

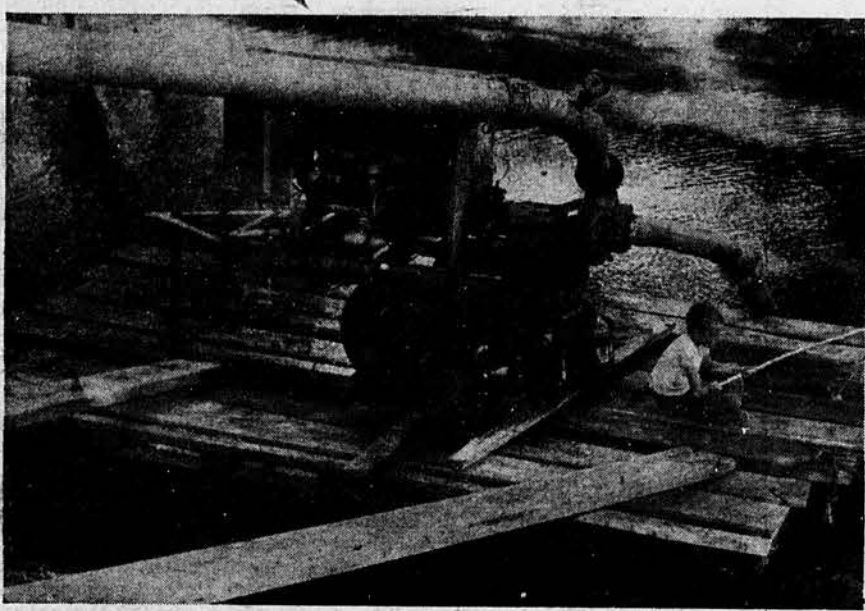
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AUGUST 1, 1953

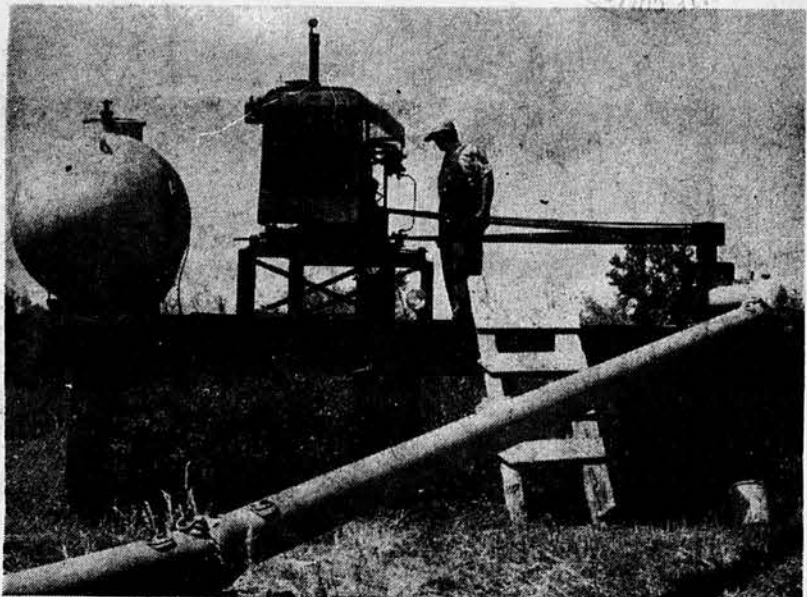
Cap. 2

Upper 6/7

Kansas Farmer



PUTTING PUMPING station on float in river means you don't have to adjust intake pipe with rise and fall of the stream. The fisherman is Bruce Comer, Marshall county.



WHERE WATER is pumped from stream, care must be taken to prevent pumping station from flooding. This one is mounted on platform above flood level.

Irrigation Means Higher Yields

"You can expect 30- to 50-bushel increase in corn if you follow other good practices, too," says Arnold Nehrig, Marshall county

SPRINKLER irrigation is on the march in Kansas, aided greatly by the dry fall of 1952, and dry spring and summer of 1953. Last November, Russell Herpich, a graduate student in agricultural engineering at Kansas State College, made a survey of 86 Kansas counties and found 171 farmers operating sprinkler irrigation systems. "This number has been increased by at least 50 per cent since then," says Mr. Herpich. "I believe 250 or more sprinkler systems were in operation in the same 86 counties during this past summer."

Arnold Nehrig, Marshall county, bought his sprinkler outfit in 1948 after a very careful study of the possibilities. "I traveled 3,000 miles talking to farmers and seeing various types of sprinklers in operation before I bought," he says.

Strangely enough, Mr. Nehrig says a farmer is more likely to "underbuy" than "overbuy" when it comes to sprinkler (Continued on Page 32)



SPRINKLER TYPE irrigation systems are increasing rapidly in Kansas as drouthy conditions make farmers more water conscious.

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- Will College Help Me?.....Page 5
- Don's Letter From Overseas.....Page 37

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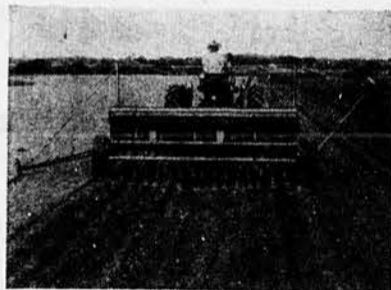
THERE is your proof of a good planting job—at the elevator. For it's when you unload those *extra* bushels, and get a premium price for that *extra* quality of your grain, that you're glad you did that planting job with an accurate and dependable John Deere-Van Brunt Grain Drill.

There's the new "DR" Double-Run Grain Drill, above—an accurate high-speed drill with the new John Deere-Van Brunt double-run feeds—a drill that will plant your seed in just the quantity you want at just the depth you want. Then there's the new "FB-A" Fertilizer-Grain Drill—the ideal drill for the farmer who ordinarily distributes fertilizer as he plants. Or, if you want a plain grain drill equipped with famous John Deere-Van Brunt fluted force-feeds, there is the popular Model "B"—a drill that has long found favor with farmers all over the country.

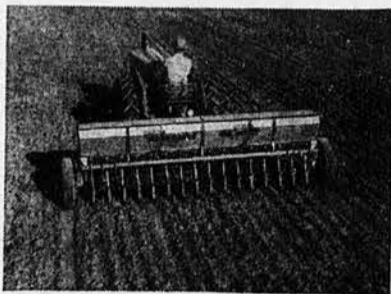
So—take no chances. Talk over your drill needs with your John Deere dealer on your next trip to town. He can show you the way to better planting, bigger yields, and greater profits with a John Deere-Van Brunt.



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Above: The new John Deere-Van Brunt Model "FB-A" Fertilizer-Grain Drill makes a one-trip, high-speed job of planting and fertilizing.



Above: The popular Model "B," equipped with the famous John Deere-Van Brunt adjustable-gate fluted force-feeds.

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Dept. D11

Gentlemen:
Please send me information on the drill checked below:

"DR" Double-Run
 "FB-A" Fertilizer-Grain
 "B" Plain Grain

Name _____
R.R. _____ Box _____
Town _____
State _____

Folks Like Waconda Spring Idea

Would you like to see it designated as a national monument to the Great Plains Indians? Drop a line to KANSAS FARMER giving your opinion

LETTERS are still coming in lauding the efforts of *Kansas Farmer* to get Waconda Spring, in Mitchell county, designated as a national monument to the Great Plains Indians. *Kansas Farmer* first put forth the idea in its June 6 issue. Since then the Topeka Daily Capital has printed two articles and Ellen Batchelor, of Kansas State College Extension staff, devoted one of her morning KSAC radio programs to promoting the idea. The Rooks County Record, Stockton, reprinted the article in full and the Goodland Daily News added its editorial support.

Kansas Farmer is still eager to have you write expressing your opinion on the project. Here are samples taken from letters already received:

"Congratulations to you in promoting a plan to make Waconda Spring a national shrine. My good wishes to all who participate in this worthy undertaking."—Grace Ralston, Topeka.

"You have my hearty support in your sincere offer to smoke a final pipe of peace with the Indians."—Nyle Miller, secretary, Kansas State Historical Society.

"In regard to the write-up about Indians, it is very good. I think there should be more good things said about the Indian. History teaches us the Indian was here when white men came here, therefore if this country did not belong to the Indian, who did it belong to? We are getting *Kansas Farmer* regularly and enjoy reading it very much."—C. W. Imbler, Liberal.

"Your recent article aimed at getting Waconda Spring designated as a national monument has a strong appeal to me. You have suggested a worthwhile project which could be successfully promoted by some state-wide

group such as our council."—C. C. Kilker, manager, Kansas State Chamber of Commerce.

"I think every effort possible should be made to preserve Waconda. We owe it to ourselves and to the vanishing people who gave it the name honoring the Great Spirit. My wife joins me in this wish."—Sol D. Dice, secondary school supervisor, Kansas State Department of Public Instruction.

"I grew up a few miles north of this historic place and am willing to offer my services to do whatever might be done to help further the cause."—Mrs. Fred Muck, Marion.

"Well, maybe some day our family will make the pilgrimage with the Indians to Waconda Spring. Time will tell."—Mrs. M. V. Kesl, Agenda.

"I think your idea of making Waconda Spring a national monument is fine and want to assure you I shall be glad to do what I can to promote the movement. Let me know any way I can be of assistance."—Fred W. Meyer, representative, 85th district, Jewell.

"My husband and I can voice our approval of your fine article. It is a most worthy project and is long overdue to our way of thinking. It will be articles like yours and your interest that will do much toward bringing this project into reality. Best of wishes in your work along this line."—Mr. and Mrs. P. D. Posegate, Plainville.

"More power to you."—Lee Meadows, editor, Goodland Daily News.

"I think your plan to make Waconda Spring a national monument and shrine is a good idea."—Fred Hall, lieutenant governor, Dodge City.

Bert Nittler Tries Various Silage Feeding and Storage Methods

IT MAY TAKE more work to feed out of an upright silo than out of a trench, but you can do a better job of feeding out of an upright, states Bert Nittler of Lake City. Mr. Nittler uses both. He has one of the largest trench silos in Barber county, but finds there is a lot of variation in feeding silage the way it comes from a trench, and more gain when silage from upright is fed.

"You always are going from brown silage on top to green silage along bottom of your trench," he says and it affects the way his cattle eat and gain.

He is not convinced keeping silage over for a period of years is a good idea. "My cattle never do eat as much second-year silage as they will the fresher." He likes to hold over a reserve supply, tho, for short seasons.

Mr. Nittler has been wintering 300 steers, buying in fall and selling in spring. He loads by hand out of trench onto truck. He tries to get 1½ to 1¾ pounds gain per day with 2 pounds protein per head per day. Half a pound of supplement is fed on wheat pasture. Location is ideal for wintering, with valley protected by natural cliffs, stream running thru that is spring-fed to keep it flowing all winter.

Trench silo is largely in solid rock, only 3 feet of dirt on top before rock is hit. It was dug 12 feet deep and used 2 years before Mr. Nittler took it on down to an average depth of 17 feet. Width at top is 18 feet, 14 feet at bottom. Trench is 50 feet long. Mr. Nittler wishes sides were not quite so straight up and down because silage doesn't pack as well. He finds a wheel-type tractor is best for packing silage. He tried dumping spoiled ensilage on land that had been in feed crop 40 years. Calves also ran on that land and spread manure themselves. Result was best feed crop on that land of any raised on the place.

KANSAS FARMER

Continuing Mail & Breeze

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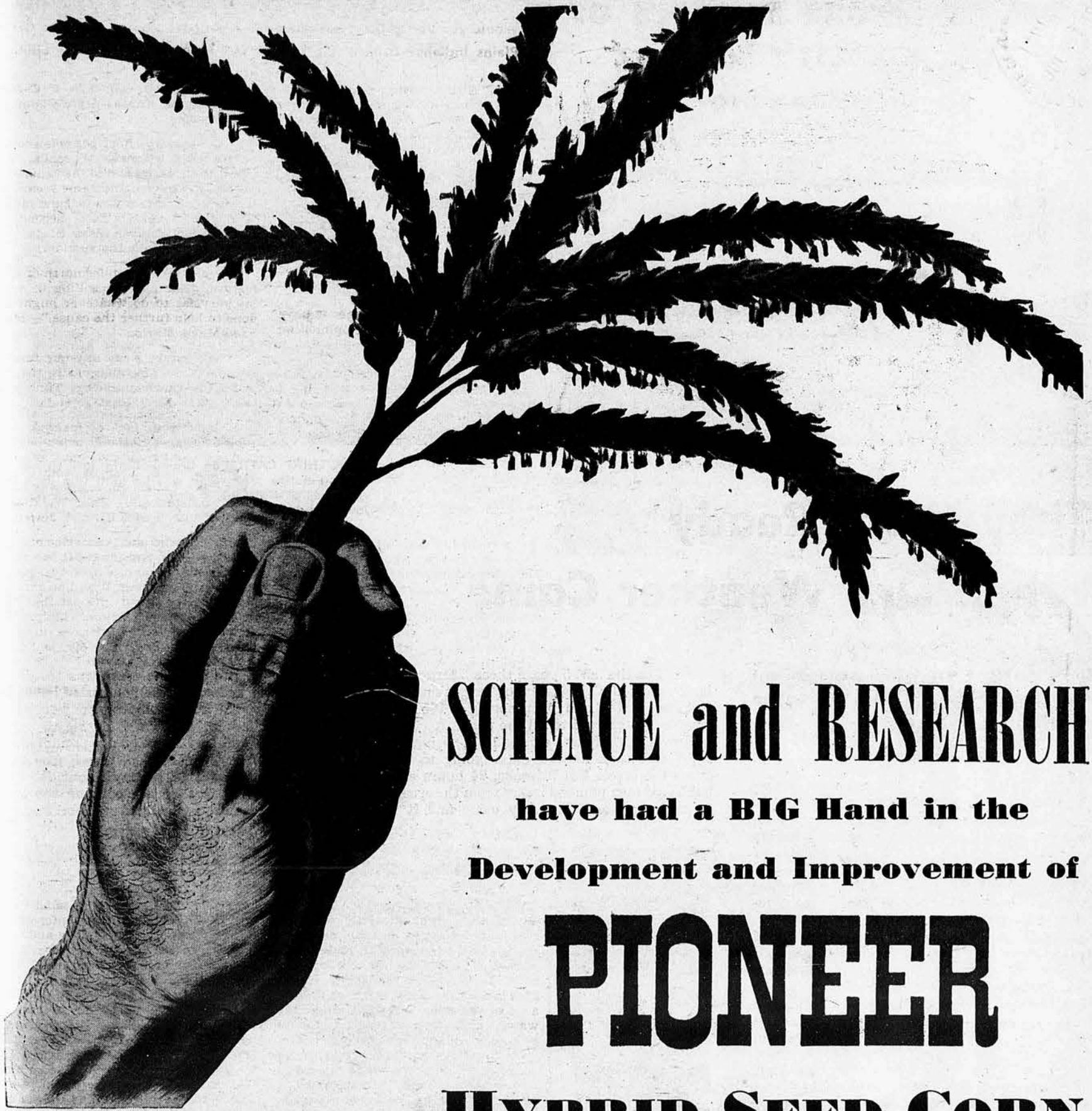
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Grain Market Reports

"Grain Market Reports" is a 56-page bulletin of the Kansas Agricultural Experiment Station, Manhattan, which gives market terms and definitions. As a service to readers, a copy may be ordered thru Farm Service Editor, *Kansas Farmer*, Topeka, Kan. No charge. Ask us to order Bulletin 353.



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BY PUTTING CATTLE on brome-alfalfa last spring and holding native pasture in reserve until late June, this view was possible July 6 on the George Wierenga farm, Jewell county.

They Were Ready When Dry Weather Came

By DICK MANN

Thru foresight and good management these farmers were not caught short when rains failed to arrive

TWO SMITH COUNTY farmers were sitting in a cafe recently discussing the drouth. "The trouble with us," one of them said, "is we've forgotten the 2 things farmers in this area should never forget—the importance of feed and water reserves."

Feed and water reserves spell the difference between "hanging on" or having to sell livestock at distress prices.

There is no discounting the seriousness of dry weather the last 2 years over much of Kansas. Below normal rainfall and the 2 hottest Junes in Kansas history have taken a heavy toll. Many farmers have had no chance at all to protect themselves. But in most counties you can find a farmer here and there who, thru foresight and good planning, has found a way to offset the worst effects of dry weather.

For examples, here are a few cases we found in Smith and Jewell counties, both hard hit by drouth prior to July 6, when the calls were made.

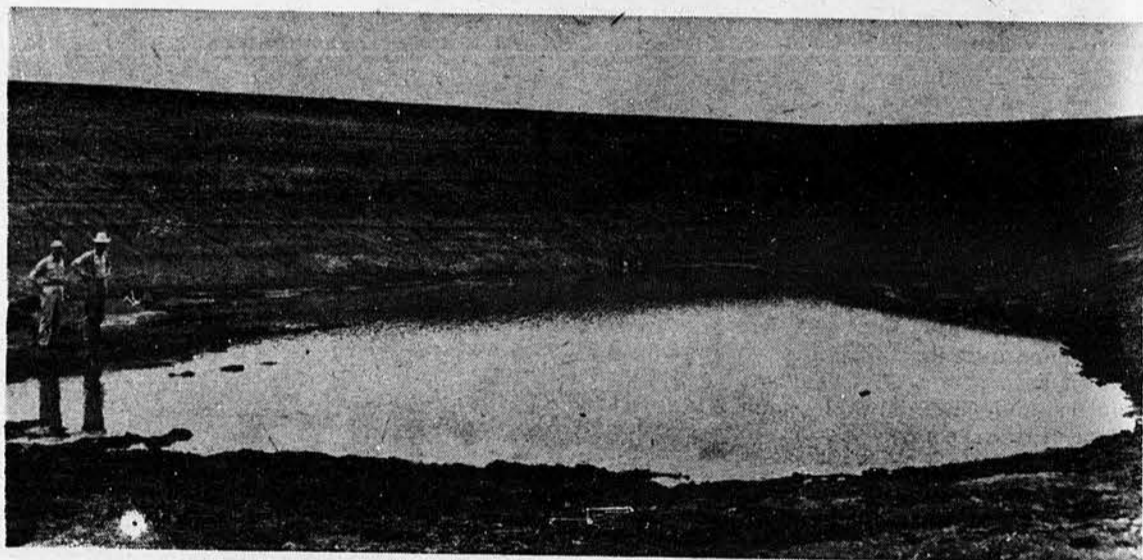
Martin Tanis and Sons, Smith county, have been irrigating from a creek on their farm since 1939. Six years ago they also constructed 2 large ponds of 60 acre feet each at the base of 2 drainage areas in a pasture that adjoins the

creek. For the last 5 years these 2 large ponds have supplied a great deal of irrigation water. But during 1952 and in the spring of 1953 there wasn't enough rain to fill the ponds.

However, there was a period last spring when there was considerable water going to waste down the creek. For 2 weeks, 24 hours a day, the Tanis men pumped water from the creek up to their ponds. When July came and it was

time to irrigate corn the creek was too dry to supply any water, but the ponds still held a 30-day supply. The irrigation program went ahead on schedule.

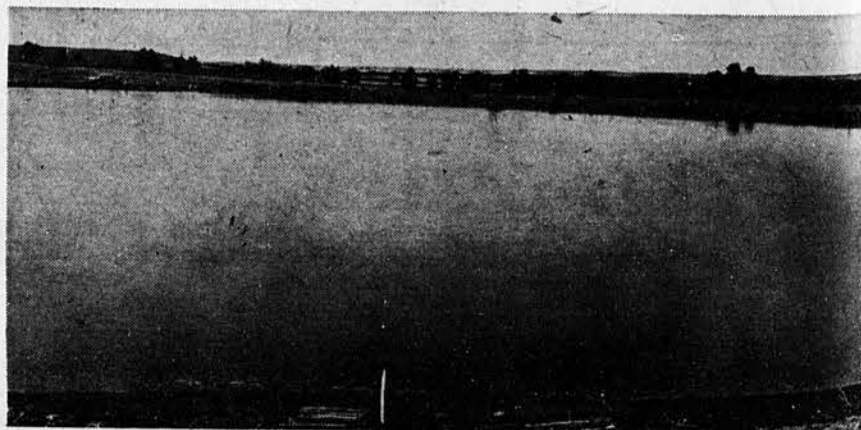
Mr. Tanis started an extensive pond building program 7 or 8 years ago, mostly for stock water, and has this to say about it: "I've thought sometimes I was spending too much money on ponds, [Continued on Page 36]"



DEEP PONDS like this one just completed on Debey Brothers farm, Jewell county, are needed to offset high evaporation and insure stock water when drouth hits.



THIRTY-NINE HEAD of cattle found good grazing early in July on 24 acres of sand lovegrass established in 1951 on the Walter Grauerholz farm, Smith county.



HERE IS ONE of two 60 acre foot ponds that supplied 30 days of irrigation water in July on the Martin Tanis and Sons farm, Smith county.

News
and
Comment

Kansas Farmer

Blight Hit Corn

IF YOU FOUND brown, dried-out streaks on your corn leaves along about mid-July, it likely was caused by Bacterial Leaf Blight. Claude King, Kansas State College Extension Plant Pathologist, brought a cornstalk to the *Kansas Farmer* office about that time to show us what can sneak up on an unsuspecting corn crop.

King said many growers were reporting this disease which was causing brown, dead streaks on corn leaves. It has shown up in greater amounts only the last 6 years. And in only one of those years did it do severe damage. This heavy damage was in a field north of Manhattan and in several fields in Wabaunsee county. That year the bacteria were active in the whorl where the young leaves grew out, and rotting extended down deep into the stalk. In addition it made streaks on the leaves. In other fields that same year, and in the other 5 years, only damage seen was to extended leaves. In most years bacteria that cause the disease are active only a few days, then there is no further damage. In some cases the leaf damage reduces yields.

There is no practical control, Mr. King said. But here is where research can show its worth. While this disease apparently isn't too serious at present, it could get that way. Or some other disease might be the culprit. Corn scientists right now are digging into this Bacterial Leaf Blight disease, hoping to outwit it by developing resistance in hybrids. If that isn't the answer they will find it in some other way. Important point is these scientists are on the job to tackle any similar problem that develops on Kansas farms. We are exceedingly fortunate to have Kansas State College on the job protecting our crops and livestock.

Need Poultry Students

EVERY YEAR, United States land-grant colleges graduate slightly more than 100 students majoring in poultry. All have positions awaiting them, with hundreds more jobs unfilled. Industrial leaders report every year they could use 500 of these poultry-minded and trained men. Opportunities in the field of poultry research are unlimited—plenty of work to do and not enough men to do it. Farm boys who like poultry, and want to get in on the educational phase of it, have a bright future in store.

Kansas State College's poultry husbandry department head, L. F. Payne, has come up with an idea to help solve the problem. Give scholarships to high-caliber, interested students who are in need of financial support, he writes in the official organ of the Kansas Poultry Institute. "A scholarship of \$200 would pay all matriculation fees both semesters here at

Kansas State for residents of Kansas and allow a small sum for purchase of books. These scholarships would be in the form of honorariums for good work done in high school, and for a statement of good intentions to continue work in Poultry Husbandry."

Kansas has many business organizations and individuals who have attained prominence from poultry investments here, and who want capable leadership in this field continued. Professor Payne says, "One or more scholarships of \$200 each established at Kansas State College . . . would be worthy a memorial to the giver or to someone he might designate."

If you are interested in boosting a Kansas farm boy who needs help in entering the field of poultry research, teaching or Extension, write to Professor Payne. The need for more men is great. The time to boost farm youth is now.

Will College Help?

HOW ABOUT going to college? Do you think it will help me? What can I expect to get out of it? Will it benefit me on the farm or only if I get a job in town? Can we afford it?

You will find the answers to these questions pretty much your own to decide. But you owe it to yourself to investigate fully the possibilities, and talk them over with people in your community who have attended college, and others who are now attending. There are ways, too, of financing your going.

One farm boy is helping himself thru college with money from his hog project. He was a small boy when he became owner of a pig. In the years since then he has built up a purebred herd that has put him thru one year of college and is ready to start on the second.

A farm girl sold a registered Angus calf, added money she earned testing soils in the county laboratory, and headed for her first year of college. She also qualified for a substantial scholarship.

