.**

Auctioneers: Earl Gartin, Jewett Fulkerson, W. H. (Bill) Heldenbrand
Sale Managers: National Auction Co., Ft. Worth, Texas, and Fulkerson Sale Management Service, Liberty, Missouri

**BUY MISSOURI
POLLED SHORTHORNS**

in the Missouri Breeders Sale at the state fair grounds

Sedalia, Mo.—Oct. 24

(Show 9 A. M.—Sale 12:30 P. M.)

25 BULLS—38 FEMALES

16 Consignors Sell in the 7th Annual State Sale

For sale catalog write to
Rollo E. Singleton, Sales Manager, Department of Agriculture Jefferson City, Mo.

This sale sponsored by
The Missouri Polled Shorthorn Breeders' Association
Auctioneer: **J. E. Halsey**

OFFERING BEEF SHORTHORNS

THE LOW THICK KIND
Serviceable age Bulls Heifer Calves and Yearlings

Also Cows with calves at foot. Popular bloodlines. Reds and roans.

MILLS & MILLS
Sylvia, Kansas

O'BRYAN RANCH REGISTERED HEREFORD SALE — MONDAY, OCTOBER 24
COMPLETE HEREFORD DISPERSION and CLUB CALF SALE

75 HEAD—50 LOTS — For catalog address O'Bryan Ranch, Hiattville, Kan., Joseph G. O'Bryan, Owner
Jewett Fulkerson, Auct. This sale managed by Fulkerson Sale Management Service, Liberty, Mo.



W. W. O'BRYAN AND HIS GOOD HERD BULL.

25 outstanding Club Calves, every one of show caliber, all out of purebred Herefords, bred to the top set of calves to be found anywhere.
Sale at the home ranch, 7 1/2 miles west of Hiattville, Kan., on State Highway 39, or 27 miles east of Chanute, Kan., on Highway 39, and 25 miles southwest of Ft. Scott, Kan., on Highway 39.
Also selling 20 Quarter Horses, 10 of these are Mares, well broke for working cattle and top cutting horses. 10 Yearling and 2-year-old Quarter Horse Colts.
Remember our Registered Hampshire Hog Sale, October 20th. A great offering of Hampshires from one of the world's largest herds.

**Dispersing
50 Top Herefords
Wednesday, October 19**



All big type Regulators, by Mathews Regulation 4 and his 2 sons. Extreme tops of herd. Reducing to almost quilting point. 20 big calves, 9 heifers, 11 bulls, 19 cows—3 to 7 year olds. Two herd bull prospects year old past, 8 coming 2-year-old heifers, open, 2 herd bulls 4 and 6 years old. Terms: Time 'til August 1, 1950, without interest. Trying to help returned soldiers who need help. Send for catalog.

S. S. PHILLIPS, Pratt, Kansas

Walnut Valley Reg. Herefords

Bulls and heifers of correct Hereford Type, strong in WHR breeding. Few outstanding herd bull prospects. Sired by O.J.R. Jupiter Star 12th. 5 bred and 10 open heifers.
WAYTE BROS., Winfield, Kansas

**CLAY COUNTY
REG. HEREFORD SALE**

Clay Center, Kansas
(Sale Barn 1:00 P. M.)
Saturday, October 8




46 HEAD—27 Bulls and 19 Females sell off grass with no fitting. Open and bred heifers, and cows (1 to 4 years old). Offering is of good type and the best of breeding. Everything Tb. and Bang's tested.

CONSIGNORS:
RAY McCARTNEY, Clay Center
RAY HANNA, Clay Center
RAYMOND BRETHOUR, Clay Center
LAFE MYERS, Clay Center
ROSS BLAKE, Oak Hill
OLIVER NELSON, Leonardville
LEONARD HAZLETT, Manchester
GLENN LYNE, Miltonvale
HENRY SWENSON, Morganville

For catalog write
LAFE MYERS or RAY McCARTNEY
Auctioneer: Ross Schauls

JOIN THE STAMPEDE TO SHORTHORN'S SENSATIONAL
AMERICAN ROYAL NATIONAL SALE
 Wednesday, October 19 — 12:30 Noon
SHORTHORNS AND POLLED SHORTHORNS
 held in connection with the
1949 American Royal Livestock Show, Kansas City, Mo.



The greatest combination Show and Sale in the breed history... that will demonstrate to the beef producing sections of the country the long strides Shorthorns and Polled Shorthorns have made in modernizing type and beef conformation.