Some students are fortunate enough to get jobs on the campus that help pay expenses. Everything off campus from baby-sitting to working at night in a mill have brought in money for college needs. We know of one student who had a laundry route, worked on a paper mill week ends. In fact you find students doing virtually any kind of work imaginable, helping themselves thru school. Fortunate is the farm boy or girl who can build a livestock or crops project into school money, perhaps make it the foundation for a start in farming later.

Will college help you? No question about it if you are going to be a county agent, home demonstration agent, teacher, doctor, industrial engineer or enter any other of many fields you can name. But will it help you when you go back to the farm? Certainly. College will teach you many important things about improving livestock and crops. You will be able to get greater returns for your investment of time and money than if you lacked the college background. In addition to that, one college graduate now farming quite successfully for himself said, "It isn't only what you learn in college that helps but it's knowing how to learn, where to go for the answers when information is needed."

You will find successful farmers all around you who didn't go to college. They got their education in the "college of hard knocks." One such graduate said, "Tell the young folks to go to college, make the most of it. It is the shortest route to the best possible experience and information I know."



"Maybe the Babylonian king, Nebuchadnezzar, built the famous hanging gardens because his neighbors kept chickens!"

"When asked to use the word beans in a sentence correctly, little Jimmy wrote, 'We are all human beans'."

"It's too late—when you want to read the handwriting on the wall and your back is up to it!"

"Walking all over people's toes is no way to climb the ladder of success."

"I like to see a man who is proud of the place in which he lives, and who lives in such a way as to make his place proud of him"—Abraham Lincoln.

"When a man's a Christian, even his dog knows it."

"Vacation is no idle time for the pocket-book even if it does need a rest."

"We'll get thru these trying times O. K. if we just don't quit trying."

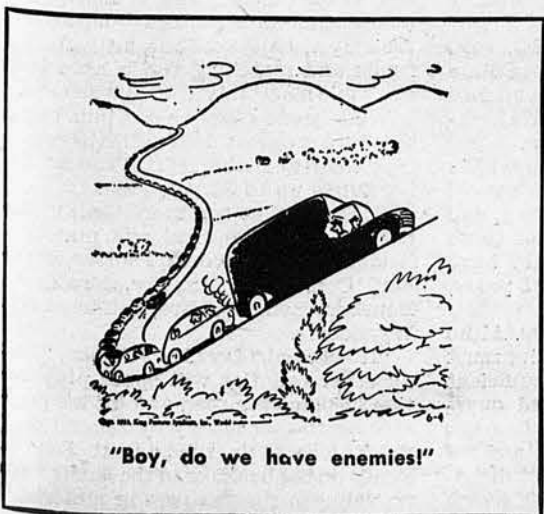
Help for "Bossy"

THERE is a new way to save "Bossy" from "hardware" sickness. Or in other words, the American Society of Agricultural Engineers has a new method of detecting and removing "tramp iron" from hay and feed. Still in the experimental stage, it is an electronic metal detector which can be used where chopped hay or silage are carried thru a blower pipe into a barn. When bits of iron are carried thru the pipe an inspecting device produces a signal, causing a gate to open for rejection of the undesirable metal.

The engineers report tramp iron in hay and feed causes considerable loss to dairymen every year. And that one to 6-inch pieces of baling wire now cause about 90 per cent of the cases of hardware sickness. Nails and fence wire also make trouble. "Careless operation of wire-tie balers may result in short ends being deposited in bales."

Twin Lambs Preferred

INDIVIDUAL twin lambs average about 29 per cent lighter at birth than single lambs, according to the American Veterinary Medical Association. At weaning time the twins still average 17 per cent lighter, but the 2 lambs represent about 75 per cent more weight than the single lamb. A twin is preferred in choosing ewes for breeding because the twinning characteristics sometimes are inherited. Has anyone made a comparison of feed costs per pound of gain between twin lambs and single lambs?

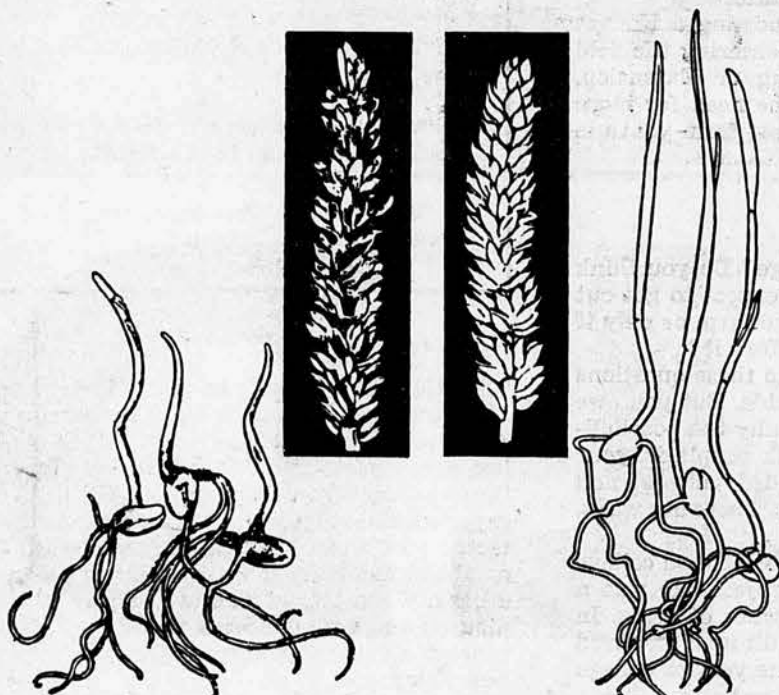


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- Dyes seed a distinctive reddish tint as seed is treated
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Need Dairy Herd Association Help Bourbon County Producers Find



EARL REYNOLDS, Bourbon county dairyman, is learning some interesting information about his herd since joining the new Bourbon County Dairy Herd Improvement Association.

RENEWED interest in Dairy Herd Improvement Association possibilities is being shown by dairymen in Bourbon county this summer. Bourbon county dairymen were in an association with Allen county, but it dissolved in February of 1952.

Now a new Bourbon county DHIA has been started and is making fine headway. For instance, there were only 6 Bourbon county herds in the old Bourbon-Allen association. By June of this year there were 12 herds in the new Bourbon association and another 5 herds on an owner-sample basis, although the association was organized only a month earlier. "We hope to have a full association of 26 members sometime this fall," says Kenneth Dale Carson, Bourbon county Extension agent.

Earl Reynolds, who is milking 48 cows now but usually milks 50 to 60, is a new but enthusiastic DHIA member. "I have been milking cows for years and this is the first time I have tested," he says. "I am finding what I thought were some of my better cows are not testing out. You can weigh the milk a cow gives but you can't tell anything about what's in that milk until you test. Since we are paid on a butterfat basis it is to our interest to know

how much butterfat our cows are actually producing."

Mr. Reynolds plans to cull out his low test cows and is convinced testing is a great thing to insure quality as well as quantity in milk production.

Arvon Graham, who had been a student at Kansas State College, was tester for the Bourbon county association until his accidental death in June. Norbert Schaefer, state roving tester, came to Bourbon county and helped him get started. There were 350 cows on test in the association in June with 6 of the 12 herds being registered.

"Bourbon county ranks 4th in Kansas in number of milk cows," says Mr. Carson, "and I firmly believe when dairymen in the county fully realize the value of DHIA we will have more than one full association in the county."

One former dairyman in the county who didn't want to be identified, puts it this way: "Some time ago I dispersed quite a large herd of dairy cows. When I saw farmers paying big prices for those cows without knowing a thing about their real production I couldn't help but feel it was mighty poor business. If I ever go into dairying again I'll never buy a cow that doesn't have a record for her production."

Several Counties Lose Road Money, Reports State Highway Engineer

SEVEN KANSAS counties lost \$49,760 on July 1 due to failure to prepare plans and contract enough secondary road projects, reports Walter Johnson, engineer of secondary roads for the State Highway Commission.

Counties and amounts lost were: Marshall, \$23,530; Douglas, \$7,494; Chase, \$5,085; Pottawatomie, \$2,280; Ness, \$1,820; Saline, \$1,668; Finney \$1,448; and Woodson, \$1,435.

Money lost by these counties, says Mr. Johnson, was not lost to the state as a whole. These funds will be matched and used by the state on the state highways in the secondary system.

Failure to contract projects within some counties has deprived residents of those counties this federal money, and has denied them the benefits of those road improvements that could have been made during the last 2 or 3 years, Mr. Johnson explains.

Here is how it works, he says. Although federal funds allotted to counties must be matched 50-50 by them, sufficient matching money is distributed quarterly from the fifth-cent gasoline tax passed by the 1949 legislature and renewed in 1951 and 1953. Annual distribution to counties is \$3,500,000, which

is more than enough to match the federal allotments.

Although all counties receive federal funds and sufficient gas tax funds from the state to match them annually, many counties fail to complete plans to use them in time to get the full amount.

"A large number of counties will again face the necessity of contracting a large volume of work in order to meet the July 1, 1954, deadline, although federal funds and matching funds have been available since July 1, 1951," he says.

While some counties continue to lag the more progressive counties have contracted all available federal and matching funds up to July 1, 1953.

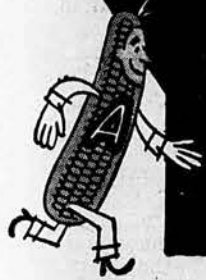
Counties that are more than up-to-date in use of federal and matching funds are: Leavenworth, Thomas, Sheridan, Comanche, Harvey, Franklin, Bourbon, Reno, Seward, Jefferson and Wyandotte.

"It is hoped," says Mr. Johnson, "that all other counties will speed preparation of plans for road and bridge projects on the secondary system so they won't lose their funds next July 1. Funds on the books or in the banks have no value to the tax-paying motorist."

EXTRA



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THESE KANSAS FARMERS GOT EXTRA YIELD



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Wm. Weseloh
Neosho Falls, Kansas



"I have planted Genuine Pfister Hybrids and think they are hard to beat. My Genuine Pfister Hybrids averaged 93 bushels per acre by measure. It holds its ears good and picks cleaner than any corn we had."

Lawrence W. Matthias
Robinson, Kansas



"In checking my yield against leading hybrids side-by-side in field tests in 1952, the nearest any of them came to Genuine Pfister Hybrids was ten bushels to the acre. This extra yield sure counts. It means several more dollars in my pocket. I have used Genuine Pfister Hybrids for six years and it has always been my best corn."

Harlan F. Cleaver
La Harpe, Kansas



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1 NEW LOW PRICES

So low it is hard to believe. GLOBE'S Sales and Service Users prices are so low that, according to a late Cost Comparison made in one area, with 9 cow pipeline installations a GLOBE Sales and Service User Buyer Saves and Keeps in his pocket as MUCH as \$48.00 over one of the lowest priced machines on the market and, think of it, as much as \$166.50 over one of the highest priced machines on the market with which GLOBE compares in Workmanship, Quality of Materials, Never Varying Pulsation and Good Milking Results. GLOBE lets you Put In Your Pocket its savings on selling cost by selling direct to you.

2 NEW LOW DOWN PAYMENTS EASY TERMS ON BALANCE

Our experience, over the years past, on Time Payment Sales of GLOBE MILKERS, has been so satisfactory with deferred payments met so promptly that, THINK OF IT, with a small low down payment of \$19.50 or of \$25.50, we will now ship you either the Single Unit Aluminum Pail, or the Single Unit Stainless Steel Pail NEW IMPROVED GLOBE 1-2-3-4 RHYTHM MILKER. Easy terms on balance. Every family who milks can no longer afford to milk without a GLOBE MILKER. GLOBE, too, is favored by many, many farm wives because it is so easy to operate and to clean. They can buy a GLOBE MILKER out of their household money and never miss it. They buy the Milker — they just Plug In and Start Milking and enjoy the Milking Benefits of the GLOBE MILKER.

3 BONDED WARRANTY OF "BETTER MILKING"

GLOBE quality has been so proved during the past years that GLOBE gladly gives each purchaser a Warranty of "Better Milking." Yes, GLOBE agrees to Cash the Warranty furnished every Milker Buyer if "Better Milking" is not secured. GLOBE HAS EVERYTHING WANTED IN A MILKER. It's a complete unit . . . motor, pulsator and pump built into a compact head that mounts on the pail; its positive pulsation never varies; its rhythm gives a gently milking action to teat one, moves quickly to teat two, on to teat three, to teat four and back to teat one, etc., until the cow is dry; it operates perfectly regardless of weather; because it's a complete unit — You Just Plug It In and Milk. EASY TO USE . . . RELIABLE . . . 1-2-3-4 RHYTHM MILKING ACTION . . . POSITIVE PULSATION . . . EASY TO CLEAN . . . ALL WEATHER DEPENDABILITY . . . PRECISION CONSTRUCTION . . . FINGERTIP CONTROL.

4 WE BELIEVE IT IS NOW TRUE

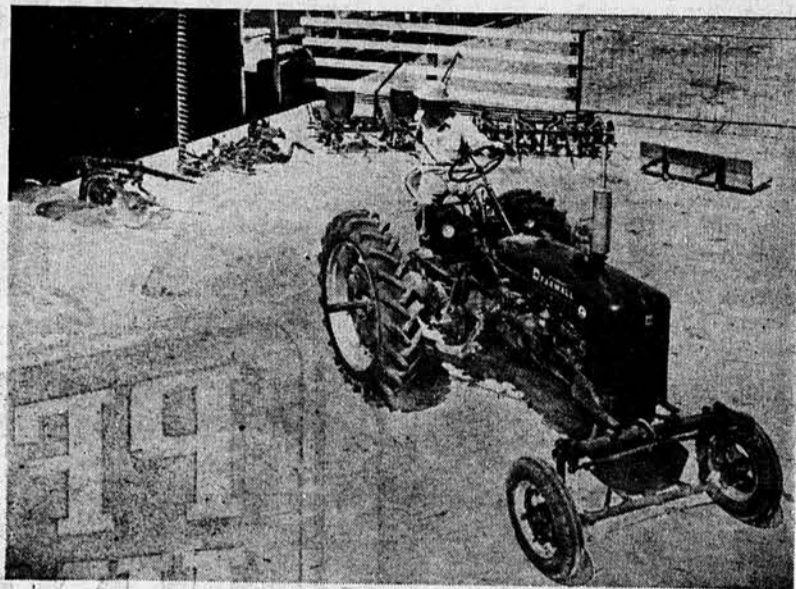
No family can longer afford to milk without a GLOBE MILKER. Agricultural Authorities agree that now is the time for every farmer to work toward a steady cash income — to keep his land in a high state of fertility and production — and to market some of his crops through Good Dairy Cows, as a Family-Size dairy operation is a safe, steady and secure Profit Maker.

Write today for full information about GLOBE'S Exclusive, Superior Features; about the satisfaction of thousands of users; about GLOBE'S low, attractive prices; and, now, about GLOBE'S Wonderful New Low Down Payment with Easy Terms to follow. You are under no obligation to get the facts; you make up your mind on the facts in the privacy of your own home; there will be no salesman calling upon you. Why not Join the thousands of GLOBE MILKER USERS and start now to Save, Make Money and to enjoy GLOBE'S Guaranteed "Better Milking."



GLOBE MILKER COMPANY "THE BEST MILKER"
 East 1st and Court Des Moines, Iowa

Farmall Fast-Hitch is New System of Hitching and Controlling Implements



FIVE OF THE 23 Fast-Hitch implements available for the Farmall Super C tractor, with new Farmall Fast-Hitch: 2-furrow moldboard plow, mower, cotton and corn planter, tandem disk harrow and platform carrier.

ANNOUNCEMENT is made of the new Farmall Fast-Hitch for the Farmall Super C Tractor, by International Harvester Company, Chicago. The company claims it is the easiest, quickest way to hitch implements ever developed. Also, most important power farming advancement in agriculture since row-crop farming was mechanized by the Farmall tractor.

To hitch an implement, tractor driver just backs tractor to implement. Coupling is automatic. It is all done from tractor seat in seconds, completely eliminates lifting and jockeying.

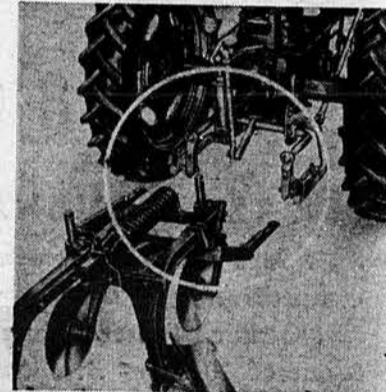
Farmall Fast-Hitch consists primarily of a yoke, with a socket at each end, suspended under the Super C. The flared hitch sockets with locking latches receive a pair of coupling beams rigidly attached to each implement. Tapered shape of coupling beams plus big contact area of sockets with beams assure rigid connection.

With new Fast-Hitch, many different field and chore jobs can be done quickly during the workday. Hydraulic power is used to align sockets on hitch yoke to match height or tilt of coupling beams on implement. To detach implement, operator simply lowers implement to ground, lifts 2 latches, drives away without leaving tractor seat.

Also introduced is a new and revolutionary system of hydraulically controlling implements. A double-acting rear-mounted cylinder and control valve is used. Fast-Hitch also is hydraulically controlled by connections to "Touch-Control" power arms. Front of hitch assembly is attached to right

Touch-Control power arm and is operated by right Touch-Control lever to raise and lower draft point. Rear end of hitch is attached to rear-mounted Fast-Hitch cylinder, is operated by a lever to lift and lower implements and slip-on drawbar. Left side of hitch is connected to inner left Touch-Control power arm, is operated by left Touch-Control lever to tilt and level implements.

Front end of the Fast-Hitch yoke, connected to Touch-Control, is the draft point for all F-H implements, as well as for trailing equipment. Working depth of moldboard, disk and harrow plows can be changed instantly, on-the-go, simply by hydraulically raising or lowering draft point.



FAST-HITCH is a simple "line-up, back-up, click and go" procedure, without leaving tractor seat. To unhitch, just lift a latch in each socket and drive away.

Healthier Folks in Meade County Goal of Educational Workshop

If you wish more information on this important subject, drop a post card or letter to Editor, Kansas Farmer, Topeka, Kan.

FOLKS ARE going to be a lot healthier and happier in Meade county in years to come, thanks to hard work by its community leaders, the determined spirit of the county's school superintendent, and the inspiration of State Health Education workshops.

Wartime demand for skilled medical personnel soon removed Meade county's public school nurse. With no replacements available, county funds that had been allocated for nursing soon were put to more immediate needs.

But as children went longer without physical checkups, school officials noticed a number were going thru school handicapped by speech and other correctable difficulties that would mean so

much to the child if diagnosed and corrected in the fairly easy formative years.

To Ola Granger, county superintendent of schools, the answer appeared to lie in adult education. From her experience at health education workshops, held by the State Board of Health each year at Kansas University, Miss Granger felt if health problems could be explained to parents so they would recognize them and take steps toward corrective treatment, the future for

(Continued on Page 9)

Thank You

We enjoy the Kansas Farmer a lot.—Mrs. Howard A. Hawkins, Rt. 2, Elk Co.

meade county and its citizens could be a lot brighter.

Miss Granger called together leaders of various organizations in the county, asked their support of a county health workshop, patterned after the state idea. Local club representatives by attending the workshop, studying and discussing local health problems with health experts, would be able to return to their communities with an education program for every parent.

The first county workshop brought in experts from all over this part of the country. "Our theme was co-operation, prevention our watchword, and healthful living our goal," Miss Granger recalled of this first Meade workshop, also first of its kind in the state on a local level.

Those who attended were intensely interested, but the workshop idea was something new and getting health education out to the parents was slow. Miss Granger still had faith in the workshop idea tho, and gradually, interest in and demand for further health education spread thru the county.

The next year, "Health education and family and community," was the county workshop theme and many parents, as well as organization representatives attended. Again experts in various fields of public health, child care, speech correction, sanitation, nutrition, education, family relations and others, were called in May Hare, education co-ordinator of the State Board of Health, lending assistance.

By 1951, the first really active Meade County Health Council was organized, with 14 groups represented. The fourth annual workshop, held in January this year, featured as moderator an Illinois educator, with a panel including a psychiatrist, psychologist, parents, teacher, physician, minister and press and movie representatives. Topics were expanded this year to include cancer, venereal diseases. Membership of the council is being enlarged and every home in the county is to be surveyed thru personal contact to discover what health education needs of the county are, health problems people are interested in knowing more about, and from this, an even more expanded health program will be worked out.

"By expanding this interest and understanding of health problems in the county, parents also will be more eager to support funds for such needs as clinics and home care instruction," Miss Granger pointed out.

Similar health workshops are being established in other counties in the state and interest is spreading rapidly. So far, there are 12 workshops on a county basis with 6 requests for help in setting up more, now in the hands of the State Board of Health.

Grow More Alfalfa

Kansas needs more alfalfa acreages. Altho alfalfa has highest acre value of any feed crop produced in the state, Kansas doesn't grow enough for its own beef and dairy numbers.

Luther Willoughby and E. A. Cleavinger, Kansas State College agronomists, say there is big demand in other states for Kansas alfalfa hay and seed. Dehydration plants are other large outlets for alfalfa. Combined demands would make 1,500,000 acres of alfalfa hay profitable in Ksnsas, the men say in a new circular on alfalfa.



"There are times when I wish I wasn't big for my age!"

DANNEN

41% CATTLE PELLETS

E. C. CROFOOT
of Strong City, Kansas
reports

"WE GET ECONOMICAL GAINS ON OUR CATTLE WITH THE DANNEN FEEDING PROGRAM"

"We've fed a large tonnage of Dannen 41% Cattle Pellets. We find Dannen Cattle Feeds are very palatable and are of good quality. These feeds give economical gains. The cattle have a nice finish when ready for market.

"We're happy to recommend Dannen Cattle Feeds to other feeders in this area. We feel certain they will do a good job in their feeding program just as they have for us. We want to compliment Dannen Mills on being able to manufacture these high quality feeds."

Dannen Cattle Feeds do give profitable results. Ormel Martin, Smith Center, Kansas, fed out a bunch of cattle on the Dannen Feeding Program. They gained 2.72 lbs. per day for a 180-day period. And Martin's cattle topped the market with firm, even fleshing.

You, too, can get fast, profitable results with Dannen Hunkets, Dannen 41% Cattle Pellets, Steer Producer "A" and Dannen Creep Ration.



Get TOP GAIN at low feed cost with DANNEN CATTLE FEED

DANNEN MILLS, INC. ST. JOSEPH, MO. RED OAK, IOWA



THAT SOIL buys my clothes too... pays for my house... sends my kids to school. My farm's a good provider.

Funny part is, there was a time when this land didn't do too well by me. I'd sweat and slave through a full season, then wind up with a skimpy yield. I've got to admit it was my own fault. The crops I harvested and sold drained plant foods from the soil, and I wasn't putting them back. Every year my farm got poorer and my crops thinner. Even perfect weather didn't help much. I finally found out what was the matter.

My County Agent said I had to fatten that land with fertilizer. I picked Bem Brand because it was a complete fertilizer... contained nitrogen, phosphorus and potash plus important secondary minerals. That's the "bonus" my dealer means when he calls Bem "the bonus brand".

Bem is the bonus brand, all right. My money-makin' farm proves it. I wouldn't plant anything... from a row of radishes to 80 acres of corn... without Bem Brand fertilizer.



THURSTON CHEMICAL COMPANY

TEST YOUR SOIL... YOUR COUNTY AGENT CAN TELL YOU WHAT GRADE OF BEM BRAND IT NEEDS

LISTEN TO- "LIVESTOCK MARKET REPORT" with BOB RILEY 12:30 PM MWF ON KNBC-KFRM 960 & 550 ON YOUR DIAL

"FARM COMMENTARY" with MERRILL LANGFITT 6:30 AM T, Th, S ON KMA 960 ON YOUR DIAL

"WEATHER SUMMARY" ON KOAM AT 7:45 AM MWF

FREE! FERTILIZER HANDBOOK WRITE: FARM SERVICE DEPT. THURSTON CHEMICAL CO. JOPLIN, MO.

Big Yields of Quality Crops Come From Wise Use of Fertilizer

By MALCOLM H. McVICKAR, Chief Agronomist
The National Fertilizer Association

WE KNOW it takes large quantities of plant food to raise big yields of quality crops. We know it's big yields that put dollars in our pockets—dollars that meet tax bills, pay farm mortgages, buy new tractors and cars, put electric stoves and refrigerators in the kitchens and send sons and daughters to college. We know if the soil is not yielding up enough plant food to produce big yields, the deficit must be supplied by commercial fertilizer or manure or profits will dwindle.

On several occasions the U. S. Department of Agriculture has credited commercial fertilizers with at least 25 per cent of our total crop production.

Starting Off

High points in the history of the fertilizer industry in America are worth noting. It had a modest beginning in Baltimore, Maryland, in 1850. Today its more than 1,100 plants employ 32,000 persons and produce goods valued at more than half a billion dollars annually.

In early days fertilizers consisted largely of guanos, manures and organic wastes. Even as late as 1900, natural organic materials—largely seed meals, dried blood, meat meal, tankage, ground leather, hoof and horn meal, and hair and wool wastes—made up a great portion of our fertilizer, especially fertilizer nitrogen.

Perhaps the greatest development in nitrogen fertilizer came when man learned how to make synthetic nitrogen from the air. Today this is our principal source of this major plant food.

In the beginning superphosphate, our chief source of phosphoric acid, was manufactured by mixing phosphate rock with acid in pits or iron kettles—a crude process indeed. Today more than 50 per cent of the world's superphosphate comes from the United States. Last year our American farmers used the equivalent of 11,000,000 tons of 20 per cent superphosphate.

In 1850, the fertilizer industry's year of birth, the only sources of potash were wood ashes and organic wastes, such as tobacco stems and wool scraps. Discovery of potash salts at Stassfurt, Germany, in 1856 provided the first commercial source of potash in quantity. But we were dependent on foreign supplies long after the first shipment came to this country in 1861. In 1910, when foreign contracts were canceled, the extent of our dependence on Germany was emphasized, and during World War I importation of potash from abroad ceased altogether.

An intensive search by government agencies and private industry led to establishment of our great domestic potash industry. In 1951, more than 1,337,300 tons of locally-produced potash were used on American farms.

Ten Years of Advance

What does use of these fertilizers mean to American agriculture?

In 1952, Kansas farmers used 261,071 tons of commercial fertilizer. The same year Missouri farmers applied 465,319 tons. Just 12 years ago, in 1941, total fertilizer consumption in Kansas was only 22,385 tons and in Missouri only 96,600 tons were used.

One might ask whether the amazing increase—872 per cent in Kansas and 382 per cent in Missouri—are justified. There's no doubt about it. The need is obvious. Each year approximately 234,000 tons of nitrogen, 91,600 tons of phosphoric acid and 134,300 tons of potash are removed from Kansas farms in the form of crops harvested. Contrast these figures with the amounts returned in 1951 thru use of fertilizer—14,800 tons of nitrogen, 46,000 tons of phosphoric acid and only 2,400 tons of potash.

Here are comparable figures for Mis-



Malcolm H. McVickar

souri. Removed thru harvested crops: 179,000 tons of nitrogen, 58,100 tons of phosphoric acid and 93,000 tons of potash. Amounts returned to the soil as commercial fertilizer in 1951 amounted to about 29,500 tons of nitrogen, 114,300 tons of phosphoric acid and 38,100 tons of potash.

Profits From Fertilizer

We'll all agree, I am sure, that each year will see more and more fertilizer going on Kansas and Missouri farms. For farmers are increasingly aware fertilizer use increases profits. Wherever you go the story is the same—fertilizers pay and pay well. One year an investment of \$1 in fertilizer returned \$6.50 in additional wheat on 2 fertility test plots in Reno county, Kansas. What's more, the same thing happened even tho the crop suffered from

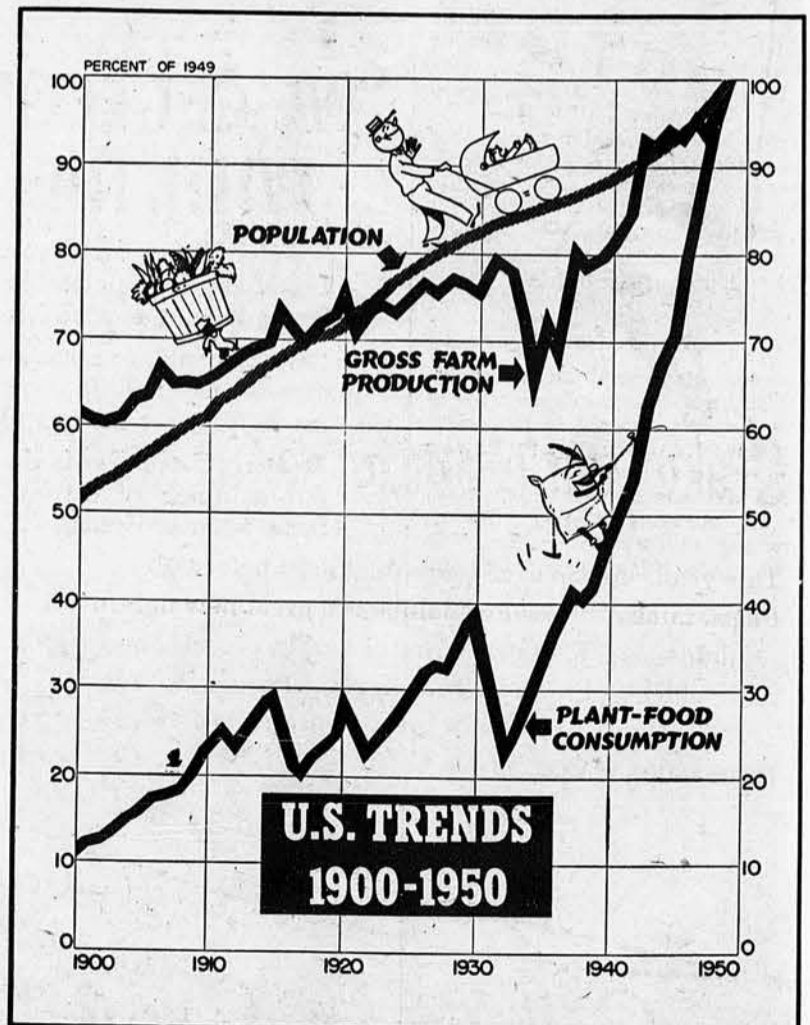
dry weather until extremely late in the season. Under such conditions the yield of wheat was pushed up on the Clinton Trostle farm, near Nickerson, from 22.3 to 40.5 bushels per acre. All it took to do the job was \$5.34 worth of fertilizer. This small investment returned \$35.10 in additional wheat—a return of \$6.57 for each dollar spent for fertilizer.

On the Wilbur McGonigle farm in the same area where the wheat was preceded by alfalfa, an application of 80 pounds of 45 per cent superphosphate stepped the yield up by 9.6 bushels. Where no fertilizer was applied the yield was 39.7 bushels per acre, but this small application of phosphate jumped it to 49.3 bushels per acre. Fertilizer cost amounted to only \$2.88 an acre compared with an increase of \$18.72 for the additional wheat—still a worth-while return of \$6.50 for each dollar invested in fertilizer.

Look also at what happened in Missouri. In a series of tests involving every major soil type in the state, a good fertilization program raised the average corn yield from 53 bushels where no fertilizer was used, to 93.3 bushels per acre. Average fertilization amounted to 74 pounds of nitrogen, 75 pounds of phosphoric acid and 38 pounds of potash. Prof. Arnold W. Klemme, who was in charge of the work, has this to say. "Fields used in these studies were above average used for corn in Missouri. Yet full soil treatments gave an increase of 40.5 bushels per acre. Cost of the full treatment was about \$20 per acre. Only about one-half of the phosphate, 38 pounds, and three-fifths of the potash, 23 pounds, were removed in the corn crop. On fertilized fields there were 37 pounds more phosphate and 15 pounds more potash returned than were removed. At farm fertilizer prices the phosphate would be worth \$3.33 and the potash \$1.05 or a total residual value of \$15.62 for 40.5 bushels of corn."

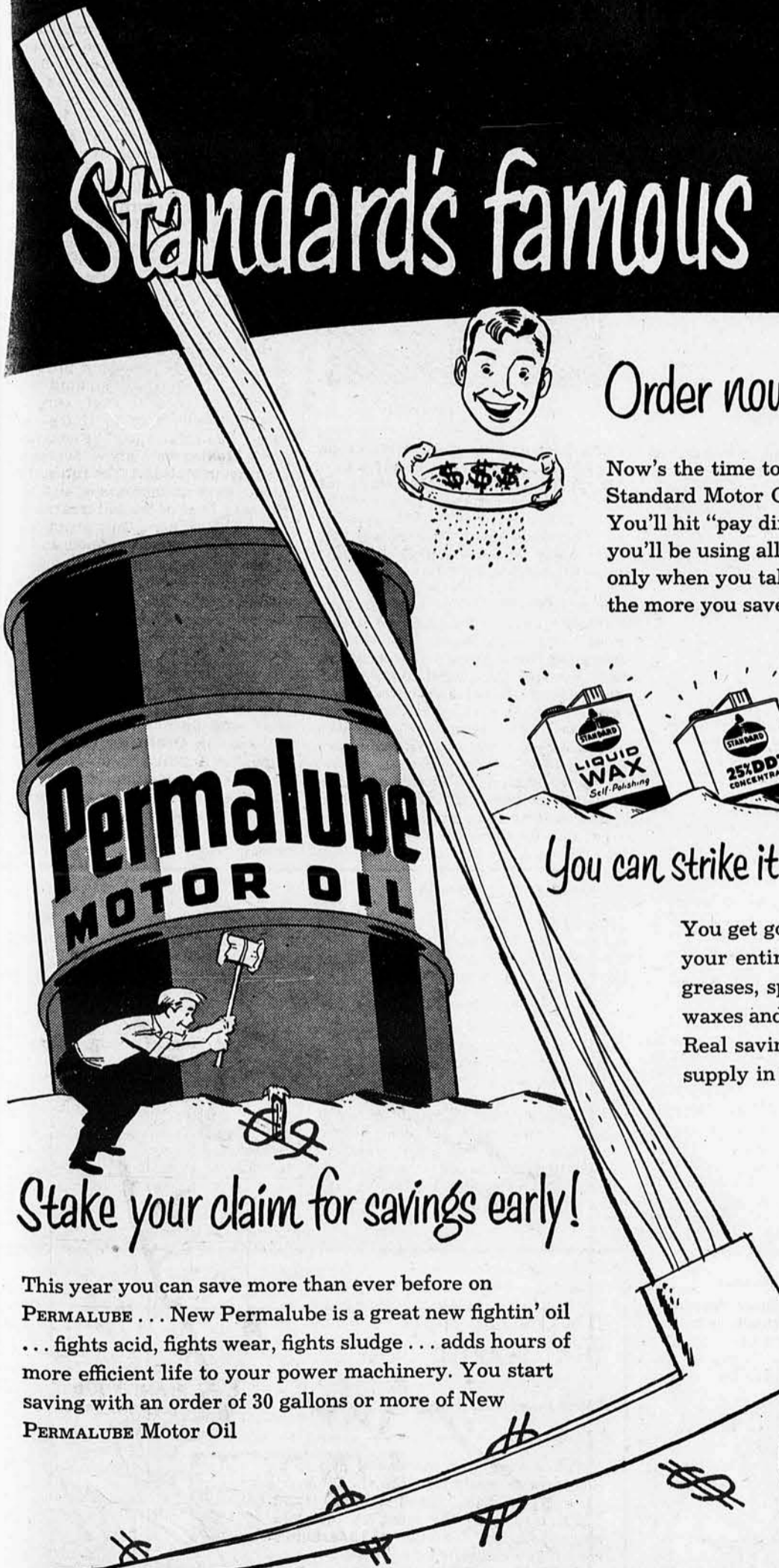
If one figures corn at \$1.50 per bushel, the return for each dollar invested in fertilizer is approximately 4 for 1, a splendid investment, indeed. But there is more reason for growing

(Continued on Page 12)



THIS CHART SHOWS how use of fertilizer, increase in population and farm production all march upward together. There is little danger of our people going hungry in future years as long as fertilizer is available and is used according to soil tests.

Standard's famous Farm Deal!



Order now and hit "Pay Dirt"!

Now's the time to place your advance order for Standard Motor Oils and other farm and home needs. You'll hit "pay dirt" with the savings on the supplies you'll be using all next year. You pay nothing down . . . only when you take delivery. The more you order, the more you save! *Shop early and save!*



You can strike it rich in savings!

You get good discounts that apply to your entire order for motor oils, greases, sprays, insecticides, household waxes and other needs for farm and home. Real savings! Include a year's supply in your order.

Shop early and save!

Stake your claim for savings early!

This year you can save more than ever before on PERMALUBE . . . New Permalube is a great new fightin' oil . . . fights acid, fights wear, fights sludge . . . adds hours of more efficient life to your power machinery. You start saving with an order of 30 gallons or more of New PERMALUBE Motor Oil



Call your Standard Oil Man today!

SURE

for fast, steady growth?
 for strong, healthy stalks?
 for full, uniform stand?
 for dark green leaves?
 for wide, deep roots?
 for proper pollination?
 for big, quality yield?
 for more cash return?

KNOW

then you'll know that
UNITED-HAGIE
 is the corn for
 you to grow

Look around and compare... prove for yourself that UNITED-HAGIE'S exclusive Kernel-Koating and exclusive Planter-Plate Grading give you top performance satisfaction from planting to harvest. Ask your neighbor who grows UNITED-HAGIE,

The vitality bred into UNITED-HAGIE Hybrids produces full, uniform stands of strong and healthy, deep-rooted, dark green plants. Bigger yields of highest-quality corn are yours when you grow UNITED-HAGIE.

Compare now... and you'll want to plant UNITED-HAGIE next spring for the best, most profitable corn year you've ever had.

The UNITED-HAGIE After-Harvest Payment Plan Makes It Easy To Buy The Best.

Ask your local UNITED-HAGIE representative for your FREE copy of

THE UNITED-HAGIE FARMERS' GUIDE

It contains all information about the UNITED-HAGIE Hybrids specifically bred, grown, and processed for the biggest yields in your state... or write

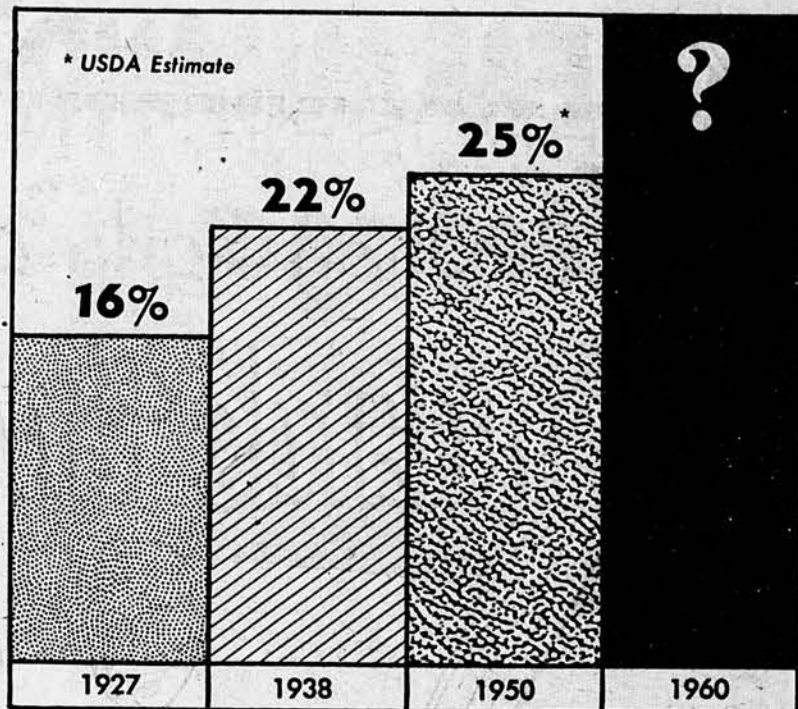
UNITED HYBRID GROWERS ASSOCIATION
 General Offices • Des Moines 9, Iowa



Every Farmer Should Plant Some UNITED-HAGIE!

Big Yields From Fertilizer

(Continued from Page 10)



THIS CHART SHOWS the percentage of crop production credited to use of fertilizer. Note how it has increased from 1927 to 1950. In the years ahead more of our food will come from fertilized crops.

large yields than profits alone. Scientists at the Missouri Agricultural Experiment Station have found by growing big crops of corn the land is actually improved. They say: "There is much experimental evidence, which shows high acre yields of corn, 100 bushels or more per acre, will return more residues to the soil than legume crops turned back. For example, in our studies in 1951, a 120-bushel corn crop left 8,800 pounds of tops and leaves on the land. An 80-bushel corn crop left 5,600 pounds, and a 40-bushel corn crop about 4,000 pounds. It would take a full year's growth of sweet clover in its second year to equal the 8,800 pounds of organic residues put into the soil by the 120-bushel corn crop. Of course, the full second year's growth would prevent the growth of a grain crop that year. Yes, we can definitely maintain or increase organic matter with high acre yields of corn if we use chemical nitrogen to activate the chemical processes."

Opportunities Ahead

Every experiment station in this Nation has information which if put in practice would double our average acre yields. We make progress over the years but we have the know-how to do much better in the years ahead. Crop yields today are 45 per cent higher than they were 30 years ago. One person on the farm produces enough for himself and 14 others, compared with the early days of our country when it

took 9 people to produce enough for 10, or even 50 years back when one person could supply himself and only 7 others. Because of improvement in technology, corn yields have been boosted 50 per cent since 1935 and potato yields have shot up 100 per cent within last 15 years.

Science has merely opened the door to higher yields. The possibilities that lie ahead are tremendous. In fact, we must step up our acre yields. Every day our population is increased by some 7,400. This means a lot more mouths must be feed—more than 2 million a year. By 1975 there will be 38 million more people at our dinner tables. This increase in population will be equal to the present population of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, Pennsylvania, Maryland and Delaware. At our present yields per acre, we would have to put in cultivation additional land equal to the present cropland acreage of Wisconsin, Michigan, Ohio, Indiana and Illinois. There's just one drawback. We simply don't have that much additional land to put under the plow. Production per acre must be stepped up.

To increase yields we must use more fertilizer, and, of course, follow other good practices. The farmer of tomorrow will use fertilizer in such amounts as to make the present rates look small. In addition, fertilizer will be more concentrated and easier to handle than that on the market today.

I WONDER HOW THAT STARTED . . .

"Mad as a March Hare"

This saying was mentioned in English literature as early as 1386, in Chaucer's "The Freres Tale." John Skelton (1460-1529) also used the term, as did John Heywood in his "Proverbs" of 1546. Shakespeare also associated madness with hares. In 1535, Thomas More used the saying.

Since March is the breeding season for hares, and their antics often are most unusual, this saying is believed to be based on that. Their dancing and leaping gave the illusion of madness.

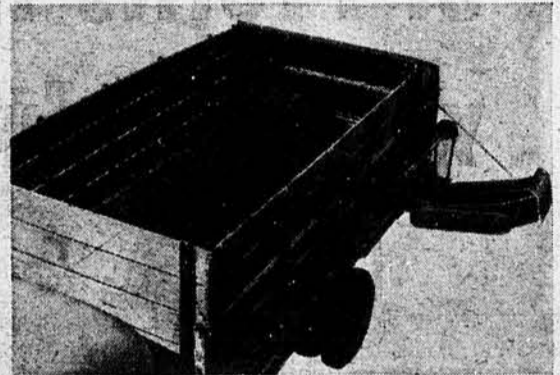
(EDITOR'S NOTE: What's your favorite saying? Send it in, we'll try to find its origin, and tell you about it in this box.—R. H. G.)



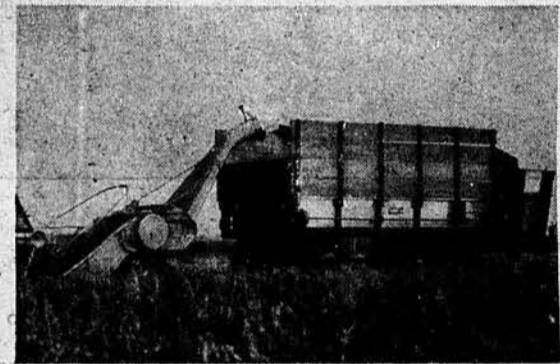
The FARMHAND "Power-Box" FEEDER cuts feeding costs as much as 50 percent!



ONE MAN FEEDS A HERD—Catt's feeding is easier, more profitable with the Farmhand 6-ton "Power-Box" and Feeder attachment. Feed is mixed and delivered into bunks automatically as you drive along. You save on time and labor costs. Every animal gets a balanced ration . . . the thorough mixing helps control founder. The "Power-Box" mounts on truck, trailer, or wagon, for front or rear discharge. It is four machines in one—Feeder, Spreader, Forage Unit, All-Purpose Box.



UNMIXED FEED AND ROUGHAGE are loaded in layers. PTO-operated conveyor moves load into Feeder mixing chamber, where revolving beaters mix it uniformly. Mixed ration is delivered to bunks by cross-conveyor at 145 bu. per minute. Optional elevator adjusts to bunk height up to 47 inches.



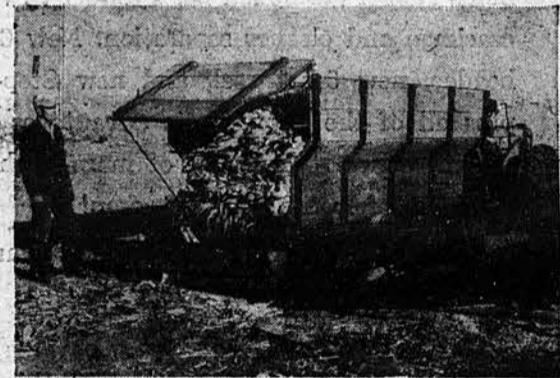
GREEN FEED TOO! Bunk-feeding chopped green grass or legumes increases milk yield—boosts beef production 200% per acre over conventional pasturing methods. Feeder trails chopper, unloads automatically into feed bunks as you drive along. The 3-beater Feeder has 4 to 5-ton transport capacity.



NEW 4-TON "POWER-BOX" FEEDER—Designed for small and medium beef, dairy, sheep, hog, poultry operations. Two beaters and auger cross-conveyor completely mix and mechanically feed up to 90 bu. per minute. Conveyor folds up for easy transport.

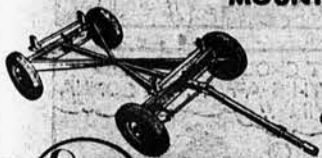


4-TON PTO-SPREADER—Remove Feeder attachment, add the rugged Spreader attachment. Hauls 4-ton payloads, spreads a 7 to 9 ft. swath. Box is narrow enough to be driven through barns, low enough for easy loading. No ratchets, operates from PTO.



ALL-PURPOSE BOX—Automatic unloading from PTO for fast, easy handling of grain, ear corn, other bulk materials. Add sideboards to increase capacity for forage or silage. Operator can start or stop unloading instantly with the handy rear clutch control.

MOUNTINGS FOR 6-TON POWER-BOX



90° Wagon



Single Axle Trailer



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FIRST IN FARM MATERIALS-HANDLING

FREE Illustrated Booklets!

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A Division of SUPERIOR SEPARATOR COMPANY

get a WIDER CUT of Profits from your Sorghums



Wide-Flow harvesting means extra profit!

With your own Model 66 ALL-CROP Harvester you can harvest your crops with greater ease and efficiency.

The new 6-foot header easily takes two WIDE rows of sorghums or a 6-foot swath of grain or seed crops.

The crop travels in a *Wide-Flow* stream to the famous rubber-cushioned bar cylinder . . . with minimum crackage and cleaner separation. New 6-foot hydraulic header, new 6-bat reel, and new Step-Up strawrack, plus all of the many basic advantages of ALL-CROP design, assure the saving of more bushels. You get a wider cut of profits from your crop!

And with all these crop-saving advantages, you get matchless economy . . . *low purchase price . . . low operating costs!*

Be the master of your harvest this year . . . and every year . . . with your own ALL-CROP Harvester. See it at your Allis-Chalmers dealer's.

NEW MODEL 66 SIX-FOOT

ALL-CROP Harvester



ALL-CROP is an Allis-Chalmers trademark.

No other harvester has done so much for so many!

Thoughts TO LIVE BY

"CONQUERING?"

HOW DO WE REACT to "the slings and arrows of outrageous fortune?" What is our response to life? There are at least three choices.