There will be \$27,000 in prize money in all divisions... breeding classes, individual steer classes, carload... the largest amount ever offered anywhere for a combined showing of the Shorthorn breed.

The Sale of 100 head of hand-picked, carefully selected Shorthorns and Polled Shorthorns will be held October 19 at noon, and will represent the best individuals produced by the leading herds of the nation. **40 BULLS**—all outstanding herd sire prospects. **60 FEMALES**—beautifully bred, modern type, all suitable for top herd foundation material. 100 of the breed's best ready for your ownership.

SALE CATALOGS: Catalogs will be available at sale time, but will be mailed only upon written request.
HOTELS: A limited number of hotel rooms have been reserved and may be secured by writing us promptly.
CLINTON K. TOMSON, Secretary

AMERICAN SHORTHORN BREEDERS' ASSOCIATION
 7 Dexter Park Avenue Dept. CF Chicago 9, Illinois
 Donald J. Bowman, fieldman for this publication

For low-set thick, improved Herefords attend the
Elmer Johnson's Production Sale
 Salina, Kansas, Thursday, October 13
 (Salina Sales Pavilion Highway 40, west side of town)



WHR TRUE ONWARD 10TH

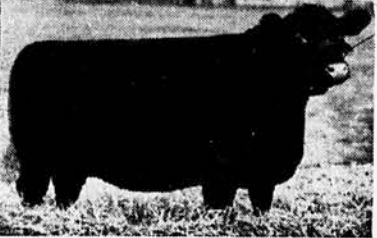
55 LOTS—Offering the natural accumulation of our herd after 14 years of herd improvement. This is our best offering.

24 Bulls—20 of them sired by WHR True Onward 10th, (a great son of True Mold 18th), and a half brother to the WHR True Molder (grand champion of the American Royal 1946). Included in this sale is the good sire, CK Royal Dundy 1st, and two of his sons.

37 Females—Comprising 21 heifers by WHR True Onward 10th, 6 to 12 months old. Very thick, beefy and of high quality. 7 heifers by CK Royal Dundy 1st, and bred to WHR True Onward 10th. Most of them will calve by sale day. 7 Cows with calves at foot from the service of the "10th" later on. 2 Heifers by CK Challenger D 82nd.

For catalog write
ELMER L. JOHNSON, Smolan, Kansas
 Mike Wilson for Kansas Farmer

Polled Shorthorns
 Over 100 head in Herds
 Cherry Hill Hallmark x and Red Coronet 2d x Herd Sires



QUEEN OF HEARTS 2nd X

For Sale: 20 Young Bulls—the choicest in the history of the herd (established 1907.) Also females, special—three head or more. Our greatest reward is our Satisfied Friends of many established herds. Calfood vaccinated. Write for price list.

Location—we are 22 miles west and 6 miles south of Hutchinson, Kan.

J. C. BANBURY & SONS
 Phone 13F2 Plevna, Kansas


7TH ANNUAL SALE
Nebraska Milking Shorthorn Breeders' Association
 Fairbury, Nebraska — Saturday, October 22
 (Fair Grounds)

60 HEAD, selected from Nebraska's leading herds. Correct type and best of breeding.

12 Bulls, serviceable bulls.

48 Females, cows to freshen by sale day and open heifers.

For catalog write
HARRY ZEILINGER, Secy., David City, Nebr.
 Auct.: Burritt Allen Jesse R. Johnson with Kansas Farmer



Cowley County Show Herd
DID IT AGAIN
 Won first at both Topeka Free Fair and Hutchinson State Fair
 E. B. Shawver, grand champion bull — Waite Bros., grand champion heifer
 Ralph Waite, champion heifer in boy's division

Cowley County Third Annual Hereford Sale
 Winfield, Kansas
 Monday, Nov. 7




15 Serviceable Bulls
10 Bulls under one year
15 Bred Heifers
5 Open Heifers

CONSIGNORS:
BLAINE ADAMS, Dexter
KENNETH THARP, Winfield
BOYD WAITE, Winfield
E. B. SHAWVER, Douglass
ALFRED TAYLOR, Oxford
FRANK WORDEN, Burden
KENNETH WAITE, Winfield
CHAS. H. CLOUD, Winfield
CARL RICHARDSON, Winfield
C. P. WILLIAMS, Burden
E. L. WOMACKS, Atlanta
 All of Kansas

For catalog address **CHAS. H. CLOUD, Winfield, Kan.**
 Auctioneer: W. H. "Bill" Heldenbrand
 Fieldmen: Jesse R. Johnson, Kansas Farmer; Bobby Vincent, Ranchman


The Postponed Sale of
ROY DOLL (Dispersal) and J. E. HUGENOT
 of 53 Head of Milking Shorthorns
 Will be held at the Fairgrounds at
Winfield, Kan., Tuesday, October 18, at 1:00 P. M.