It is easy to be a victim of one's circumstances. Failure, however, does not always mean cowardice or sloth. Sometimes defeat is beyond control of the individual or group. Korea is a good illustration. When Japan assumed a protectorate over the hermit kingdom, the desires of the Korean people were not considered nor did America give ear to her pleas. Korea was an innocent victim. At Yalta, Roosevelt and Stalin divided Korea at the 38th Parallel for purposes of post-war occupation. The Koreans were not present at the conference. Again they were innocent victims. But when President Syngman Rhee, like Abraham Lincoln in our history, stood for the unification and liberation of Korea he tried to change the status of his country from victim to victor.

But oftentimes, defeat is of our own choosing. In the New Testament, we read about Demas who was a companion of the Apostle Paul. For a while he shared the quest and the hardships of this aggressive leader. But as he looked to the right and left, his glance fell upon men who were sinking their roots, amassing a fortune and enjoying the warmth of a family circle. The temptation was too much for Demas. He forsook the Apostle "having loved this present world." Demas was a quitter, a failure. Today, parents may name their children after Paul, but no one would choose the name of Demas for his child.

Demas does not stand alone. The temptation to compromise our principles and desert our first love peppers men of faith all along life's way. We know too well that one response to life is surrender.

A second is victory minus. Were we not conquerors of Germany on these terms? We tried and executed her war criminals. According to the Morgenthau Plan, we put an end to her heavy industry and tried to make of Germany a pasture land. Now we have her around our neck.

This same situation prevails on a personal level. A minister and a layman once took issue on a certain matter. The minister eventually won his point, but he lost his man. He was a conqueror minus.

The poet Henley who suffered greatly boasted that he was master of his fate and captain of his soul. But Dr. George Buttrick comments that he died by his own hands. He was a victor minus.

The third response is suggested by the Apostle Paul. Over the worst life can bring, he says, we can be "more than conquerors thru Him that loved us." (Romans 8:37)

God loves a margin. His very nature is generous. Seed planted in good soil may yield a hundred fold. This characteristic manifests itself repeatedly in the Bible. "Shall He not much more clothe you, O ye of little faith?" "How much more shall your Father who is in heaven give good things to them that ask Him?" He enables people to be more than conquerors.

Helen Keller responding to the love transmitted by Ann Sullivan not only overcame the handicaps of blindness, deafness, and muteness, but she also became a blessing to many other people. She was more than a conqueror.

When the Apostle Paul was near the end of his career, he said, "I can do all things thru Him that strengthens me." He knew how to be more than a conqueror. Those who will live in the love of God can achieve the same response to life.

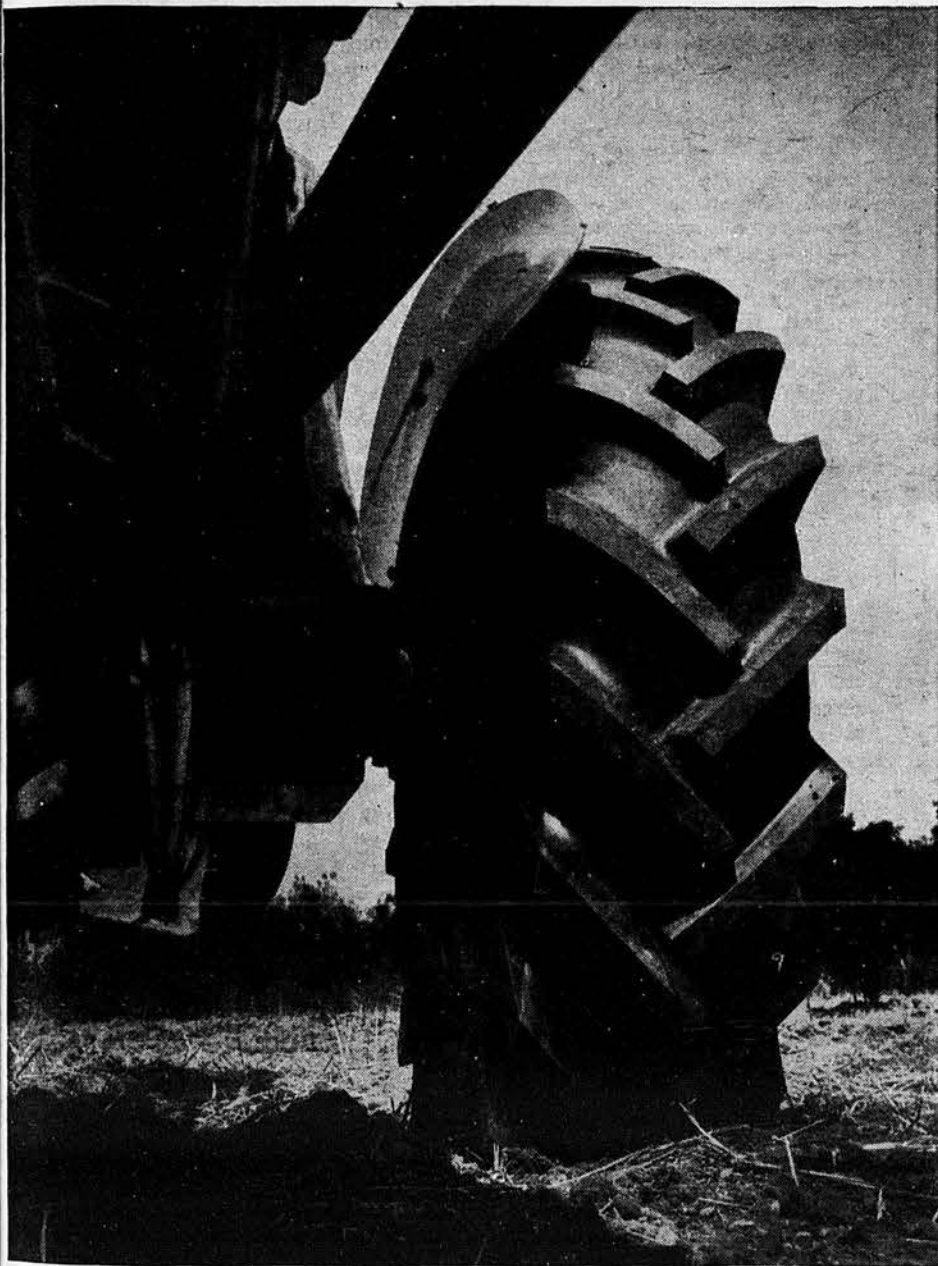
—Larry Schwarz

GRANDMA By Charles Kuhn



B.F. Goodrich

gives you more tractor tire for your money in the new Power-Grip



BIGGER CLEATS—BIGGER SHOULDERS on this new B. F. Goodrich Power-Grip tire. Those big cleats are curved to prevent bending. They're broad at the base to give extra rigidity.



MORE RUBBER—MORE FOR YOUR MONEY. That's what farmers like about the BFG Power-Grip tire. The bigger area on the face of the cleat means more pulling power. And it's a self-cleaning tread.

Bigger cleats—bigger shoulders—bigger all around

It's the tire that comes on new tractors

HERE'S the tire that looks bigger because it is bigger. And it will do a great job for you in any type of farming.

The new B. F. Goodrich Power-Grip tire has bigger cleats and bigger shoulders. The knife-action cleats and king-size shoulders give deep penetration. And once the cleats are in the ground, there's a bigger cleat face area to press against the soil—to hold and cut down on slippage. You get maximum drawbar-pull. When working heavy implements on wet ground or slick cover crops, you can still keep to your work schedule with these powerful tires.

Measure the big, broad tread of the Power-Grip tire. You'll find that no leading make of tire is wider than Power-Grip. This means that the tire has a larger footprint, gives greater flotation. Count the cleats on leading makes. You'll find that time after time, the BFG tire has more cleats than other makes. More cleats to give a better bite.

The bigger Power-Grip shoulders give you longer wear off or on the pavement. They also add traction, provide a firm grip in reverse as well as forward. You work more land in less time because these square-cut shoulders defy slippage.

Why not replace your worn tires with the tires that come on new tractors? You can

see America's newest tractor tire at your B. F. Goodrich retailer's store. These tires sell at standard prices. Look for retailer's address under Tires in the Yellow Pages of your phone book. Or send coupon.



The B. F. Goodrich Co.
Department F-212,
Akron 18, Ohio

Please send me free information on:
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 Truck tires
 "Easy Steer" front tires
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Town _____
State _____

"Ceresan" Made This Difference



Thin stand from untreated seed.



Thick stand from identical seed treated with "Ceresan."

More farmers make more profits by planting seed treated with "Ceresan" because year after year . . .

"Ceresan" Helps Grain Yield More

You can smell the difference! "Ceresan" seed disinfectant gives every kernel a protective coat that kills disease spores on the seed. In addition, "Ceresan" slowly releases a disease-killing vapor that spreads throughout bag or bin. The distinctive smell of "Ceresan" on seed tells you that "Ceresan" is at work disinfecting your seed for bigger yields.

You can see the difference! Good weather or bad, "Ceresan" guards every kernel you plant against seed rot, and protects the young sprouts from seedling blight. That's why you'll see thicker, stronger stands that promise top yield.

You will harvest the difference! With "Ceresan", it is not uncommon to get up to 7 extra bushels per acre of clean grain. In bad years, it may save an entire crop. And you get cleaner grain, too! "Ceresan" assures exceptional control of stinking smut of wheat; stripe and brown and covered smut of barley. Rye and oats also grow thicker and yield better when treated with "Ceresan".

Ask your seed treater to use

Ceresan®

Seed Disinfectant and Protectant

REG. U. S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING
... THROUGH CHEMISTRY

Grass and Legumes grow thicker and stronger when you treat the seed with Arasan®—remember "Ceresan" for small grains, "Arasan" for grass and legumes.

On all chemicals always follow directions for application. Where warning or caution statements on use of the product are given, read them carefully.

Raising Rabbits Can Be Profitable

By OTIS O. McINTOSH



KEEPING RABBITS in an out-of-the-way corner of a farm building will supply plenty of meat as a variety for the farm meal table.

IT SOUNDS STARTLING that 5 female rabbits can produce as much delightfully edible meat ready for cooking as can a beef steer. Best of all, rabbit raising can be conducted in the corner of any barnyard. Rabbit care is simple and can be made to fit between chores.

A good doe of one of the fast-growing commercial breeds can produce 130 pounds of meat per year! Such a bred doe can be purchased for \$5 to \$10. Gestation period is 30 days. Number of young a nursing doe can handle generally is 8.

Housing rabbits is not too big a problem. Hutches are simple to build. It pays to construct a good hutch that protects rabbits from bad weather and gives enough room for growth and exercise. A good-size hutch should be 2½ feet wide, 4 feet long and 20 inches high. If hutch remains outdoors it should have solid back and ends, with a wire front. For easy cleaning, a floor

of ½-inch galvanized 16-gauge hardware cloth, and with a droppings board, fills the need.

About 5 days before a doe is due to have her young, a nest box filled with straw should be placed inside her hutch. An apple crate 12 inches by 12 inches by 24 inches with a 7-inch round opening, at top, in one end is ideal.

While it's possible to raise rabbits on hay and oats alone, it isn't economical. More pounds of meat per pound of feed fed can be realized by feeding a good commercial rabbit ration.

Rabbit raising takes a small amount of capital to start. Yet rewards are satisfying. It's an interesting hobby that often can be profitable. Once the taste for tender, all-white rabbit meat is acquired, raising rabbits for the dinner table is just cause for most farmers and suburban folks to keep a few.

If you want more details on rabbit raising, just drop a line to *Kansas Farmer*, Topeka, Kan.

What Makes a Grasshopper Green?

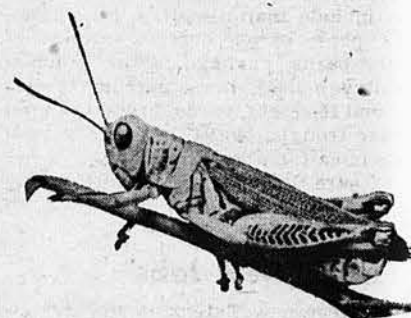
IS IT TRUE a grasshopper is green because of what he eats? Is it true a grasshopper "never looks before he leaps?"

A study at the University of Ankara, Turkey, and other studies show grasshoppers get green from eating green, growing grass! It is believed formation of green pigment depends on breakdown of chlorophyll (green constituent of all plants). How and when a "hopper" changes color may help scientists learn more about chlorophyll. Tests at Ankara showed hoppers turned yellow if dry vegetation was only food.

Altho new control methods are making the hopper less a pest than formerly, he still does plenty of damage. On the other hand, he's good for poultry food, excellent fish bait, fertilizer, and even food in parts of the world. The Bible mentions persons eating locusts and wild honey. And Moses named 3 kinds of grasshoppers that could be eaten. Early-day U.S. Indians ate them.

The grasshopper is a rugged individualist. He takes life as it comes and is "at home" anywhere. He is powerfully built—with hard "armor" hide, muscled jaws, hard teeth, and magnificent jumping ability. The skeleton is a chemical compound called chitin, which sheathes the body. The "armor" is flexible, tough, light, shatterproof, resistant to acid compounds which eat clothing, flesh and bones of man. His long, hind leg is a combination catapult, landing gear, fiddlestick, pole climber and scratching apparatus! He talks and sings with his legs!

A hopper does look before he leaps! Usually he chooses a landing place, judging the distance with his compound eyes, made up of thousands of little eyes. He can see all around, front and back—for a distance of several feet! He has a set of 3 simple, small



eyes for "close" work. Of course, a scared hopper doesn't look before he leaps! There are a pair of wings for the "take-off" and a pair of "propellers"—which make a whirring noise. There is an eardrum on either side of the body, and a hopper can hear thru his feelers or antennae, too! He has no windpipe, lungs, heart, veins or arteries. He breathes thru portholes in his hide, has a tube down his back for carrying blood. Hopper blood is green, as it carries no oxygen or carbon dioxide.

That "tobacco juice" a hopper spits out, much to the dislike of many, is an acid secreted in its crop, and which is ejected when the hopper is frightened. He can eat most anything—in the bad hopper year of 1874 the pests even attacked pitchfork handles, window sills, and saddles!

Scientists have found belief in the theory that where and when a hopper will feed depends on: body temperature, sunlight intensity and air temperature. If the problem of that "when and where" is solved millions of dollars could be saved yearly. To help scientists in taking a grasshopper's temperature, General Electric Corporation designed and built a delicate thermocouple (5/1000-inch in diameter)!

Free Fair Gets Many Improvements

Among repair work completed at Kansas Free Fair grounds this summer is a redecorated 4-H Club building, at north edge of the area. It has been repainted from battleship gray to a light pastel green. A new office has been built and a water fountain installed.

Also ready for the 1953 Fair, September 12 thru 18, is a revised 4-H Club livestock building. It has new lighting and air vents.

The livestock building on the east side of the grounds has been renovated to include shower and toilet facilities for herdsmen. Separate water lines have been installed for cattle in the barns, to eliminate carrying water. More room has been made for increased beef cattle entries.

Offices for the superintendent of poultry have been built in the poultry building. The home appliance building has been repainted and there will be more room. There are new exhaust fans in the exhibit hall, too.

These are among improvements made for agricultural improvement of the Fair.

New Spray Is Tough on Flies

The old housefly finally met his match in a new spray called Malathion, says Dell Gates, Kansas State College Extension entomologist. The new product has been tested at Kansas State College and at Rock Springs, state 4-H encampment.

"By using straight Malathion sprays at Rock Springs we have been getting control for one-week periods," says Mr. Gates. By using bait sprays the indications are we can get as high as 2-weeks control on houseflies."

Malathion apparently is no more effective than DDT and Methoxychlor on stable flies and is not recommended for use in dairy barns or on animals. Neither is it recommended for household use.

Recommended uses for the new product include manure piles, hog pens, calf pens, barns, corrals, outside of dairy barns, garbage heaps, fences, poultry houses, horse barns, fences around feed lots, yards, ground around water troughs, walls, beams and ceilings in calf, horse or hog barns.

Be sure to follow all instructions by the manufacturer.

Starting New Jobs

Thirteen new Extension workers attended the annual eastern district Extension conference at Topeka, July 14 to 15. Included were 4-H Club, home demonstration and agricultural agents.

Those who are just starting their Extension service include Lou Franks, Allen county; Edith Hansen, Lyon county; Patricia Mallum, Pottawatomie county; Phyllis Bunker, Chase county; Rosemary Wade, Wabaunsee county; and Doris Rogers, Wyandotte county, all home demonstration agents; Bill Billings, 4-H, Brown county; Irl Parker, Extension agent, Linn county; Jim DeMott, Extension agent, Jackson county; Albert Wesley, 4-H, Allen county; Bryce Orr, Extension agent, Coffey county; and Kenneth Carson, Extension agent, Bourbon county.

Alfalfa Seed Production

"Alfalfa Seed Production in Kansas" is a 32-page circular of the Kansas Agricultural Experiment Station, Manhattan, which tells of management, insect control, certification and distribution of alfalfa seed. As a service to readers, a copy may be ordered thru Farm Service Editor, *Kansas Farmer*, Topeka, Kan. No charge. Ask us to order Circular 290.



WHAT BETTER PROOF OF CUSTOMER SATISFACTION!

THAN ANY OTHER SEED CORN

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For 14 Straight Years MORE FARMERS HAVE PLANTED

BUY U. S. SAVINGS BONDS . . . the BEST BUY for Your Future

Does the Work of 3 Men!

Portable All-Steel **MULKEY** FARM ELEVATOR 12-Month All-Purpose Use

Handles EAR CORN Small Grain Baled Hay

• Portable • Balanced • Double Trough • Custom Built

HEAVY DUTY FEATURES—14 gauge steel trough • 5 in. straight sides • No. 55 double chains • 18 in. across trough • 8 ft. spring lift drag hopper or gravity hopper (extra) • 4 ft. and 8 ft. sections for desired lengths.

Standard Equipment includes roller chain speed reduction, motor mount with belt release, "built-in" power take-off, shelled corn screen, safety slip clutch. Ready to Operate Except For Power.

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SAM MULKEY COMPANY
1621 N8 Locust Kansas City 8, Mo.

Even in seasons with normal rainfall, does it always come when you need it? A few dry days (every growing season has them) and bright prospects fade. Quantity and quality of your crops suffer and may be lost entirely.

Adequate, controlled moisture during growing season with an ATLAS PORTABLE SPRINKLING SYSTEM insures your crop against failure due to drought; insures quality and quantity.

Write today for a free catalog.

JONES & LAUGHLIN STEEL CORPORATION-SUPPLY DIVISION

407 N. Main St. Muskogee, Okla.



Take it easy... smoke
P.A.
 mild, tasty, all the way!

"Whether I'm working outdoors or relaxing indoors, Prince Albert's the best smoking companion I ever had! P. A. burns long, smokes smooth and it's easy on the tongue..."

George Murphy
 Bridge construction foreman

"George has got something there! And Prince Albert is as easy to roll as it is mild! P. A. in a 'makin's' cigarette makes a mighty fine smoke!"

Earl F. Kresge
 Construction worker



EASY ON YOUR TONGUE! Prince Albert's choice tobacco is specially treated to insure against tongue bite! The bite's out, the pleasure's in!

EASY TO DRAW! Crimp cut Prince Albert packs just right in your pipe. Smokes cool, mild and is long-burning — all the way!

EASY ON YOUR POCKETBOOK! More tobacco now in every pocket tin! More smoking pleasure for your money!

EASY TO ROLL! You can't beat Prince Albert for a "mak'n's" cigarette! Rolls easy — stays put — doesn't dribble out the ends!

R. J. Reynolds Tobacco Co., Winston-Salem, N. C.

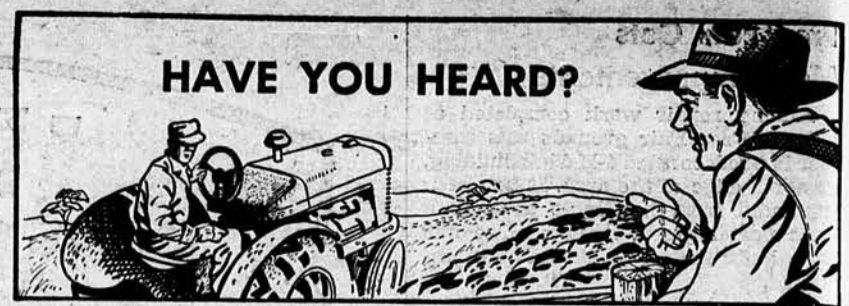
Prince Albert

America's largest-selling smoking tobacco!

Your Best Buy Today Is U. S. Savings Bonds

NATIONAL Vitrified SILOS
 Everlasting TILE
 Cheap to install Trouble Free. Also Tile Stave Silos. Outside Reinforcing.
 Buy Now Erect Early IMMEDIATE SHIPMENT
F. H. A. LOANS AVAILABLE
 Write for prices. Special discounts now. Good territory open for live agents.
NATIONAL TILE SILO COMPANY
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 STATE SIZE WANTED KANSAS CITY 15, MO.

SEARLE
Farm Duty
LUBRICANTS



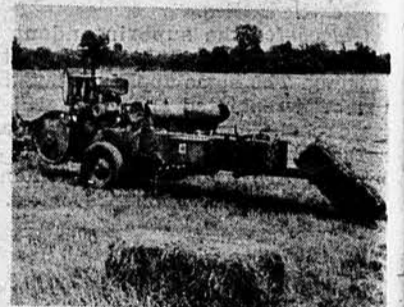
HAVE YOU HEARD?

Notes on New Products and Folks Who Make Them

PANOGEN is a liquid disinfectant for treating wheat seed which controls not only smut, or bunt, but also seedling blights which can drastically reduce yields. Local grain elevators, feed and seed dealers can apply the product. Treated seed can be stored after treatment, or planted almost immediately. Panogen, Inc., Ringwood, Ill.

Nor-Gee Corp., Dept. KF, 221 Palmer St., Jamestown, N. Y.

McCormick No. 55 baler has capacity to bale up to 10 tons an hour, announces International Harvester



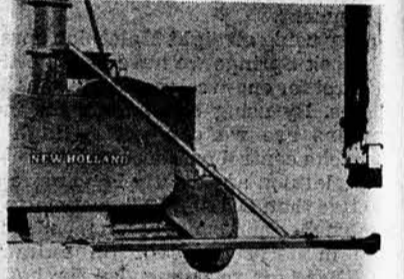
Gleaner Model P-80 is a new 80-inch pull-model combine, by Gleaner Harvester Corp., Independence, Mo. Write for a new color booklet.

Letz Mill Feeder for Portable PTO Grinder is announced by The Letz Manufacturing Co., Crown Point, Ind.



Company. Is automatic-tying, engine-driven, pickup baler which makes a new, heavier 15- by 19-inch bale.

New Holland announces a new attachment for their field forage harvester, a deflector guide which auto-



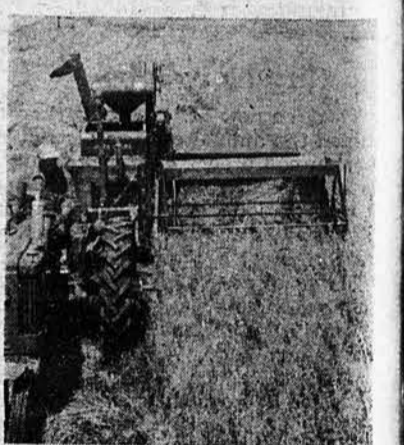
Angle steel frame bolted to grinder avoids service work. Removes work of lifting many tons of feed and crops.

John Deere Model "70" tractor is announced by Deere & Company, Moline, Ill., to replace the Model "G"



matically keeps flow of material centered in wagon. Even turning sharp corners, spout and wagon are always lined up. Chopped forage lost in turning corners or on contoured row crops can be saved.

New John Deere Combine with 6- or 7-foot cut is No. 25, successor to No. 12-A. New combine saves more grain



Tractor. Has all advanced engineering features. Heavy-duty, row-crop tractor that handles 4-bottom plows.

Dobbins Manufacturing Co., Elkhart, Ind., announces Basic Spray Boom for spraying farm crops. Simple conversion accessories convert Basic Boom to all spraying jobs. Can be front or rear tractor-mounted, trailer- or skid-power-sprayer mounted, or trailer-tank mounted.

Hi-Lo Adjuster is a new extension attachment for hammermill dust collectors. Distributed thru dealers by Ottawa Warner Corp., Inc., Kansas City. Adjuster makes possible raising and lowering dust collector to various heights to suit loading needs.

Wagner W-2070 Bale Handler is used with Wagner WM3 or WM4 Hydraulic Tractor Loaders, of Wagner Iron Works, Milwaukee, Wis. W-2070 can lift and stack from 1 to 8 bales of hay or straw. Good for lifting and stacking many bulky items.

Jumbo Mail Box is an ample one, to hold large magazines, small packages, all types of mail. Rust-resistant steel.

and more seed from the 100 or more combinable crops grown in the U. S. New quick-change cylinder speed control. New open-bar grate with snap-in inserts insure clean threshing. New windrow spreader. New non-piling cleaning shoe. Stronger frame and hitch.

Carl Rudeen, Jerome, Ida., has some field-tested improvements on twine tie balers, which fit most popular make farm machines.

Meade Mower has new reverse drive, is easy way to mow lawns, weeds. Self-propelled riding type mower. Meade Products, Meade, Kan.

Miner-A-Zinc Sheep Blocks are made by Kay Dee Feed Co., Sioux City, Ia. New method of feeding sheep phenothiazine. A safe, effective sheep wormer.

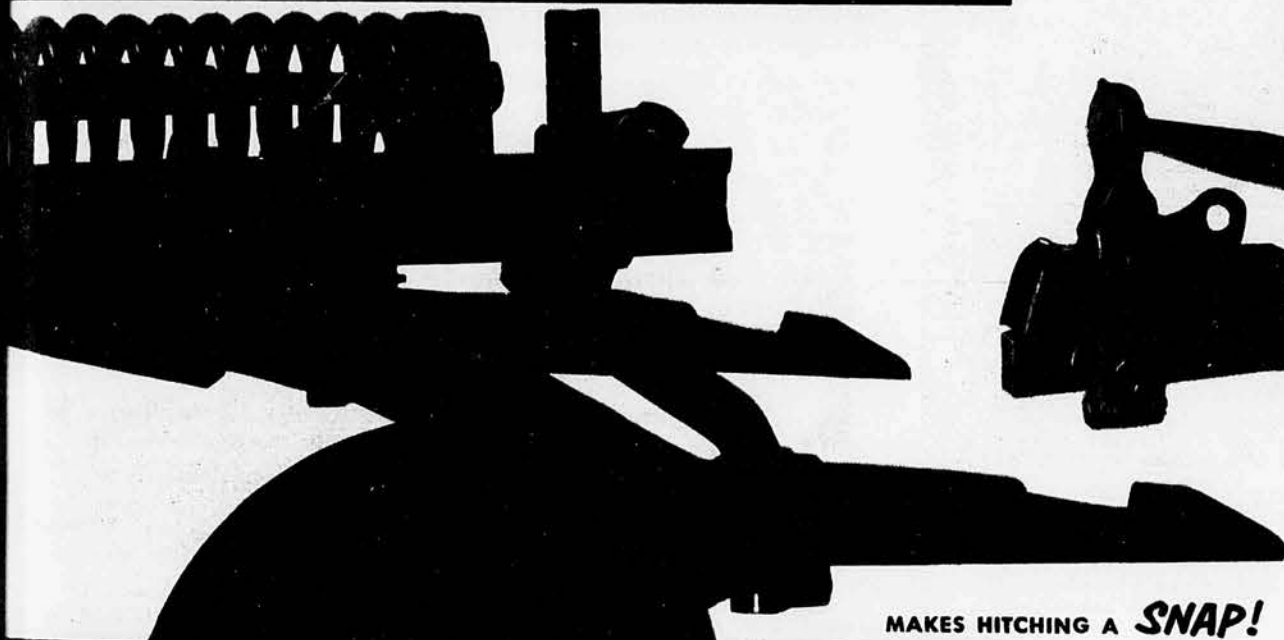
Now . . . automatic hitching

with FARMALL

Fast-Hitch

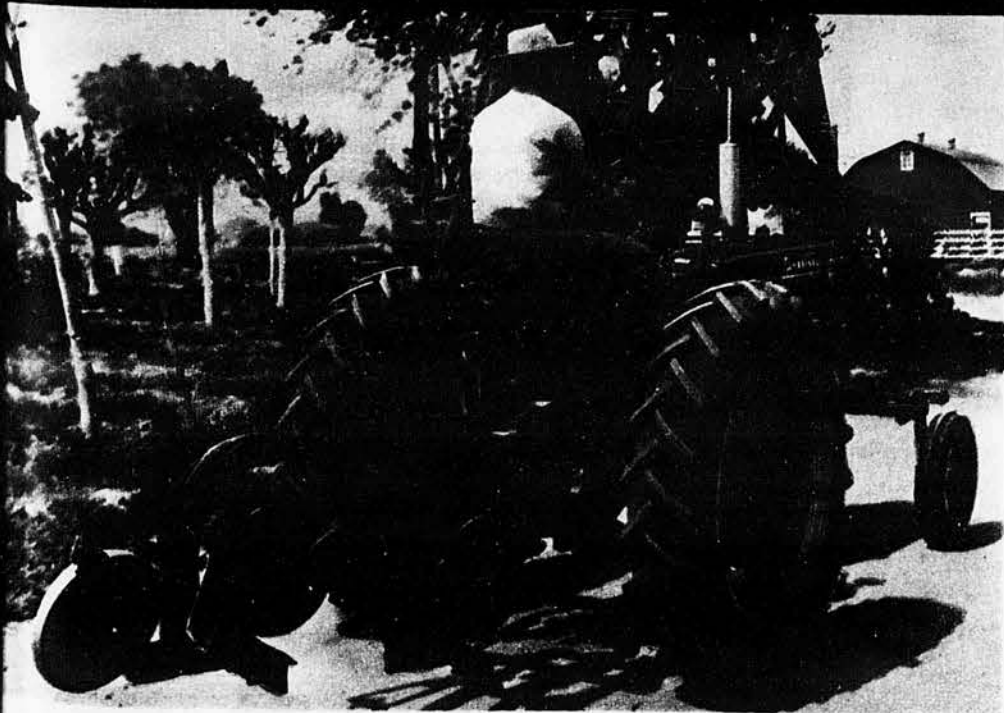
for the McCormick® Farmall® Super C

1. JUST BACK IN



MAKES HITCHING A *SNAP!*

2 . . . AND GO!



**The easiest, fastest way
to hitch implements
ever developed!**

There is nothing like it. It's so new—so revolutionary—so advanced—that you'll want to try Farmall Fast-Hitch yourself.

Here is all you do. Back up the Farmall Super C, line up the sockets to meet the twin coupling beams on the implement. As you back, the beams slip into the hitch sockets and lock *automatically, instantly, and precisely.*

You touch a hydraulic lever, up comes the implement—and you are ready to work—all *without leaving the driver's seat*, without lugging, tugging, straining. No expensive or complicated linkages to fuss with.

You hitch in seconds. You use tractor and hydraulic power instead of muscles.

Try it NOW. See your International Harvester dealer.



**there's much more—see how you have
complete hydraulic implement control**

see how



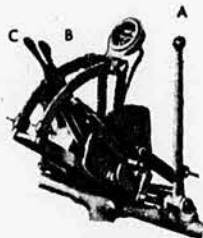
Measure... Compare... Prove-to-Yourself

**at the touch of your finger . . . hydraulically,
you dictate any implement action
. . . Farmall Touch-Controlled Fast-Hitch
delivers instantly, effortlessly**



Now farming can be as simple as ABC!

The three hydraulic control levers shown at the left are right at your fingertips.



- With "A" you hydraulically raise and lower implements.
- With "B" you hydraulically adjust plowing depth where you want it — and assure the correct line of draft for best quality work.
- With "C" you hydraulically level the implement.

Fast-Hitch is free-floating three ways. All McCormick F-H implements are free to "float" vertically, independently of the tractor. Uniform depth is maintained regardless of ground variations. This floating action automatically maintains correct line of draft. Fast-Hitch also is free-floating, side to side. You have "swing" for work on sharp contours. And, Fast-Hitch is free-floating, diagonally. Harrows and other wide implements are free to follow slopes and other ground contours. Fast-Hitch maintains the quality of work for which McCormick implements have long been famous!

. . . Or, Fast-Hitch can be made rigid. In an instant, you can change Fast-Hitch from free-floating to fully rigid, or partly free-floating and partly rigid. The Farmall Fast-Hitch meets every field operating requirement!

Fast-Hitch slip-on drawbar is hydraulically controlled. You slip the drawbar for trailing implements into position in *seconds*, and adjust its height hydraulically for best line of draft. A swinging drawbar also is available. Fast-Hitch improves the operation of *both* trailing and mounted implements.

A Fast-Hitch adapter unit is available for special duty equipment and for many implements presently designed for use with most 3-point attaching systems.

A call to your IH dealer will place a Farmall Super C with Fast-Hitch at your disposal for a free trial on your own farm. Why not call him today?

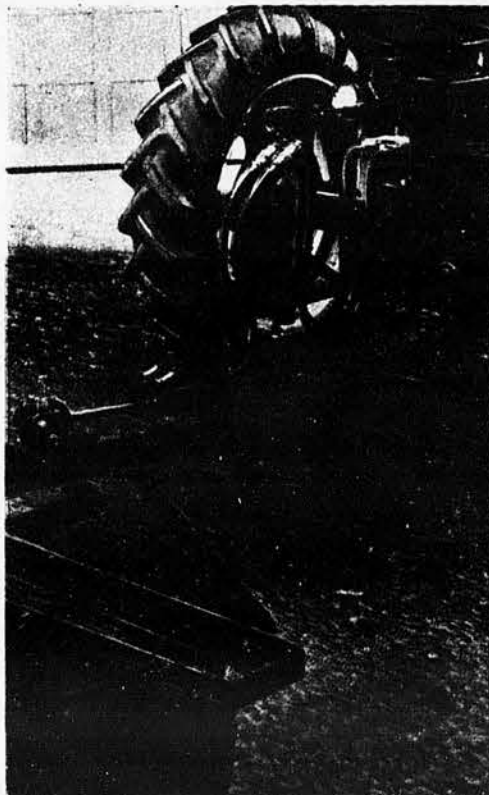
Control front and rear-mounted implements together or separately

Three double-acting hydraulic cylinders on the Farmall Super C give you complete control of *both* front and rear-mounted implements. You can apply down-pressure on cultivator gangs, control right and left front gangs individually for point rows, and use delayed action for rear section.



Regulate trailing implements with hydraulic Remote-Control

The Fast-Hitch cylinder is easily removed from the tractor and used to control disk harrows, trailing plow, grain drill, mower and other pull-behind implements equipped with mounting for ASAE standard remote-control cylinder.

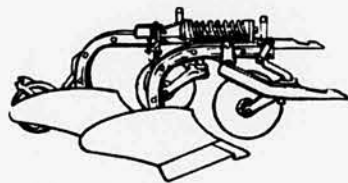


Farmall Super C lifts itself for fast tread width change

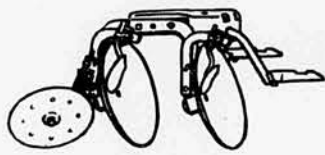
With the slip-on drawbar in place, simply put a block under the drawbar, touch the hydraulic control lever and up comes the tractor rear wheel for easy sliding adjustment to the tread you want. No more hunting up a jack when you want to change wheel settings!



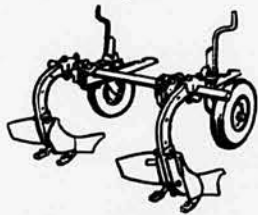
The largest, most complete line of McCormick implements ever available for a 2-plow, 2-row tractor



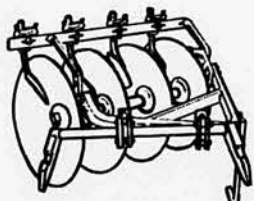
Two-furrow, 12"-14" mold-board plow



Two-furrow disk plow



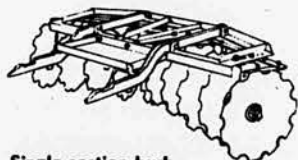
Two-row, 14-inch middlebuster



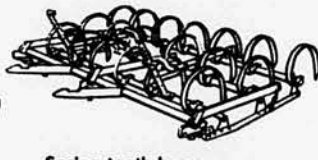
Four-disk harrow plow



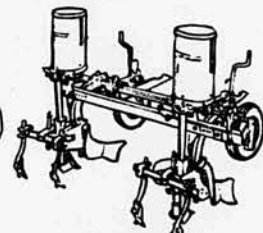
Seven-foot tandem disk harrow



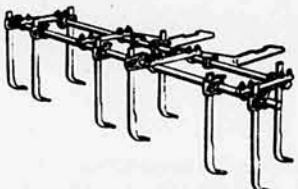
Single section bush and bog harrow



Spring-tooth harrow



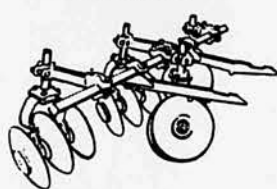
Two lister planters and a Blackland planter



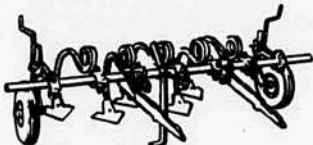
C-652 cultivator with F-H rear section; also available: C-254 cultivator with F-H rear section



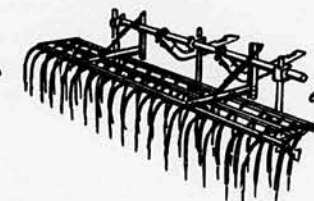
Two mowers, regular and heavy duty



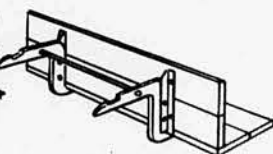
Toolbar with disk bedder



Two toolbars with coil and stiff teeth



Two-row weeder mulcher



Platform carrier

Here are typical examples of the many clean, simply designed McCormick Fast-Hitch implements. No expensive, cumbersome frames and linkages.

Now you can get the implements you need at low cost with the complete assurance of McCormick time-proved, field-tested performance.

Fast-Hitch LIFT-TYPE IMPLEMENTS for the Farmall Super C



Fast-Hitch fertility level planters include check-row, power hill-drop, and drill corn planters, and cotton and corn drill planter.

A full line of forward-mounted implements for the Super C

Now with the Farmall Super C you can enjoy effortless Fast-Hitch implements plus all the advantages for which quick-connected McCormick forward mounted implements are famous—including cultivators (6-row beet and bean, 2-row corn and cotton with F-H rear sections), planters, peanut digger, bean harvesters, two-row "skip-row" middlebuster, and leveling and grading blade.

3 new mounted harvesting machines for the Super C to completely mechanize your farm operations in corn, in cotton

NEW

NEW McCORMICK No. 14-M CORN PICKER

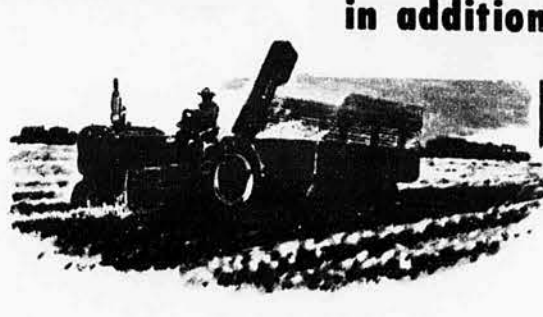
provides all the advantages of mounted picker design in a 1-row machine. Picks 7 to 10 acres a day.

NEW McCORMICK C-14 COTTON PICKER

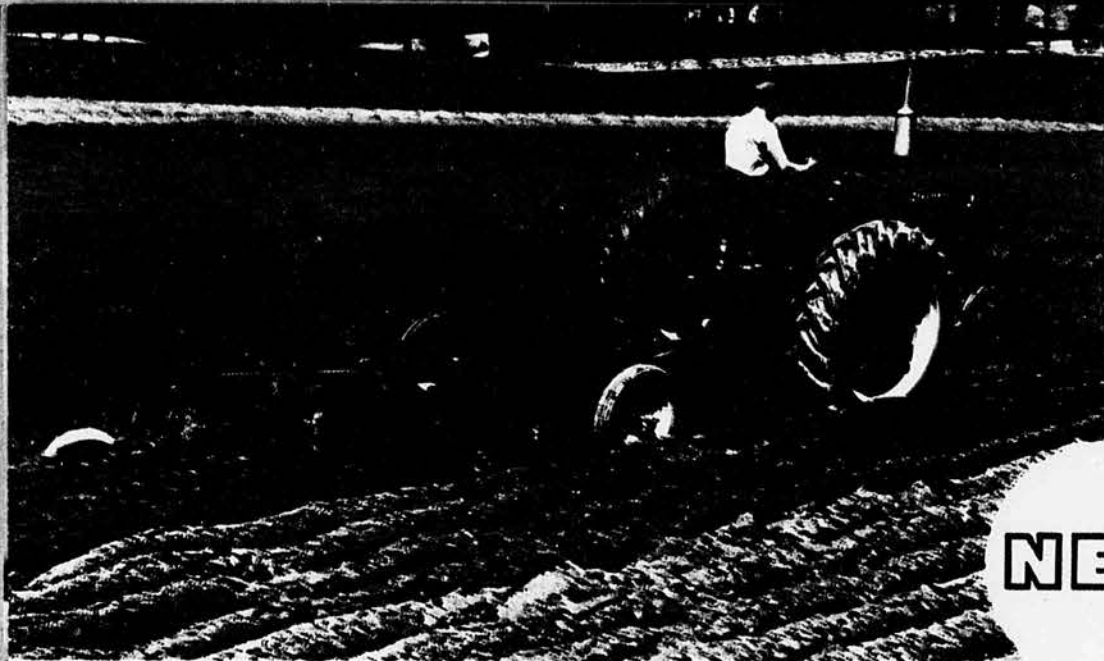
—a "first" in mounted pickers for tractors in the 2-row, 2-plow class. Picks up to 8 acres a day.

NEW McCORMICK HMC-20 COTTON STRIPPER

gives you clean, fast stripping. Handles up to 25 acres a day of storm-proof, semi-storm-proof cotton.



in addition



New Farmall Super M pulls 4-furrow No. 8 plow with new Plow Chief bottoms

You pick the field—and the job. Then prove to yourself how the Super M's 44 1/4 drawbar horsepower and faster, more useful speeds cut your field time. Try it on a plow equipped with McCormick Plow Chief bottoms—prove you can cut your plow share costs in half! Super M series tractors include engines for gasoline, distillate, diesel fuel, LP gas. High clearance models are available with engines for each type of fuel.

NEW



Super M with New LPG attachment and New McCormick 35-A wheel-controlled tandem disk harrow

Hitch this 12-foot wheel-controlled disk harrow to a Super M—and do up to 60 acres of perfect disking a day. The wheels let the disk work at full depth without burying in loose ground and let you go to and from fields in high gear!



New 28-A lift-type disk harrow on the Farmall Cub

Choice of 4 or 5-foot sizes to do 12 to 15 acres of high quality work in a day. Harrow hydraulically lifted for easy turns and convenient transport—easily backed into corners to work *all* your land.

New A-Cub 201 Planter on Farmall Super A

Easily mounted on Farmall Cub or Super A tractor. Lifted and lowered by hydraulic Touch-Control. Plants corn, cotton and dozens of other crops in row spacings from 20 to 40 inches.



New Farmall Super H and new 4-row planter check-plant 55 acres a day

Now you can plant to the fertility level of your fields with this new McCormick 4-row trail behind planter. Do it at the depth you want, for each two-row unit is free to move up and down over the contour of the land.



NEW

New Farmall Super H cultivates up to 75 acres a day

Get in the driver's seat and let the 21 new features of the new Farmall Super H "talk" for themselves. See how the 14% more pull-power of the Super H makes it easy for you to cultivate up to 75 acres a day, pull three 14-inch plow bottoms in most any soil. Faster field speeds help you save time on many jobs. New disc brakes are self-energizing. A toe-touch is all it takes to make a pivot turn or an emergency stop.

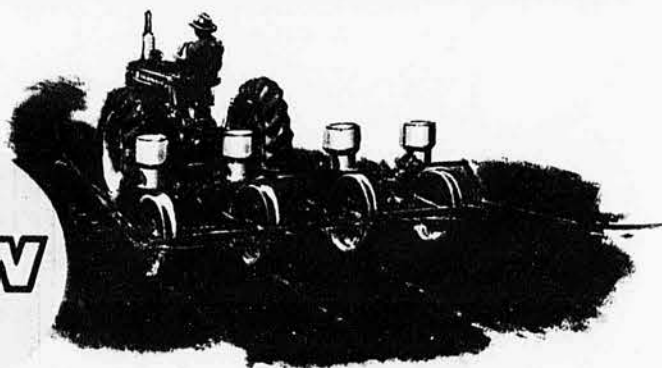


in the past 24 months...

In addition to the full line of Fast-Hitch implements for the Farmall Super C, IH has built for you 34 new farm machines and new lines of motor trucks, refrigerators and freezers, room conditioners, and dehumidifiers.

As in the past 122 years—International Harvester continues to lead the farm equipment industry in bringing you new labor-saving machines designed to increase production and cut costs.

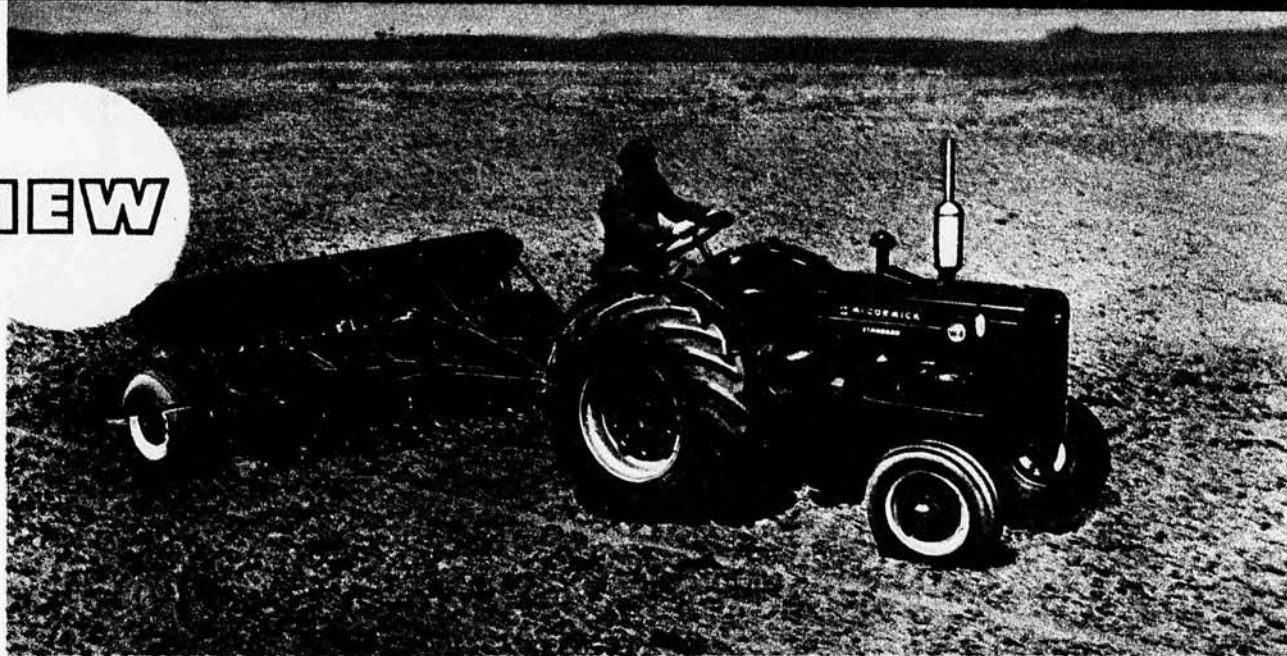
Just a few are shown here. Look them over—try them, with full assurance. They are a part of International Harvester's continuing program of product development and improvement to provide you with equipment keyed to today's farm production problems.



New McCormick Super W-4 and new 10½-foot fertilizer-grain drill seed over 50 acres a day!

The faster Super W-4 has bigger "muscles." Try the increased horsepower that makes it a three-plow tractor in most soils. Compare its easy steering and braking. Prove to yourself that, any way you measure it, the Super W-4 stands at the head of its class! Just throttle down, in fourth gear, to seed at speeds of 5 or 6 mph! You save time, fuel, and labor without any sacrifice of seeding accuracy. Look back at the wide 10½-foot span of this low-wheel drill that makes a few rounds add up to a lot of acres. Discover how you can do three jobs—sow grain and grass seed, and fertilize—all in one trip!