24 Classified Cows (14 RM) **9 Bred Heifers** **1 Herd Sire**
13 Open Heifers **7 Bull Calves**

These cattle may be inspected at the Fairgrounds at Winfield on Saturday, Sunday and Monday before the sale.

For catalog write **C. O. HEIDEBRECHT, Sale Manager, Inman, Kansas**
 Auctioneer: Gus Heidebrecht Pedigrees: W. E. Dixon, Joe Hunter

PILOT KNOB MILKING SHORTHORN SEMIDISPERSAL SALE
Wednesday, October 26 — Pratt, Kan.
 At farm 7 miles west of Pratt on U. S. Highway 54
 3 miles north, then half-mile east




40 HEAD
13 Cows, all in milk, classified, milk record cows up to 450 fat.
12 Heifers, 12 to 16 months old, sell open.
Herd Bull—River Park Bladen 2nd.
5 Bulls, 12 to 18 months old.
 Remainder calves.

All cows that sell have been classified "Very Good" or "Excellent."
 Herd butterfat record for the past 3 years average 8,500 lbs. milk and over 300 fat.
 Herd state accredited.

For catalog address **C. C. LEWIS, RFD, Cullison, Kan.**
 Auct.: Art McAnarney Mike Wilson with Kansas Farmer
 See next issue of Kansas Farmer

W. E. MURRAY'S ANGUS DISPERSAL IS OCT. 29
 Sale will be held at Silver Top Farms, BELTON, MISSOURI



70 LOTS SELLING: 9 Bulls—29 Cows—32 Bred and Open Heifers.

We have many of the prominent Aberdeen-Angus families. These families are Miss Burgess, McHenry Barbara, Missouri Barbara, Eric, Blackbird, Evergreen, Queen Mother, Antelope, Lucy, Pride, Blackcap (several strains).

THIS OUTSTANDING SON OF EILEENMERE 500TH SELLS:
 His first calves are very promising. His services on many of the cows. This bull is Barbara's Eileenmere 500th, calved July 20, 1946. He is sired by Eileenmere 500th by Eileenmere 85th. His dam is Barbara McHenry 119th by Burgoyne 5th. He is of the McHenry Barbara family.

For sale catalog write to
W. E. MURRAY, Peculiar, Missouri
 Auctioneer: Roy G. Johnston, Belton, Mo.

Dispersal Sale of
C. G. MILLER'S MILKING SHORTHORNS
Thursday, October 20, at 1 P. M.
 Sale at the farm 2 miles southwest of Arlington, Kan., on Kansas Hwy. 61

30 HEAD

This herd of Milking Shorthorns has been a very good source of income for Mr. Miller, but due to health, it has become necessary to disperse these good cattle. He started this herd 13 years ago with the purchase of one cow and the entire herd carries the blood of this one good cow. This sale offers some very good uddered cows with good production. You should plan to attend this sale.

13 Classified Cows, 8 Open Heifers, and 9 Bulls including the good herd sire Wyncrest Red Duke, by Maid's Duke RM (EX) and out of Red Rose RM.

For catalog write **C. O. HEIDEBRECHT, Sale Manager, Inman, Kan.**
 Auctioneer: Gus Heidebrecht Pedigrees: Joe Hunter

DAIRY CATTLE SALE
 on farm at west edge of
Pretty Prairie, Kan., Thursday, Oct. 6, 1 o'clock
135 HEAD—75 Guernseys, 60 Holsteins
 Fresh Cows, Heifers and Heavy Springers. Also Open Heifers
 Tb. and Bang's tested.

W. W. GRABER, Pretty Prairie, Kan.
 Auctioneers: Boyd Newcom and Davenport

BULLS! BULLS! BULLS!

SELL IN THE Mid-Kansas Shorthorn Breeders Show and Sale

Tuesday, October 25, 1949

Saline County Fairgrounds

Salina, Kansas

Show at 9 A. M. — Sale at 1 P. M.