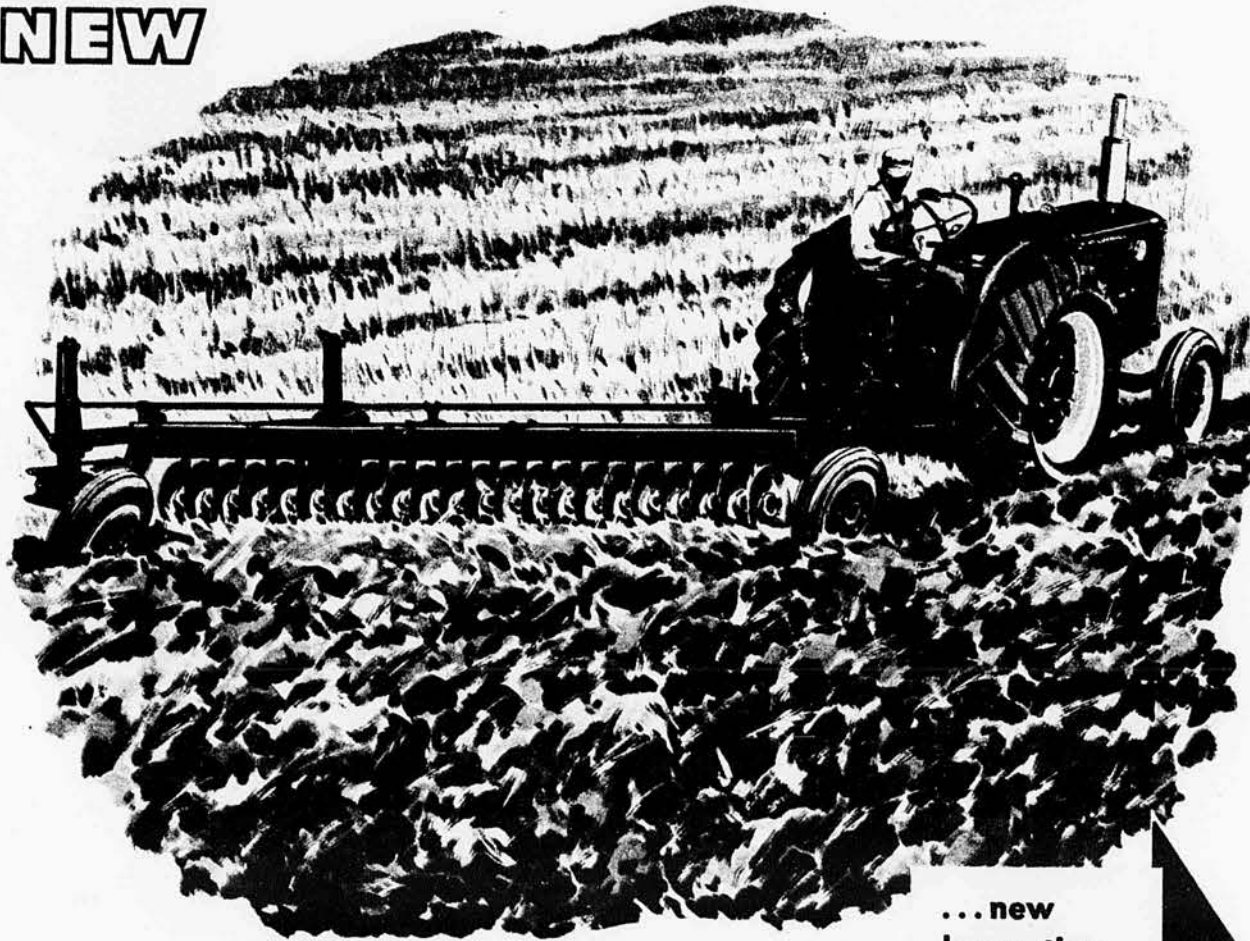
NEW



New McCormick 22-H one-way plows 6½ acres an hour

You can follow on the heels of a big combine with the powerful WD-9 and this new 15-foot plow to turn your stubble ground before it's sunbaked and hard. See how thoroughly the big 22-inch disks chop and mix stubble and trash, to make a blotter-like mulch that soaks up moisture and helps keep light soil tied down. Notice how the low hitch-point and overhead beam construction give you fast, positive penetration. See how easily this wide plow pulls at five and six-inch depths. Count the anti-friction bearings and you'll know the secret of this light draft. See how hydraulic Remote-Control lets you raise, lower, and control the working depth of this big plow with a finger touch. The closer you look at it... the longer you use it, the surer you'll be that there's nothing to match the new McCormick No. 22-H plow!

NEW



... new
harvesting
machines ...

New McCormick Super WD-6 tractor and New No. 4 tiller stubble mulches up to 60 acres a day

Now, you can quickly blanket fallow land with a straw mulch that soaks up moisture and staves off erosion. Hook this wide tiller to the Super WD-6 and head across the stubble at close to 5 mph! Reach way down with diamond point chisels and feel the surging pull of 43¾ drawbar horsepower, even on steep slopes. Try those faster speeds—2½, 3⅝, 4¾, and 6½ mph—that seem to put wings on your work. Prove to yourself that the Super WD-6 diesel or its gasoline-burning partner, the Super W-6, give you more of the things you want in a 4-plow standard tractor than any other make!

NEW



Measure... Compare...

NEW

New bigger-capacity McCormick No. 55 Series baler handles up to 10 tons an hour. New 15 x 19-inch bale size.

Use your watch to time the No. 55 baler. Prove that you can move your hay crop from windrow to storage faster than ever before! Notice that the twine ties are tight. See how the three-turn twist made by the wire-tying model gives 125-pound bales box-like rigidity. Pile them, and these big 15 x 19-inch bales stay tied to stand rough handling. Measure field performance in the heaviest hay. Compare bales for size, tie, and ease of feeding. Prove to yourself that the No. 55 is your best baler buy!

NEW

New McCormick No. 5 side rake windrows heaviest hay at high tractor speeds

Head across a rough hay field. Notice how the big 4-bar reel and those 10-inch-long teeth sweep it clean. Measure the windrow against the best you've ever made. It's loose and fluffy for fast curing. The feed-rich leaves are safe inside. Compare the new, more rugged twin-beam construction of the No. 5. Prove to yourself that the No. 5 side rake can deliver better performance and save more hay than any other side rake made!

NEW

New McCormick No. 20-C field harvester handles up to 25 tons an hour

Now, you can chop 250 tons of grass or corn silage—fill three 14 x 20 silos in a 10-hour day! Notice that the over-running clutch prevents bothersome clogging. Measure the nine lengths of cut against your storage and feeding requirements. Compare the ease and speed of the 4-bolt change-over from hay pickup to row-crop attachment. Prove to yourself that the McCormick No. 20-C can help you harvest bigger profits from your same fields!

You unload fast at the silo

with the McCormick No. 3 forage blower. There's no waiting. With a 2-plow tractor on the belt, the blower handles as much in a day as the 20-C can cut, chop and load in the field. The 9-foot conveyor raises quickly, easily.

NEW

New McCormick No. 2-PR husks clean—handles two rows of 100-bushel corn up to nearly 4 mph!

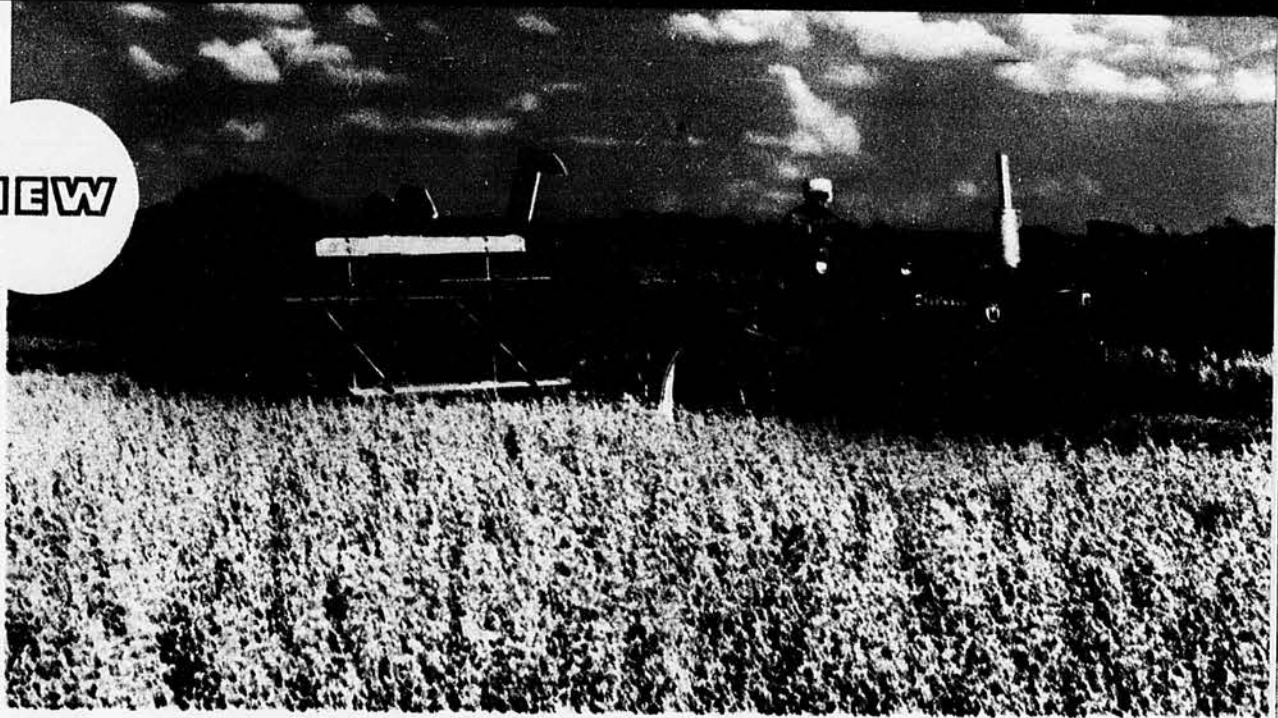
See how fast the No. 2-PR picker moves through tall, high-yielding corn. Notice the way it picks down and tangled corn. Compare the work of the six-roll husking beds with the cleanest hand picking you can remember.

Prove-to-Yourself

New McCormick No. 64 Harvester-Thresher —biggest of the 6-footers

Any yardstick will tell you the No. 64 is the biggest of the 6-foot combines. Measure the feeder, the cylinder, and the straw rack. They're all over 63 inches wide! This extra width gives you extra capacity—prevents slugging in shoulder-high grain—keeps you from seeding your stubble—lets you operate a full gear faster and put more clean grain in the tank. Comparison will prove that the No. 64 is not only the biggest, but the best 6-foot combine for you!

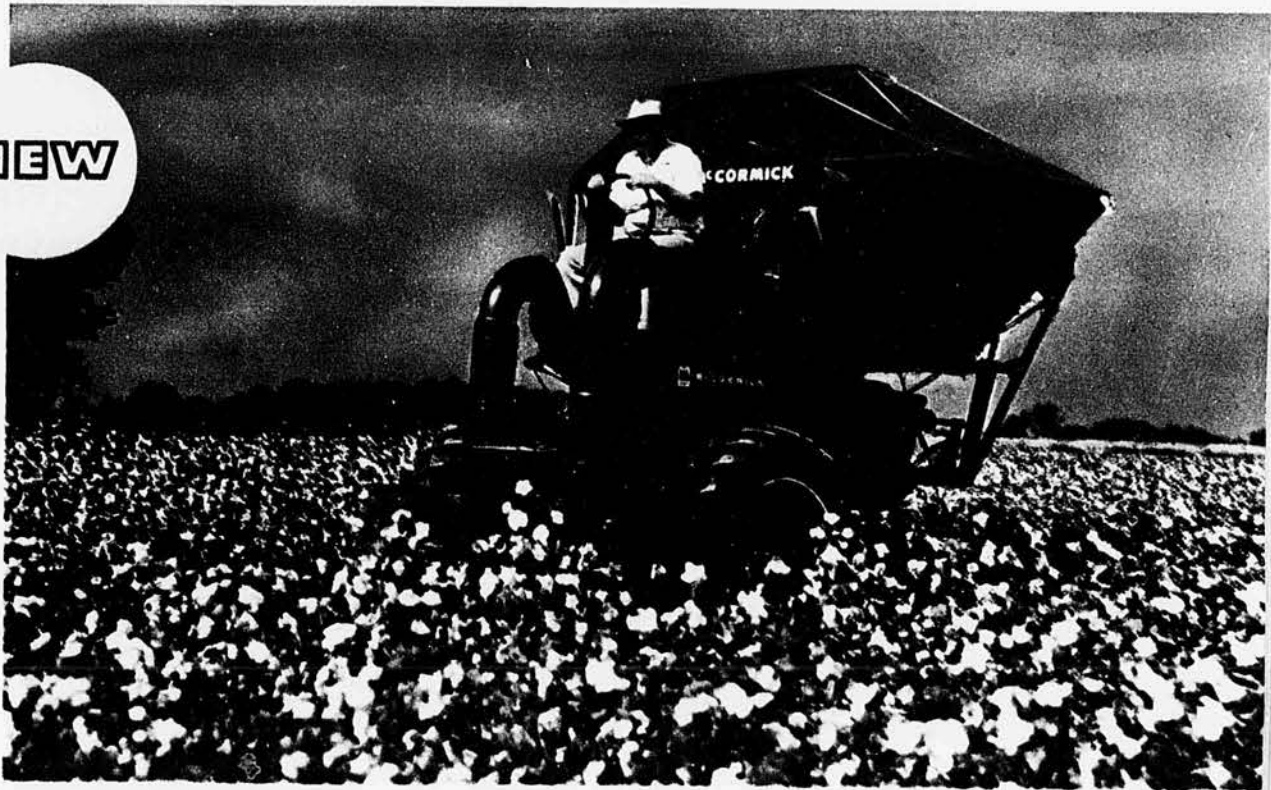
NEW



New two-speed, twin-fan McCormick M-120 picks clean in the heaviest cotton you'll ever grow

Tackle the heaviest cotton you can find. See how this high drum picker reaches top bolls on tall cotton. Notice how smoothly the two-fan conveying system moves the heaviest crop from doffers to basket. Look back at the picked rows that tell you the 600 tapered, barbed spindles have picked both sides of the row with more than 95 percent efficiency! Make your own comparison of speed, clean picking, and cost. Prove to yourself that this is the way to pick high, heavy cotton!

NEW

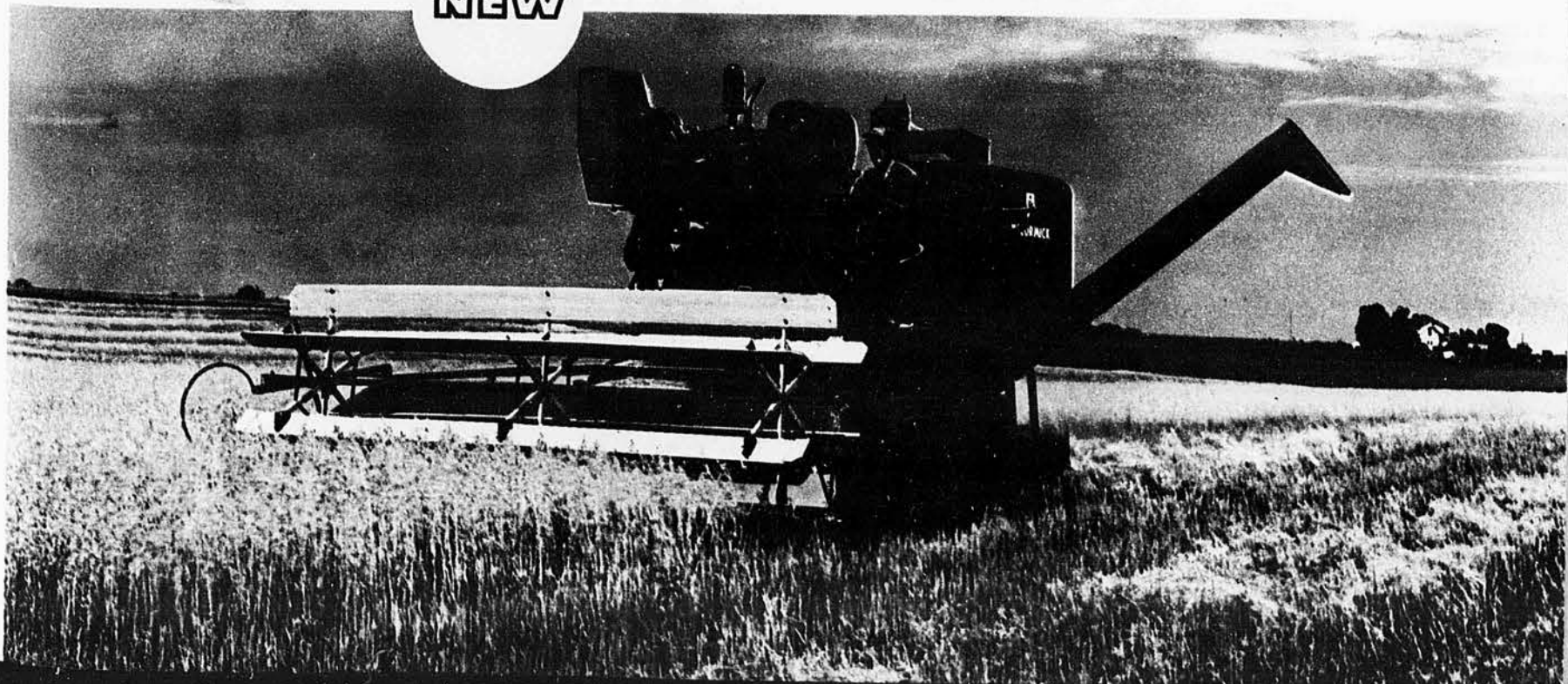


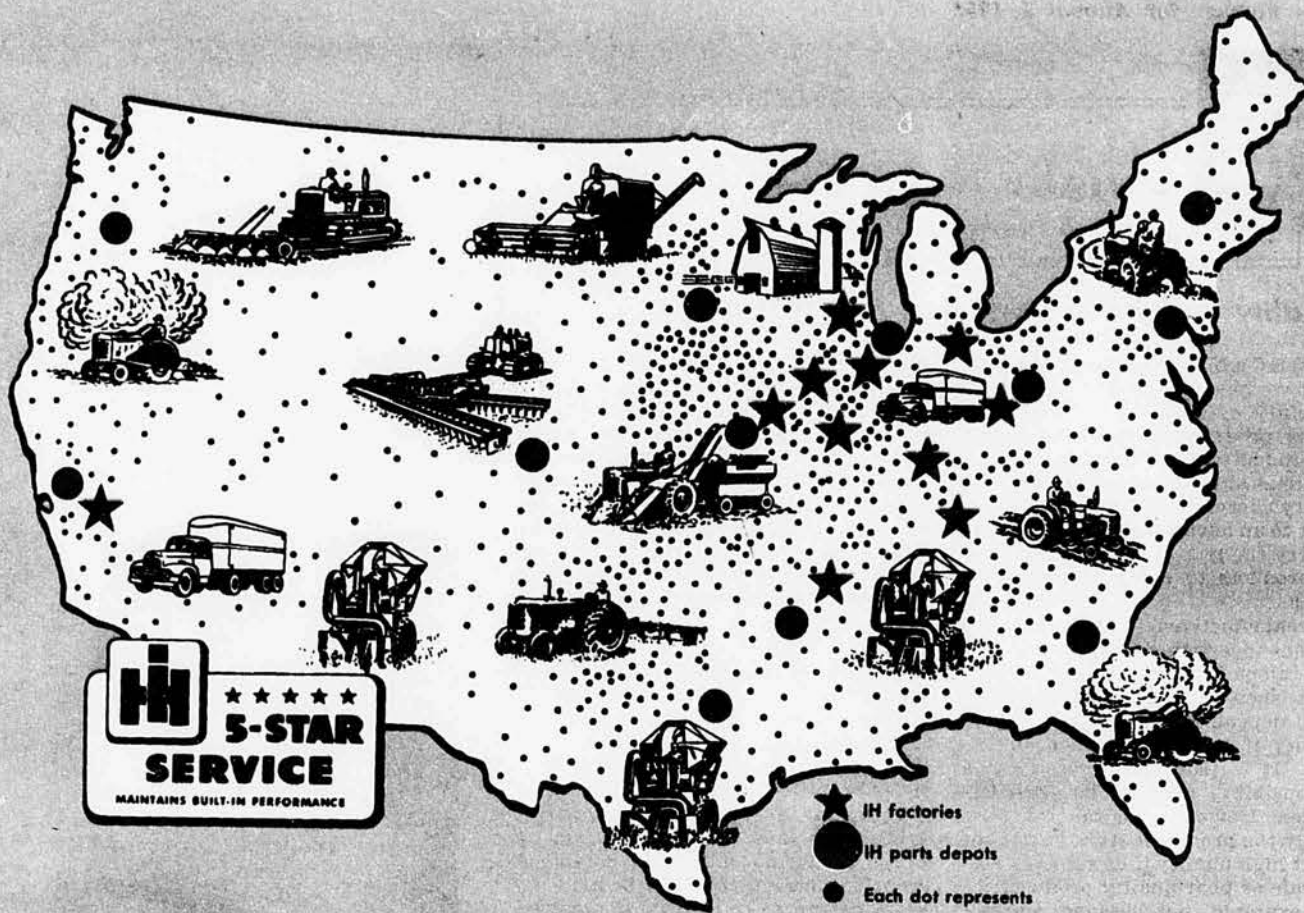
New 28-speed McCormick No. 127-SP Harvester- Thresher harvests clean—50 to 60 acres a day

You're master of your harvest in the comfortable seat of the 127-SP. Try the bird's-eye view that makes it easy to cut a full swath. See how easily you boss on-the-go unloading. Operate the handy controls that turn your wishes into work. Adjust the platform

hydraulically to save down grain or low-growing bean pods. Instantly match travel speed to changing ground or crop conditions. Compare the 10, 12, or 14-foot cut—the big threshing and double-shake cleaning capacity. Prove to yourself that the No. 127-SP is the harvest short-cut you've always wanted!

NEW





World's most efficient service and service parts network

protects your machine and crop investment . . .

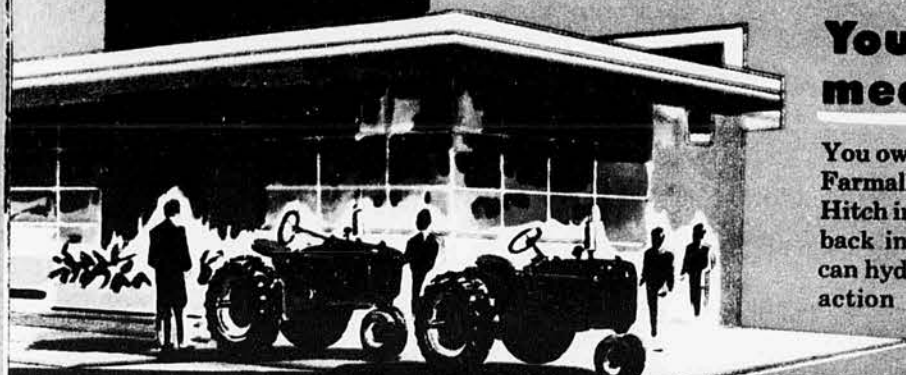
IH parts and service facilities are unmatched. You know the skill of your IH dealer's servicemen. You've seen the modern tools that help them do precision work. But that's only part of the story. Your IH dealer's men are constantly schooled in new machines and

new methods by IH parts and service specialists. Scientific inventory control saves you trouble by enabling your IH dealer to stock parts you need. The twelve strategically located IH parts depots supply seldom-called-for parts on short notice!

Your IH dealer invites you to measure...compare...prove to yourself

You owe it to yourself to see and try the Farmall Super C with McCormick Fast-Hitch implements. See how you can just back in—hitch—and go. See how you can hydraulically dictate any implement action with Farmall Touch-Control.

See how Fast-Hitch lets the full line of Fast-Hitch implements work the way they work best. Try the Super C or any other new McCormick machines on your own farm! Call your IH dealer and set the date.



Find out exactly what Farmall FAST-HITCH and other new developments can mean to you!

Send coupon TODAY!