Don Good, Judge, Kansas State College
Bert Powell, Auctioneer
Mike Wilson with Kansas Farmer



	CONSIGNORS	
	Bulls	Heifers
Selling		
90 HEAD		
35 Top Bulls		
35 Beautiful Females		
25 4-H Club Calves		
Sell at 12:30 P. M.		
	Barbara Bayles, Garrison	1 0
	H. H. Humphrey, Holton	2 1
	Hans Regier, Whitewater	2 2
	Alvin Otte, Great Bend	2 0
	Edd R. Markee & Son, Potwin	2 2
	Richard Tindell, Burlingame	1 0
	Mellrath Bros., Kingman	3 2
	Arthur Nelson, New Cambria	3 2
	Emerson Good, Barnard	3 1
	Tomson Bros., Wakarusa	2 4
	Earl E. Stoffer, Abilene	1 0
	Glenn Gallart, Larned	0 1
	Adolph Dumler, Russell	1 0
	Geo. J. Wetta, Andale	1 1
	Gustafson Bros., Osage City	1 2
	J. H. Bowser, Abilene	2 2
	W. V. Harshman & Son, Clements	2 0
	W. A. Young, Clearwater	1 1
	Mr. & Mrs. Webster G. Olson, Clements	1 0
	Milton Nagely, Abilene	1 0
	Wayne Seim, New Cambria	0 1
	R. M. Collier & Son, Alta Vista	2 4
	Judith Crowther, Salina	1 0
	Neeland Ranch, St. John	0 6
	Martin W. Herrstrom & Son, Tonganoxie	3 1

The best lot of registered Shorthorns ever offered at these reliable sales. Strong herd bulls, bulls for commercial breeder, farmer and rancher, two-year olds, yearlings and a few outstanding bull calves. The females include cows with calves at foot, bred and open heifers. Consigned from the strongest herds in Kansas featuring the most popular bloodlines of the breed. Remember, Shorthorns are best in every weigh, for beef and milk they can't be beat. Think of it, thirty-five bulls and thirty-five females have been entered and will be on hand for your approval and bidding. Here you will find bulls and females that can mean extra profits for your cattle operations in 1949 and for years to come. Every animal is Tb. and Bang's tested. Learn more about this fine offering by writing today for the catalog. Address

MERVIN F. AEGERTER, Sale Manager, Seward, Nebr.

Sponsored by

MID-KANSAS SHORTHORN BREEDERS' ASSOCIATION

President: Arthur Nelson, New Cambria
Vice-President: Milton Nagely, Abilene
Secretary-Treasurer: Grant Seim, New Cambria
John C. Sauerwein, Salina Chamber of Commerce

SALE COMMITTEE

J. H. Bowser, Abilene—Earl Stoffer, Abilene—Carl E. Peterson, Assaria

Attend the big dinner and program on the evening prior to the sale. Everyone invited.



American Mixer 27th, our reserve champion of the 1949 Missouri State Fair and champion of the 1949 Ozark Empire Fair.

American Mixer Lady 33d, first-prize junior yearling heifer at the 1949 Missouri State Fair and Ozark Empire Fair. She sells.

American Triumph 41st, first-prize summer yearling bull at the 1949 Missouri State Fair and Ozark Empire Fair. He sells.

American Triumphs Sell in the First Sale of HEART OF AMERICA HEREFORD FARMS Tuesday, October 18, 1949

Sale at farm in new sales pavilion just 20 miles from American Royal building, located on paved Highway 10 five miles east of Liberty, or nine miles west of Excelsior Springs. Sale at 2 P. M. on Tuesday after completion of Royal judging at about 12:30 P. M. Lunch will be available at the farm. Free transportation will be provided from the Royal building.

Selling 55 Lots—Featuring the blood of WHR Triumph Domino 6th thru the get of a son and three of the grandsons.

15 Bulls—yearling ready for service.

45 Females—all either bred or open heifers. The bred heifers carry the service of American Mixer 27th or Plus Bocado 57th, a show bull and grandson of Domino Plus 2d that produced many tops for Dan Thornton. Open heifers sold with a breeding privilege to any of our bulls. The females include our entire 1948 calf crop with absolutely none of the tops withheld. The offering is sired by our herd sires, American Triumph, Royal Craftsman, Triumph's Dandy, and American Triumph 4th. The last-mentioned is a great breeding son of our American Triumph by WHR Triumph Domino 6th.