International Harvester Company
P. O. Box 7333, Dept. 8-PI, Chicago 80, Ill.

I would like to read more about Farmall Fast-Hitch. Please send me your free catalog.
 Send catalogs on other equipment as follows:

Tractors (model) _____

Equipment _____

Name _____

Address _____

My IH Dealer is _____

I farm _____ acres; principal crops are _____

58 NEW FARM MACHINES IN THE LAST 24 MONTHS

Complete information is yours for the asking on 23 new Fast-Hitch implements and the Fast-Hitch Farmall Super C . . . PLUS . . .

34 new farm machine developments as listed below:

- | | |
|---|-----------------------------------|
| Plow Chief Bottom | No. 64 Harvester-Thresher |
| No. 22-H Plow | No. 127-SP Harvester-Thresher |
| Diskill | HMC-20 Cotton Stripper |
| No. 28-A Cub Lift-Type Disk Harrow | C-14 Cotton Picker |
| No. 41-A Offset Disk Harrow | M-120 Cotton Picker |
| No. 35-A Wheel-Controlled Disk Harrow | No. 1-PR Corn Picker |
| No. 30 Offset Disk Harrow | No. 2-PR Corn Picker |
| No. 29-B Offset Disk Harrow | No. 14-M Corn Picker |
| Improved No. 8 10-foot Field Cultivator | No. 400 Spreader |
| No. 4 Stubble Mulch Tiller | No. 52 Tractor-Trailer |
| DS Press Drill, M and MF Drills | C-72 Leveling and Grading Blade |
| Combination Hoppers for 13 Planters | Power-Washing Cream Separator |
| A-Cub 201 Planter | Super H and HV Tractors |
| No. 5 Low Wheel Side Rake | Super M, MD, MV and MDV Tractors |
| No. 55 Baler (wire and twine-tie) | Super M with LP Gas Attachment |
| No. 20-C Field Harvester | Super W-4 Tractor |
| No. 120 10-Foot Windrow-Harvester | Super W-6 and Super WD-6 Tractors |



INTERNATIONAL HARVESTER

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



Dwight Hull SAYS . . .

Quality and Advertising Sell Dairy Products

IN RECENT issues of *Kansas Farmer* we have stressed the need and advisability of a strong national advertising program to promote sale of dairy products. We believe we are not too optimistic in thinking dairy farmers everywhere are ready to lend their support to an advertising program that will carry the true picture of milk and dairy products to every household in America.

The real effectiveness and success of a national advertising program will not depend alone on how well dairymen support such a program financially, but will depend also in a large degree on quality of product dairymen send to market. It is true the processor has a responsibility here, along with the dairymen. However, no matter how carefully the processor tries, he cannot turn out high quality if he receives second-grade or poor-quality products.

For example, not so long ago we had lunch in a well-known cafeteria. Placards on the wall called attention to the fact they served butter. The butter we were served, however, was so strong we could hardly eat it. We hung our heads in shame. We cannot expect the public to enthuse or even buy such a poor product, and no amount of advertising can overcome the effect of an undesirable quality product being offered for sale.

In one of our major dairy states a random check was made on butter offered for sale. Only one-third was good enough to score 93 per cent; one-

third scored between 90 and 92 per cent and one-third scored 89 per cent and below. We use butter as an example because the only figures we have available are for butter. No doubt, the same situation exists with milk and other dairy products to a greater or less degree. For instance, we heard a woman who lives alone, say the reason she didn't use more milk is because it developed an unpleasant odor and taste within a short time after opening the bottle and thus a part of each bottle was wasted. In talking to numerous dairymen we have formed the opinion too many feel they are doing all right as far as quality in concerned, if they "get by" and the quality is good enough the processor will purchase it.

Somehow a different sense of responsibility must be developed among those producing milk and cream. A conscientious effort should be made by every dairyman to produce the highest quality product possible. We know there is nothing so tasty and good, and so economically nutritious, as high-quality dairy products. But what a let-down to try to use any dairy products of poor quality.

Therefore, if we are to obtain the result we should by advertising dairy products, we as dairymen should all become more quality-conscious than we ever have been before. Much needs to be accomplished in educating the average dairyman to his responsibility in producing a product that will carry the consumers stamp of approval.

Still Time for a Fall Garden

By WILLIAM G. AMSTEIN, Kansas State College

HAVE YOU PLANTED a fall garden? It is a little late for some crops and still early for others. With many gardens lost or injured by dry weather, more than normal attention needs to be given late summer and fall planting.

Some of the longer-season crops usually listed for fall gardens probably cannot be included in the northwest section of Kansas at this time. Likewise, this area has had a somewhat better season. If average fall frost dates prevail, returns should justify the risk of trying several crops even at this date over the state.

Leafy vegetables should be placed well up on the list for this late planting. Spinach, mustard, Swiss chard, lettuce and similar crops are adapted. Beans and turnips are other valuable crops. In many seasons, a fall planting of spinach may winter over and give early returns next spring. These late crops need to be where they will not be in the way for fall plowing of your 1954 garden. Here again in some sections it may help to speed your choice of an alternate or new garden site.

In sections where earlier frosts and more severe winters are the rule, some families use a cold frame or some similar method to provide some home-

grown vegetables such as leaf lettuce during late fall and winter.

Radishes, both winter types and the usual type, can be planted now, in early August. Winter-type radishes can be used the same as turnips. Plant them either broadcast or in rows.

It is late but not too late for Chinese cabbage. This is a crop more people should grow. A real fertile piece of ground that you can supply a little extra moisture is necessary. You will enjoy the uses you can make of this crop. Michili and Wong Bok are useful varieties.

Anyway plant a fall garden even if you only include a good patch of turnips.

In many gardens tomatoes are the most valuable crop left. Tomato foliage and fruit diseases may start to show up. Leaf spot and wilt are 2 common tomato diseases. Most of us have not had many tomatoes set on but cooler weather is helping answer this in many gardens. High temperatures hinder tomato set. Better-adapted varieties are setting a little earlier.

Leaf spot appears on leaves as water-soaked spots which later turn brown with grayish centers. The leaves finally dry and drop off. Starting with the lower leaves, the disease works upward on the plant to new leaves until the whole plant is often half to completely defoliated before much of the crop is matured.

If leaf spot or other diseases show up, spray or dust tomatoes to check the disease. A lime-free copper spray mixture or Bordeaux is suggested. Basicop, Copper Hydro, C. O. C. S. and other trade name products such as Parzate can be used. The manufacturer's directions on the package should be followed. Spraying should be done every week or 10 days until the disease is checked. In some ways dusting is satisfactory.

Neighborly Visit

"Over the Garden Fence" is a clever playlet written in poetry of 2 characters of opposite types. If you are planning a club or community program, we can recommend this playlet as every community is familiar with both types of characters. Send 3c for each copy ordered to Entertainment Editor, *Kansas Farmer*, Topeka, Kan.

6 FACTS FOR THE FARMER WHO SELLS ROOTS* or SEEDS*

Which of these is an important crop for you?

*ROOT CROPS

Potatoes
Onions
Carrots
Rutabagas
Sugar Beets

*SEED CROPS

Wheat, Oats
Flax, Barley
Corn
Peas
Beans



Anaconda TREBLE SUPER PHOSPHATE

Is especially important to root and reproductive parts of plants. Just as nitrogen is primarily a maker of leaf . . . so phosphate is essential to the root or seed. That's why ANACONDA PHOSPHATE is the prime plant food if you produce a crop whose root or seed is what you sell.

- 1 Phosphate . . . of all nutrients needed by your soil . . . is taken out faster than it can be replaced by nature.
- 2 For example . . . you haul away phosphorous equal to 102 pounds of Treble Super when you take 15 tons of sugar beets to the mill. Eighty bushels of corn takes out 104 pounds.
- 3 Good leaf growth doesn't always mean good roots or seeds to sell. That's why we say that Anaconda Phosphate doesn't always show up at the season's half-way point; but it sure does when you dig or thresh or sell! Yes, Anaconda Phosphate shows up best in *your bank book!*
- 4 If you are shooting for higher yields and increase your plant population per acre to do it . . . remember to increase the plant food, too. Extra plants require extra superphosphate.
- 5 The cheapest cost in producing a crop is your Anaconda Phosphate. Labor, seed, cultivating, harvesting . . . all cost more. Why skimp on plant food and waste your other work and money!
- 6 Anaconda Phosphate not only increases the yield; it also increases the quality of your crop. It's the way to be a premium farmer!

FREE!

. . . for a postcard

Write us your name and address on a postcard and send it to the box number below. We will send you, absolutely free of charge, the 32 page book *Pay Farming*. A very complete crop and soils book. Loaded with pictures and facts about plant food for your crops. Rates of application, results, etc. Send for it today!



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Look in your bank account for best proof that Phosphate pays!

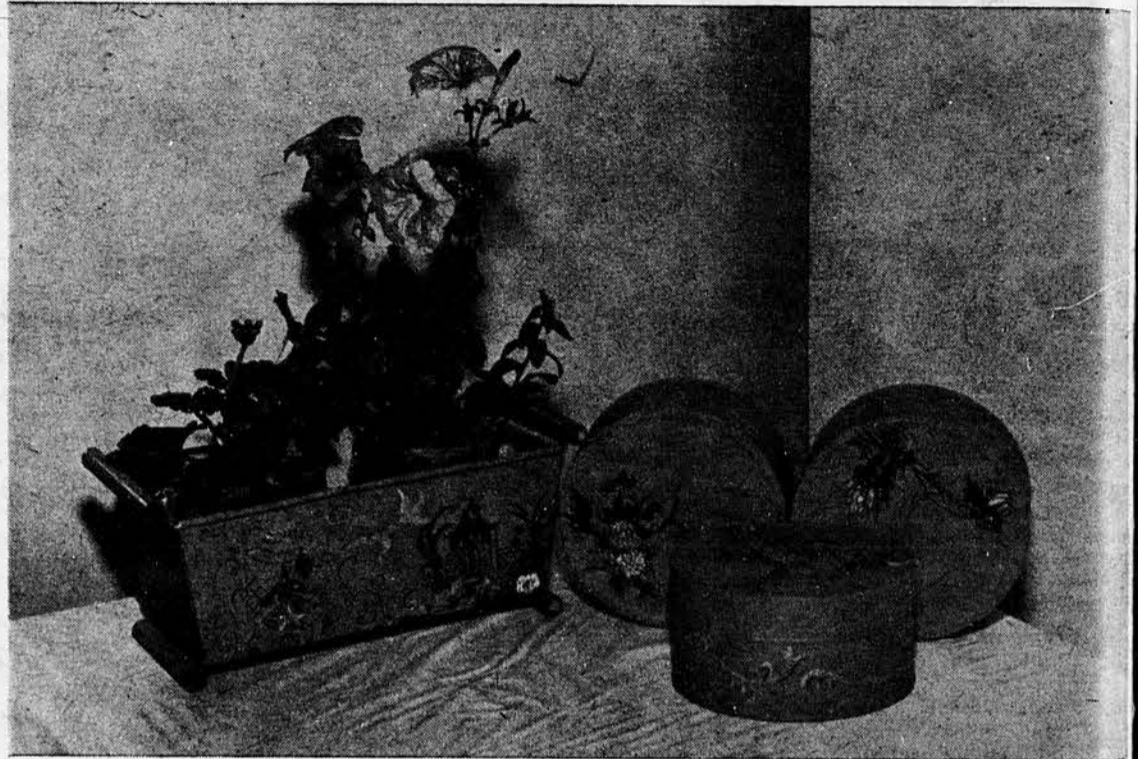
Kansas Farm Home and Family

By FLORENCE MCKINNEY

DUSTY PINK METAL BOX for flower pots and metal boxes for fruit cakes are decorated in Chinese floral designs.



WITH ALL SUPPLIES within reach, Mrs. Paul Ellis, who lives southwest of Tonganoxie in Leavenworth county, starts decoration on a tole ware tray. Other articles are shown, including pictures on wall.



PAINTING...

Satisfying, Pleasant and Profitable

A LEISURE TIME activity, Mrs. Paul Ellis, of Leavenworth county, finds painting a pleasant diversion, a project that yields satisfaction and one that will make pin money if pursued faithfully. She recommends it to other farm homemakers.

Not only pictures, but all sorts of household items get her attention. Designs, she says, come from everywhere. Sometimes she sees an appealing design in a wallpaper, or in a piece of drapery, or in a book. She does not hesitate to adopt and adapt it to her uses and apply it to a chair, a tole tray, a little metal or wood box, or perhaps a shapely bottle.

When she was a little girl she took lessons in China painting, when that was a popular innovation and her interest in things artistic has not ceased.

She says the first thing to do is a little sketching, even if it's nothing more elaborate or complicated than a box. Sketching teaches perspective. She recommends, too, that a be-

ginner get only basic colors and a small supply of good brushes, even if they are expensive. The better the brushes, the better the work. Plenty of white tube paint will be needed to soften brilliant primary colors. Any color desired can be made by mixing. It takes practice but is worth the effort.

Attractive, decorative articles are made from 10-cent items which she picks up at sales and variety stores. She found a tiny wooden tray at a Salvation Army store with a price tag of 10 cents. With her skill and talent, she gave it a black background and applied a bright floral design. It's literally as pretty as a picture.

"Learn at home, practice on your own, do it yourself," is Mrs. Ellis' advice. She thinks it's better than going to school. One source of help, she adds, are the paint stores. There she finds paper-bound booklets on painting for the beginner, also stencil books from which she gets ideas. At the same place she finds wallpaper samples. Home magazines offer colorful designs from both paper and fabrics. The paint store will have a sketch pad, too. One worthwhile book, she recommends is "Handbook of Early American Decoration," by Edith Cramer.

Three attractive chairs in the Ellis home are those she got from a pioneer-neighbor. They're early American kitchen type, sturdy, yet graceful and suitable for any informal setting. After sandpapering, she applied one coat of flat white and then 2 coats of dull black enamel.

A current interest is the picnic plate. They are ordinary aluminum pie plates which she decorates free hand in gay colors. In her home you may see old sad irons decorated in floral design over a smooth black background. Now they are used as bookends and doorstops. She has orders for decorated bottles, which customers will use for window color.

Plant boxes, button boxes, cloth lamp shades and china lamp bases, all have been utilized for her skill with paint. Last, but not least, she entered a picture in floral design in the Rural Arts Show held during Farm and Home Week at Kansas State College.

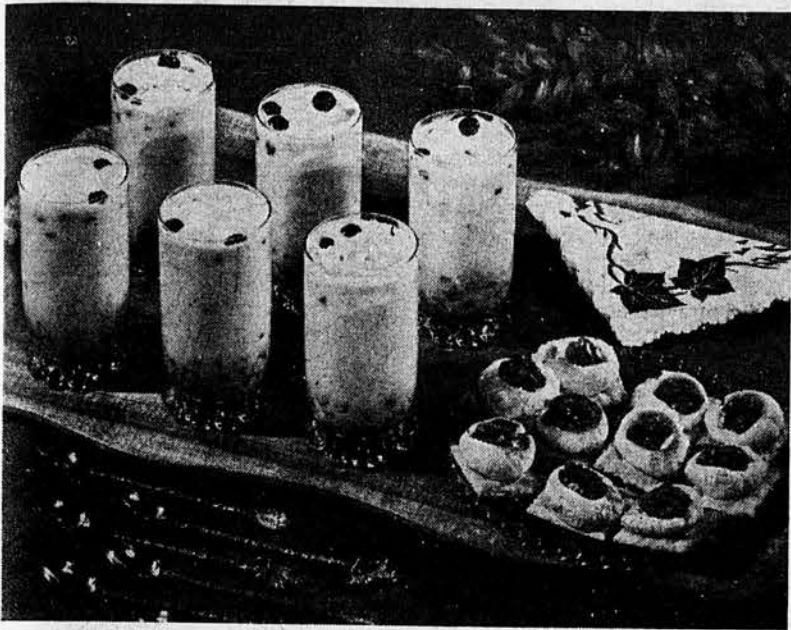


EARLY AMERICAN CHAIRS have sleek, black background and colorful flowers on seat and back. Picture on wall at left, Mrs. Ellis entered in Rural Arts Show at K-State.

USING PONGEE DRAPERY material, (at right) Mrs. Ellis fashioned it over old wire lamp shades, bought china bases and decorated both in similar floral motifs.



Berry Milkshake Tempts Anyone



BERRIES, either fresh, canned or frozen make an especially interesting flavor in a cool milk drink. There are blueberries which are bland and need a touch of tart lemon juice.

- 1 cup crushed berries
- 2 tablespoons lemon juice
- 1/2 cup sugar
- 6 cups cold milk
- 1 pint vanilla ice cream
- 3 tablespoons grated lemon rind
- few grains of salt

Mash berries, add sugar, salt, lemon rind and juice. Blend thoroly and add cold milk. Pour into cold glasses and top with vanilla ice cream. Garnish with a few berries. Serves 6.

Cabbage with Cheese

There's a delightful surprise in store if you have never tried adding shredded cheese to cooked cabbage.

- 4 cups cabbage
- 1 1/2 cups milk
- 3 tablespoons butter
- 3 tablespoons flour
- 1 teaspoon salt
- 1/2 cup shredded cheese

Cut the cabbage in thin wedges and place in boiling salted water. Boil uncovered for 5 to 7 minutes. Drain. While

the cabbage is cooking, make a white sauce of butter, flour and milk. Cook until thickened; add cheese to melt, reserving a small amount for a garnish after pouring the sauce over the well-drained cabbage.

Liver-Beef Loaf

- 1/2 pound liver
- 1 pound ground beef
- 2 slices bacon
- 1 medium onion
- 2 eggs
- 1 teaspoon salt
- dash of pepper
- 1/2 teaspoon sage or marjoram
- 1 cup dry bread crumbs
- 1 1/2 cups liquid
- 1/2 cup catsup or tomato soup

Cook liver slowly for 5 minutes in water to cover. Save the liquid. Put liver thru food chopper with bacon and onion. Add ground beef, beaten eggs, seasonings, crumbs and liquid. The latter may be the liquid in which the liver was cooked plus milk, tomato soup or juice. Mix well. Pour the catsup in a well-greased loaf pan. Pack meat mixture over the catsup. Bake in moderate oven, (350°) for 1 hour. Makes 8 generous servings.

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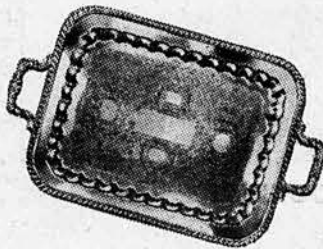
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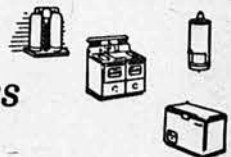


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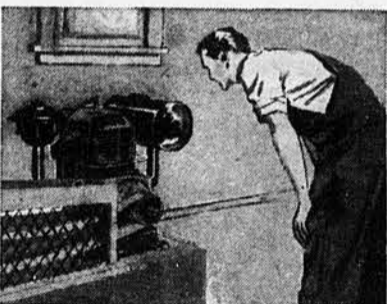
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KNOW YOUR BIRDS . . .

By L. B. CARSON

The Mallard Duck

*Flock after flock, they come and go
Impatient with spring, slow-melting
snow,
Searching for swamps, where they
love to dwell,
Yearning for home where we wish
them well.*



THERE ARE NO dull moments in the life of a mallard duck. The nesting site chosen by the brownish female is usually a well-concealed structure of grasses and down, but the 5 to 12 eggs are in constant danger from skunks, crows, coyotes and other predators. The male with his greenish head, white collar and rich chestnut breast, finds it difficult to be true to his mate and deserts her as soon as she starts to incubate the eggs. This leaves her with the job of guarding the nest, leading the young to the nearest water hole and protecting them until they can care for themselves.

While the young are attaining the mottled hue of their mother, growing flight feathers, dodging danger by diving or hiding in the reeds, the male is going into the eclipse plumage which may resemble his mate. During this period he sheds his wing feathers and cannot fly until they are renewed.

While the drake hides in the reeds for protection in this stage, the mother has protected her young, renewed her flight feathers and soon joins her offspring in short flights from one body of water to another.

A limited number of mallards nest locally. The remainder do not arrive from the north into this area before October 1 and remain until the latter part of April. Local food supply determines where they choose to spend their time. First to arrive are smaller and lighter in weight and hunters are inclined to refer to them as a different species from the larger, yellow-billed bird with orange legs which arrives later. Late arrivals bred farther north and are in better plumage and better condition.

Most mallards feeding the interior flyways use a funnel-shaped path, the western side of which passes thru Cen-

tral Alberta and the eastern side thru Eastern Ontario.

Mallards which are not so unfortunate as to become duck dinners soon become wary and spend much of their time on larger bodies of water, going to their feeding grounds at night, avoiding the blinds and decoys, on the alert for ever-present danger. Only the survivors can carry on the race. The fact that mallards continue to be one of our most common ducks, speaks well for their intelligence.

Their food is more than 90 per cent vegetable and consists of sedges, grasses, smartweeds and other vegetation which it finds in shallow water or on adjoining shores. Mallards often feed on acorns and glean waste grain in stubble fields. Wheat, corn, barley, rice and other grains are eaten with relish.

Mallards are fond of mosquitoes and spend much time eating the larvae and pupae, otherwise known as wiggle-tails. Francis H. Kortright in his excellent book, "The Ducks, Geese and Swans of North America," refers to a report of Dr. S. G. Dixon, in which he credited these birds with cleaning in 48 hours a pond which was badly infested with mosquito larvae. Doctor Dixon adds, "For some years I have been using ducks to keep down mosquitoes in swamps that would have been expensive to drain."

Mallards are easily tamed and no doubt are the ancestors of many of our domestic breeds. In fact some hunter might tell you he thought your tame ducks were mallards and strange as it seems, he might be right.

Our Readers Want to Know

In the pages of *Kansas Farmer* you mention some book on birds. It is a fine book. I would like to suggest a set of low-priced books by Frank G. Ashbrook, published by the Whitman Publishing Co., Racine, Wis. They sell in variety stores.—A Reader.

These are excellent books for the price. The same company also publishes other small nature guides such as "Trees of North America," by Donald Culross Peattie. Other inexpensive guides are the Reed books which are now back in print and can be obtained thru most stationery stores.

A flock of birds flew down by my window, then turned every leaf over quickly. They were brown and gray, had long tails and some had 2 white stripes over the head beginning at the beak, one on each side. We called them skunk birds. What is the proper name for this bird?—Mrs. C. C. Howard.

From your description, the visitors were probably white-crowned sparrows which winter in southern part of Kansas and Missouri, returning north to nest. The white-throated sparrow is similarly marked, but has a white throat to match the head markings and the males in spring have a touch of yellow near the beak in the white line over the eye. This is the first time we have heard these sparrows called "skunk birds." The bobolink sometimes is known as the "skunk blackbird," because he has white lines over his black back and in that respect resembles the skunk.

Barn swallows have come to our barn for the 8 years we have lived on this farm. Are they the same swallows which return each year? What is the average age of these birds to live?—Mrs. H. S. Johnson.

Your swallows could be the same birds, for birds do return to the same place from year to year. Bird banding records show swallows have this habit. They also could be the offspring of the original inhabitants. Banding and re-trapping is the only sure way to tell about this. As to the average age attained by this bird, one authority cites a record of a chimney swift which lived more than 10 years. The swallow has similar habits and probably lives just as long. This bird does not encounter some of the hazards which cause heavy mortality in the species which feed on or near the ground. The swallow and chimney swift catch their food while flying.

Do You Have A Question About Birds?

If you have a question about the birds, write us. All questions will be given to L. B. Carson, our writer on "Know Your Birds," and his answers will appear in a future issue. Whether you are a birder or an amateur, your questions will be given replies. Write to Florence McKinney, Home Editor, *Kansas Farmer*, Topeka.

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Irrigation Means Higher Yields

(Continued from Page 1)

systems. You have to buy one big enough to do the job intended or it's no good," he says. "If you're going to buy one you should talk to several companies and get the Kansas State College Extension engineering department to help you figure on what you will need," says Mr. Nehrig. "Don't buy on the basis of low first cost."

These Ideas May Help You

We talked to several farmers operating sprinkler systems in North Central Kansas and found their experiences and ideas would prove of value to farmers considering going into this type of irrigation.

"You can expect a 30- to 50-bushel-an-acre increase in corn production in normal years with irrigation plus other good practices, says Mr. Nehrig. He uses alfalfa in the rotation ahead of corn and applies 80 pounds of superphosphate and 56 pounds of actual nitrogen an acre in the form of anhydrous ammonia.