For catalog write—

Heart of America Hereford Farms, Liberty, Mo.

Owners: Harry Jenkins and Jewett M. Fulkerson
Aucts.: A. W. Thompson and Hamilton James

Herdsmen: Bill Bertz
Donald J. Bowman with Missouri Ruralist

"Your Best Buy of All" Western Kansas Shorthorn Breeders "Feature Sale" Saturday, October 15, Hays, Kansas (Hays Livestock Sales Pavilion, 1 P. M. CST)

16 TOP BULLS 44 WORTHY FEMALES
5 Really Top 4-H Calf Club Steer Prospects



Featuring high quality Shorthorns, not highly fitted to save YOU, the buyer, plenty of money. The bulls include one outstanding four-year-old proven sire, 12 strong yearlings ready for heavy service and 4 outstanding calf prospects. The females include a great many cows with calves at foot, an exceptionally nice group of bred heifers to calve early next spring, and a set of open heifers ideal for herd replacement.

Coming from the following herds, YOU will recognize that the breeding and quality is the best available. It contains the get and service of bulls that have been champions and top sellers at Chicago, Kansas State and numerous other breeder sales. This group of breeders has gone all out within the past five years to secure the best. The results have been pleasing and they now offer YOU this opportunity to buy from their success. The females in particular have mostly not been highly fitted. They are, however, sired by famous bulls and have calves at foot by famous bulls. YOU will be able to buy them at prices low enough so that their calves can easily pay the bill in one year.

	Bulls	Females
Lawrence Brungardt, Gorham	2	15
R. J. Crockett, Kinsley	1	
F. A. Dietz, Collyer	1	1
Harold Dietz, Wakeeney		2
Henry Dietz, Wakeeney	5	19
Marion K. Meyer, Great Bend	1	
John A. Morgan & Son, Hutchinson	1	
Neeland's Ranch, St. John	1	7
Alvin Otte, Great Bend	1	
I. J. Spitzer, Grigston	3	

For Catalog Write

MERVIN F. AEGERTER, Sale Manager, SEWARD, NEBRASKA

Hays is easily reached. It is on main line railroad service between Denver and Kansas City and located at the Junction of U. S. Highways 40 and 183.

"Attend This Sale on Your Way to the American Royal Show at Kansas City"

Auctioneers: C. D. SWAFFAR and OTTO ROLLEDER
Mike Wilson with Kansas Farmer All Animals Tb. and Bang's Tested

Opportunity Knocks! Buy Royally Bred Herefords at the W. L. COWDEN COMPLETE DISPERSION SALE

Springfield, Mo. — Monday, October 10, 1949
Sale held in tent and starts at 1 P. M. 2 miles east on East Division Street Road. Watch for sale signs. Lunch on grounds.
34 LOTS — 55 HEAD

2 Royally Bred Herd Bulls—
Jupiter Domino 40th 2994829, a son of WHR Jupiter Domino 69th who was sired by the noted Register of Merit sire, Star Domino 6th. The 40th is out of a WHR Triumph Domino 13th dam.
Real Silver Domino 35th, a son of Real Domino 51st and out of a Mischief Mixer dam.
7 Yearling Bulls ready for service. 3 sons of Jupiter Domino 7th; 2 sons of Jupiter Domino 3rd; 2 sons of Real Silver Domino 35th.
24 Cows with 22 calves at side—14 Bull calves, 8 Heifer calves. Many sold separate, and are sired by the 2 herd bulls. All cattle Tb. and Bang's tested.
"Since I have sold all of my farm land it becomes necessary that I completely disperse my entire herd of selected, royally bred registered Herefords."—W. L. Cowden.

Don't Miss This Top Complete Hereford Dispersion — For catalog write
DONALD J. BOWMAN, Sale Manager, Hamilton, Missouri
Auctioneer: Col. Bill Hazel, Springfield, Mo.

Here's Your Opportunity — Attend the West Central Missouri Hereford Assn. FIRST ANNUAL SALE

to be held October 14, 1949
1 P. M.

Clinton, Missouri
at the Clinton Sale Pavilion
at Junction 13 and 35 Highways
45 LOTS — 60 HEAD

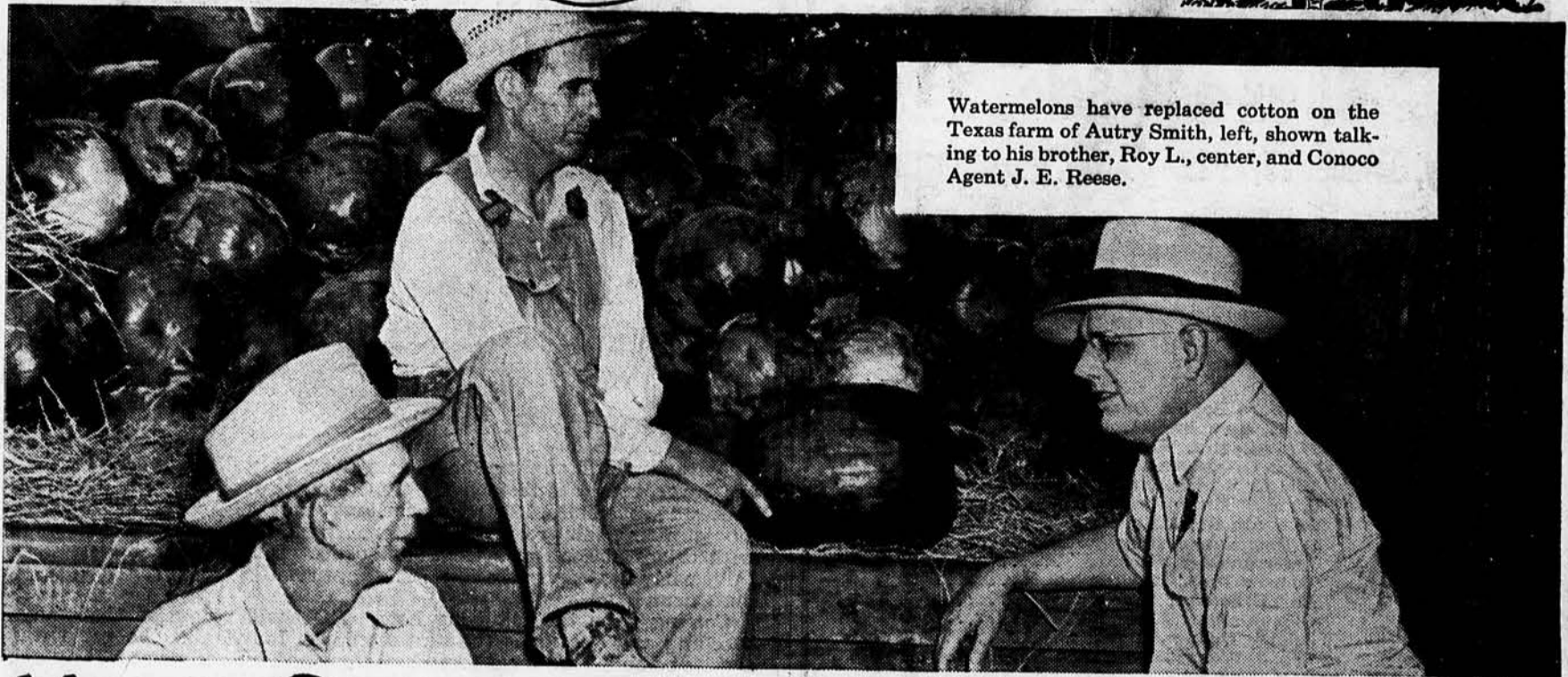
10 Head of Bulls, serviceable age.
15 Cows with calves at side.
10 Bred Heifers
10 Open Heifers

CONSIGNORS
LONGVIEW FARM, Lee's Summit
TOM NEWMAN, Butler
OBERKROM HEREFORD FARM, Clinton
J. L. LONG, Clinton
CARL LAUBENSTEIN, Appleton City
For catalog write
SAM OBERKROM, CLINTON, MO.
or JEWETT FULKERSON, LIBERTY, MO.
Don Bowman for Missouri Ruralist

Auctioneers: Fulkerson and Oberkrom



The Tank Truck



Watermelons have replaced cotton on the Texas farm of Autry Smith, left, shown talking to his brother, Roy L., center, and Conoco Agent J. E. Reese.

Many Crops - ONE Oil

It used to be "one crop country" along El Camino Real in Central Texas. In the fields along that historic highway where DeSoto and LaSalle once wintered, cotton dominated the landscape.

But just as the rumble of stagecoaches and the hoofbeats of the Texas Rangers have given way to modern motors, so farming has changed.

Today, up-to-date farmers like Autry Smith, Nacogdoches, have turned from cotton to diversified and more profitable crops. Now, the country has been taken over by the watermelon—and by dairy cattle and the peas, hay and other feeds necessary for raising them.

But though Mr. Smith varies his crops—he sticks to ONE motor oil. "I've been using Conoco Products since early 1942," he says. "Especially fine is your Conoco Nth Motor Oil. I've found I have less carbon knock and my tractor is more easily started with Conoco Nth. Nth stays cleaner between drains than any oil I have used. Nth oil has reduced my motor repair bills 20 per cent. During 5 years' operation of my tractor on Nth

oil, my total repair bill has been less than \$50."

There are a lot of good things about Conoco Nth Motor Oil, but probably the one thing that has done the most to keep Mr. Smith's repair bill so low is its OIL-PLATING feature. OIL-PLATING is the extra film of lubricant that fastens right to the metal working parts of cars and tractors. OIL-PLATING is an extra shield, protecting your farm engines against damage in spite of the hard work you give your cars and tractors.

So, whether you raise one crop or a dozen, better depend on one oil—Conoco Nth—to keep down those repair bills.

Conoco Nth Does Everything



Here's a farmer who even uses Conoco Nth Motor Oil in his washing machine! Wayne Noblitt, Denton, Montana, likes Conoco Nth so well he depends on it to keep all his machinery going. Mr. Noblitt raises wheat, barley and oats on his 320-acre

ranch and feeds 600 sheep and 40 head of cattle. His equipment includes 2 tractors, a combine, a thresher, 2 plows, 3 cultivators, 2 drills, 2 trucks and the smaller equipment needed for large-scale grain farming. To run all this expensive machinery, he will trust only Conoco Products, and is very enthusiastic about Conoco Nth Motor Oil. "I was sold on Conoco Nth," he says, "when I saw what little wear and how clean the inside of our first tractor motor was after it had worked through 3 full seasons. Since then, Conoco Nth has been used in all our engines, from the washing machine up to the Caterpillar D-6."

Caramel Raisin Pudding



... by Mrs. L. J. McCrumb, Midvale, Idaho

1/2 cup butter (or other shortening)	1/2 cup raisins
1/2 cup sugar	1 1/2 cups flour
1/2 cup milk	1 rounded t. baking powder
	1/2 t. salt

Mix all together and put into greased pan or baking dish.

Sauce
1 cup brown sugar 2 cups cold water
Stir and pour over the above dough, adding small bits of butter. Bake 1/2 hour in moderate oven.

Send your favorite recipes to Mrs. Annie Leo Wheeler, Conoco Cafeteria, Ponca City, Oklahoma. A \$7.50 pair of Wiss Pinking Shears awarded for every recipe published with your name. All recipes become property of Continental Oil Company.

FARM KITCHEN



Helps Adjust Harrow

A grab hook fastened to a draw bar clamped to the plow makes it much easier to adjust the chain for harrowing, especially on side hills or contours, suggests H. J. Dedic, R. 2, Pleasant Dale, Nebr.

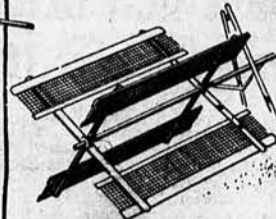
"Nth Consumption Low"



When they play "Dixie" up in Utah, Archie Tobler can stand up and cheer right along with the rest of 'em. For Mr. Tobler lives in another "Dixie"—the one down in Southwestern Utah, where the temperatures are almost as tropical as in the "deep south." On his 200-acre farm near Washington, Utah, Mr. Tobler raises sugar beet seed,

barley, alfalfa and truck crops. And he's a Conoco user straight across the board—Conoco N-Tane Gasoline, Conoco Diesel Fuel, Conoco Nth Motor Oil, Conoco HD Oil, Conoco Transmission Oil and Conoco Pressure Lubricant, Robalube and Racelube greases. "Since I started farming, have used Conoco Products 100 per cent," he says. "Trucked for a good many years and used practically all kinds of oil, but found Conoco Nth to be the best of any oils used. Find that Nth does an excellent job of lubrication, which I feel is due to your OIL-PLATING. Also, oil consumption on all motored equipment is exceptionally low."

Grain Saver



Attach very fine hail screen to the crossarms of your combine reels to get more grain when combining maize, recommends Carl H. Dieck, Whitewater, Kans.

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