"If you're going to irrigate corn," says Nehrig, "one of your big problems is getting a system that has nozzles high enough to throw water up above shoulder-high plants, and the other big problem is moving the pipe thru corn plants and over wet listed ground."

Mr. Nehrig has met the first problem by buying a high-pressure system having nozzles that will throw water in more than a 200-foot circle. Nozzles are raised above the lateral to sufficient height to clear corn plants.

The problem of moving pipes thru the cornfield also has been solved. Mr. Nehrig seeded brome grass strips 14-feet wide down thru his fields. These strips are spaced every 62 corn rows, or 260 feet apart. Laterals are laid along these brome strips and can be

hauled in with a tractor and flatbed wagons instead of being carried in by hand. "We irrigate all day, let the water soak in all night, then move our pipe the first thing next morning," explains Mr. Nehrig. "By morning the brome strips are dry enough to drive onto with tractor and wagons. Pipe is loaded on wagons and changed to another brome strip. It is almost impossible to carry 6-inch lateral pipe by hand thru a cornfield when plants are shoulder-high."

One thing Mr. Nehrig has discovered is with prevailing winds in the south and southwest during summer, it would be best to have fields laid out so laterals could be put east and west rather than north and south. "You get better distribution of water if your laterals are crosswise to the prevailing winds," he says.

Butane gas is used for pumping fuel on the Nehrig farm. Costs for fuel run about \$1 an acre for 2 inches of water.

Irrigates Corn and Alfalfa

This year William Edwards, also of Marshall county, is irrigating 50 acres of alfalfa and 70 acres of corn with the system he has been using since 1948.

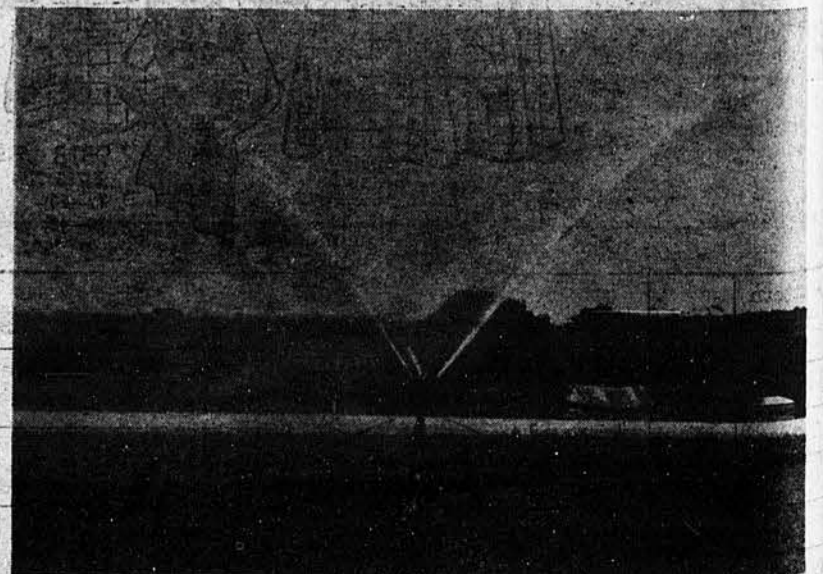
"I like to run 2 quarter mile laterals," says Mr. Edwards. "In this way one is operating while I am moving the other so I get continuous operation on the system."

His system has an 8-inch main and he uses 1,350 feet of main during his operations. Each quarter mile lateral contains 32 lengths of 6-inch pipe, 16 lengths of 5-inch pipe and 16 lengths of 4-inch pipe. Sprinkler outlets are 40 feet apart. "Three men can move a quarter mile line in a cornfield in one hour and 15 minutes by actual time

(Continued on Page 33)



BROME GRASS STRIPS in cornfield on Arnold Nehrig farm, Marshall county, make moving pipe a job that can be done with tractor and wagon. Here Mr. Nehrig, right, shows a brome strip to Ed Hedstrom, county agent.



A HIGH PRESSURE system like this one costs more but works better in corn and doesn't have to be moved as often, owner says. Farmers disagree on on size and spacing of nozzles, however.

ests on our ranch," says Mr. Edwards, "but it is real work. We use a 3-hour set that produces 2 inches of water under 25 pounds pressure."

In 1949, while his corn yields were not too high, Mr. Edwards had a good chance to see what part water played. Where he irrigated and applied 50 pounds of actual nitrogen an acre he got 65 bushels an acre. Where he applied the nitrogen but didn't irrigate he got 35-bushel corn. Where he didn't use either water or nitrogen his corn made only 18 bushels. In 1952 he irrigated ahead of his last cutting of alfalfa and says: "I got more hay off the irrigated cutting than any 2 other cuttings that year."

"The most profitable way to irrigate is to concentrate on corn," thinks Mr. Edwards. "Plant heavy, fertilize heavy and water well and you should be able to figure on raising 80 to 100 bushels an acre most years," he says. "It is better to water a small acreage well than to half irrigate a large acreage."

Propane gas is used for fuel on the Edwards system, and pumping costs run about 19 cents an hour.

"There is a trend toward smaller sprinklers and longer sets," says Mr. Edwards, "on the theory that running longer sets at a slower rate of application will insure better absorption of water. I believe it is better to get over your field in the least time possible. I can remember one summer when it took me a week to get across my cornfield. The corn I got to last already was hurt and never did as well as it would have had I got to it sooner."

Difference of Opinion

Mr. Edwards does not agree with Mr. Nehrig on size of sprinklers. "We have a lot of wind here and the smaller sprinklers do a better job in the wind than the extreme high-pressure type," he says.

Harry Hoesli, of Ottawa county, has been doing some sprinkler irrigation for 3 years now and says: "Humus is the key to results with irrigation. If you irrigate you have to keep up the humus in your soil to a high level to absorb the water." In 1951, he recalls, he plowed under a heavy crop of rye ahead of corn and got 100-bushel corn, better than he has been able to get any other year.

"If you plan on an irrigation system be sure you have enough help so you can irrigate at the right time," says Mr. Hoesli. "If you are tied up with other things when you should be irrigating, you won't be getting the most efficient use of your system."

This view is shared by Vincent Pieschl and son, also of Ottawa county. The Pieschl family is irrigating a 22-acre field of Atlas this year and plans to irrigate rye for pasture this fall. "We irrigated some rye pasture last year and it made an unbelievable amount of grazing," says Mr. Pieschl. Fifty-five acres of corn on the Pieschl farm also are under irrigation. Fuel for pumping costs has been running less than \$1.50 an acre, Mr. Pieschl reports.

Protect Pumping Station

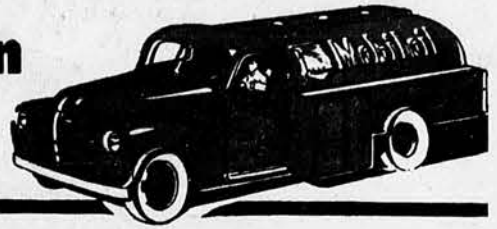
If you are pumping from a stream, those with system say, you have to consider the problem of your pumping station being flooded. Mr. Nehrig has built a platform above flood stage and has his motor mounted on this platform. Mr. Edwards put his motor and pump on a float in the river, with the float anchored by heavy cables.

In Republic county sprinklers are just getting started this year. Fred Soper had the honor of getting the first system and already is irrigating 100 acres. He figures his initial costs at \$60 an acre, but believes increased yields will repay cost of installation during the first 2 or 3 years.

The reason Mr. Soper took to sprinklers rather than ditch irrigation is the same given by most farmers we talked to. With sprinkler irrigation you can start right out irrigating immediately without any land preparation.

Mr. Nehrig found, however, that it paid to improve drainage on low spots in his fields. These problems can be taken care of as they arise, farmers say.

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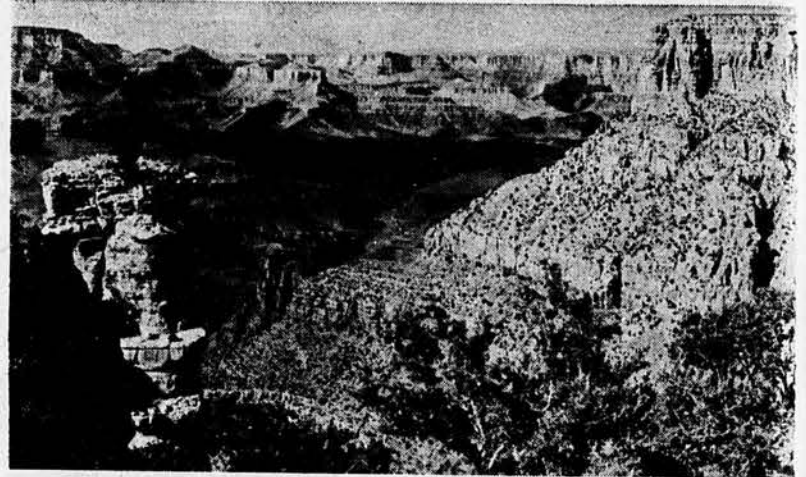
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Article No. 8

We Are Seeing America—This Time The Grand Canyon of Arizona

By FRANCES R. WILLIAMS



GRAND CANYON is beautiful from any spot, but particularly so from a high ledge.

THEODORE ROOSEVELT once said of the Grand Canyon, "It is beyond comparison and beyond description, the one great sight every American should see." John Burroughs described it as "The world's most powerful spectacle, ever changing, alive with a million moods."

We heard various comments from those about us during the 3 days we spent viewing the Grand Canyon: "Golly, what a gully"; "Ain't she keen and terrific?" The Texan drawled, "Shucks, we have things like that dawn in Texas, where I come from, we'll maybe not quite so big, but jest as purty." And the folks who complained about the weather, "Yes, the scenery is nice," pointing to the great chasm which left us ga-ga, "but the weather is too hot in the daytime, and we freeze at night. We much prefer the east sea coast."

An Awe-inspiring View

Then there was the man from Oregon, who like us had ventured out on the narrow ledge on top of the formation called Angels Window (North Rim), the others of his party had lost their nerve. One of his group called out, "Hey, Joe, you can spit a whole mile." Joe replied, "Can't spit. My mouth's too dry," then looking down into the depths below him "looks like 100,000 miles down to earth." Like Joe, our mouth was dry, too.

We had our first sight of Grand Canyon from Bright Angel Point on

the North Rim. It was late afternoon when we followed the trail that leads far out to the very edge of space. The scene that met our eyes defies description; the grandeur leaves one speechless. You have the feeling of the infinite power of the Great Creator; a constantly changing bit of eternity.

Since the North Rim is 1,200 feet higher than the South Rim, one looks down on the vast promontories, which form the background of the panorama from the opposite side. One experienced a closeness to the canyon that does not exist elsewhere. Purple shadows mingled with red, pink, orange and saffron of the canyon walls. Looking down from this point, we could only guess the location of the turbulent Colorado river which during the ages had worn its course down thru a mile of solid rock.

The North Rim is open only during summer, because the high elevation makes for extreme cold and snow during winter. The Grand Canyon Lodge located on the Point, a long arm extending out into the canyon, commands a superb view from the terrace and from the great picture window of the lodge. At the time of our visit the lodge had closed, the ranger naturalists had departed and portions of the spacious public camp ground, located amid tall pine trees, were closed.

The next morning we followed the excellent highway which leads to several scenic viewpoints, thru dense

(Continued on Page 35)

HEAD FUTURE FARMERS ASSOCIATION



NEWLY-ELECTED OFFICERS of Kansas Association of Future Farmers of America. Left to right, Sam H. Peppiatt, Ellsworth, reporter; Ray Zimmerman, Olathe, secretary; Gilmore Dahl, Effingham, vice-president; Bob Watkins, Alma, treasurer; Nelson D. Galle, Moundridge, president; Frances Grillot, Parsons, sentinel.

virgin stands of pine, fir, spruce and quaking aspen. The mule deer are found in great numbers on the Kaibab plateau and of special interest is the Kaibab squirrel, with long, handsome ear tufts and a conspicuous white tail, found only in the North Rim country.

The North Rim affords one a better view of the surrounding country, the mysterious Painted Desert, and far in the distance, the dim blue San Francisco peaks, some 6,000 feet above the level tableland.

Late that afternoon we returned to Jacobs lake, where we had turned off Highway No. 89 for the side trip to the North Rim and took the trip across country to the South Rim, 15 miles across the canyon as the crow flies, but 200 miles by motorcar. The highway follows a valley rimmed by the Vermillion Cliffs to Marble Canyon, where the Navajo bridge crosses the Colorado. The steel spans of the bridge are 487 feet above the water. The highway passes thru the interesting Navajo country to join the South Rim highway at Cameron.

See Canyon Many Times

We saw the Grand Canyon from both Rims, from every possible viewpoint, during all hours of the day, morning, noon, afternoon and even by moonlight. We spent our second night at the Desert View camp ground on the east edge of the South Rim Park boundary. Here, the rays of the morning sun slanted lengthwise from the Painted Desert to bring into relief the great promontories on the opposite rim, outlined in golden light. Later the noontime sun blended the color and softened the contrasts; in late afternoon the formations blaze with glorious reds, golds, and purples against the blue background of the side canyons. By moonlight, a thousand spectral forms were projected from the gloomy depths, weird, cold and mysterious.

The South Rim being lower in elevation is also more arid than the north. Utah juniper and pinyon pines forest the rim. It has been suggested the visitor get his first view of the canyon from Yavapai Point. Here, one is treated to a good view of the rushing waters of the Colorado, 4,500 feet below and even thru the telescope, the stream does not appear swift and dangerous. The Colorado river is 2,000 miles long, and in the Grand Canyon area averages 300 feet in width with a varying depth of 12 to 45 feet, flowing at a speed of 2 1/2 to 10 miles per hour.

Many attempts have been made to explore the Colorado river. White man first saw this wonder of nature in 1540, when the Spanish conquistadors of Coronado's army came upon it in their search for gold. Trapper James Pattie saw the canyon in 1826 and considered it a barrier in his search for furs. In 1857, Lieutenant Ives, altho admitting the fascination of the great chasm, declared his party would probably be the last white party to visit the place. While parts of the canyon had been explored, it was not until 1896 when a party led by Major J. W. Powell succeeded in traversing the entire length of the river.

Grand Canyon of the Colorado is 217 miles long, 4 to 18 miles wide and one mile deep. About 105 miles of the most spectacular portion are included in the boundaries of the National Park established in 1919 and in the Grand Canyon National Monument established in 1932.

The canyon is not only a course in geology, but botany and archeology as well. Four distinct zones of plant life

are found at different elevations, ranging from cactus types at riverbed level to blue spruce of the North Rim. For those interested in the field of archeology, 500 ruins of ancient Indian pueblos have been discovered in the different canyons and on the rims.

Tells Historic Story

The great gash carved by the mighty Colorado into the depths of the earth opens up for the geologist the story of how the earth was formed. The oldest rocks are pointed out by powerful telescopes at Yavapai Point, and the geological story is related twice daily by the park rangers. The river and the elements have cut away the softer rock and soil leaving great formations that have been named, "Wotan's Throne," "Isis Temple" and many others. One looks down thru a tremendous space of time, glimpsing a record of vast ages, measured in hundreds of millions of years. At the bottom of the chasm are found rocks formed during the oldest era known. In these no evidence of life has been found. Other layers and series contain the earliest traces of plant life and those of succeeding eras have preserved traces of primitive animals of many types. Rocks of the fourth great era, the age of dinosaurs, lend color to the Painted Desert, and the sheer walls of Utah's Zion Canyon, while to the north, Bryce boasts some of the most recently formed rocks of the earth, those of the fifth and last era, the age of mammals.

You may enjoy the scenic views of either rim seated on the porch of hotel or lodge, or you may take the strenuous method of hiking down into the canyon and to the river by foot. A few hardy souls take it the hard way, but the majority of those who go down, prefer to take the trip on muleback.

Trail Trips Are Fun

The second trail, the Kaibab, only one from rim to rim, has its start some distance east of Grand Canyon Village, dropping down by switchbacks and tunnels thru 100 feet of granite to the Kaibab suspension bridge which spans the river, then to Phantom ranch and on to North Rim. To Phantom Ranch is a 2-day trip. Cabins are provided where one may spend the night. Phantom Ranch is the stopping place for pack trains and the center of activity of the canyon floor. All material used in buildings and all supplies for the ranch, food and fuel are transported down from the rim by pack mule.

Hotels, lodges, cabins, cafeterias take care of the crowds of visitors who visit South Rim, open the year round, and a spacious free public camp ground is provided for those who carry camping equipment.

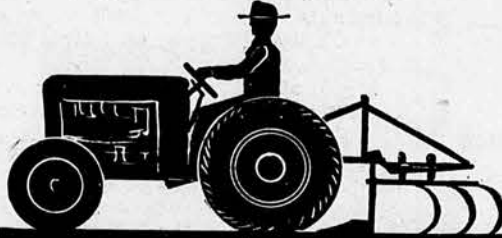
Various forms of amusement and entertainment are provided for the visitor. Displays of Indian arts; the Wayside Museum of Archeology containing Indian artifacts is open in summer. Illustrated talks and a great variety of entertainment are available at the lodge. The Hopi dancers in costume perform daily at Hopi House. Caravans escorted by rangers visit points of interest. Twice each day, an illustrated lecture with colored slides describe the 2 boat trips thru the canyons of the Green and Colorado rivers by 2 brothers, Emery and Ellsworth Kolb. It was a thrilling, exciting experience, gives one a close-up of the dangerous, turbulent river that has been traversed by a very few brave, hardy men . . . We have seen many of the wonders of this country; Grand Canyon in Arizona is one of them.

COMING, NEXT ISSUE . . .

We asked members of the 1952 class of Master Farm Homemakers for their favorite old-time recipes and we are ready to give them to you in the next issue of *Kansas Farmer*. Included will be everything for a complete meal.

Also of interest to bird lovers will be the story about the mocking bird by L. B. Carson, our bird writer. This will be followed as usual by questions and answers from readers. Many folks have written us to say they are making a scrapbook of the bird stories. Look for these 2 stories in your *Kansas Farmer* for August 15.

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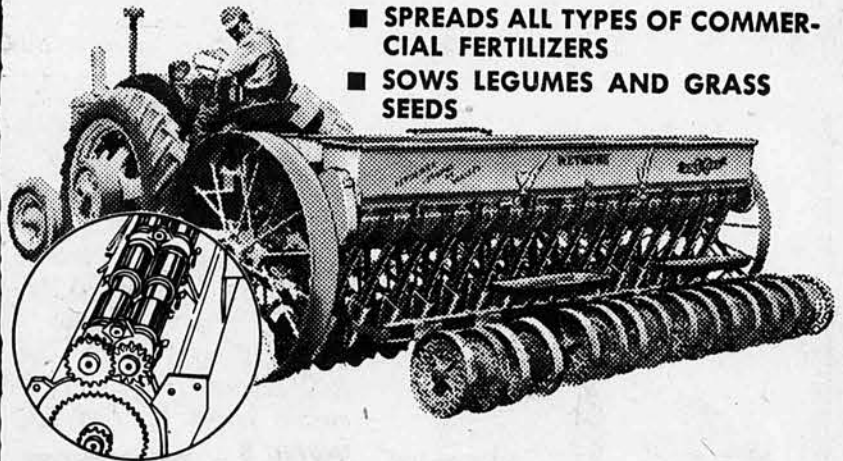
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Ready or Dry Weather

(Continued from Page 4)

but it doesn't do any good to build them so small they dry up when really needed. I have 4 ponds now on which the dams will average 5,000 yards of earth. They really pay off in this kind of weather."

Depth of ponds is especially important. West of No. 81 highway, the Soil Conservation Service recommends 10 feet but majority are not built that deep. Discussing this point, Fred Sykes, state conservationist, says: "In 1952 and so far in the 1953 season we have had about 9 feet of evaporation in farm ponds. Only the deepest ones still have water unless they were lucky enough to be in heavy local shower areas. We need to give more thought to deepening farm ponds."

In Jewell county we found a recently completed pond on Debey Brothers farm that just fits the bill. It is constructed with a scooped-out area so the actual pool will cover only a small area, but will be 12 to 15 feet deep. Where possible to build, this type cuts down evaporation, covers less grass.

Lovegrass Was a Lifesaver

Walter Grauerholz, Smith county, has 24 acres of sand lovegrass that proved a lifesaver for his cattle in the dry grazing season of 1952, and again this summer when native grasses dried up on his farm.

The field of sand lovegrass was seeded 4 years ago in 40-inch rows with a wheat drill. It was allowed to go to seed the second year and a seed crop was harvested. The third year it was pastured, is doing well again this year.

"This particular field wouldn't grow anything before I put it to sand lovegrass," says Mr. Grauerholz, "so what I once considered wasteland is now pulling me thru on my grazing program."

He uses brome grass in spring and fall for his cattle and says sand lovegrass comes on just about the time his brome goes dormant and stays until brome comes back in fall.

Here is the amazing part of Mr. Grauerholz's experience. In 1952 he got 3 months grazing for 46 head of steers on the 24 acres of sand lovegrass. This summer, on July 6, he had 39 head of steers on the 24 acres. The secret is he held this field in reserve until June 20, so when drouth hit he was ready.

There was another angle in 1952, too. This field of sand lovegrass helped

Mr. Grauerholz get his cattle on the market earlier than he could have without it, thus hitting a higher market during declining cattle prices.

Now, let's take a look at the farming program of George Wierenga, Jewell county. He has a 1,300-acre farm set up so 4 acres are carrying one beef animal on a year-around basis. The farm has 60 acres in sorgo for silage and there is a 200-ton supply on hand that already has been carried over 2 years. This will be built up to 400 or 500 tons at the first opportunity. Twenty acres are in rye for a 10-months pasture program for hogs, 350 acres are in brome, alfalfa and clover mixtures altho some of this is just in process of becoming established, and 870 acres are in native grass.

Livestock consists of 110 head of Hereford cows with calves, 100 yearlings held over for deferred feeding and 25 heifers raised as replacements.

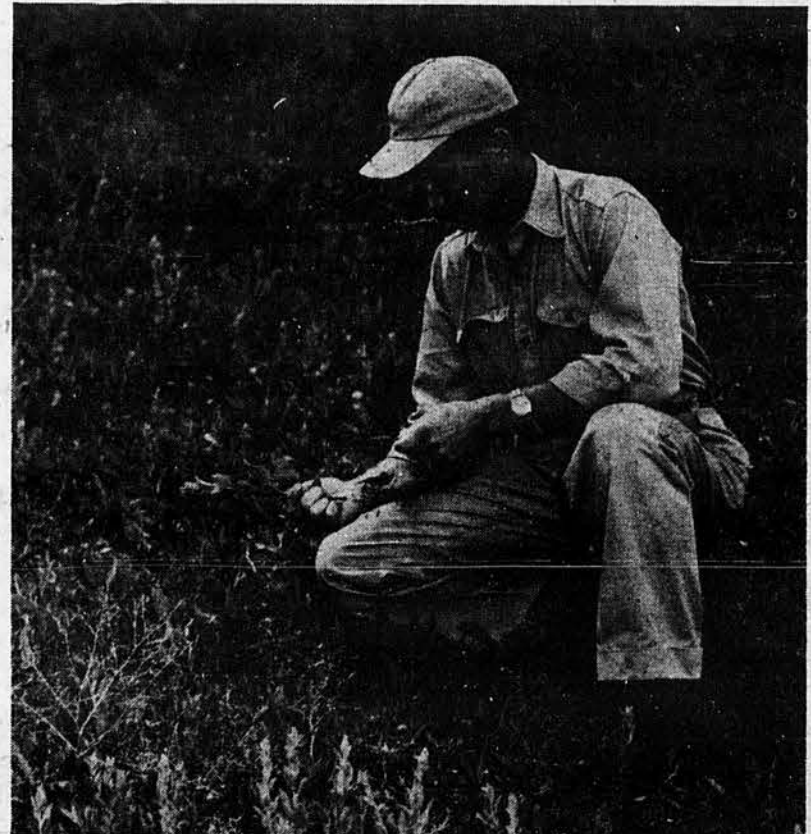
Native Grass Held in Reserve

In the spring of 1953 the Wierenga cattle were on brome-alfalfa pasture. Native grass was held in reserve until late June. When we called on Mr. Wierenga July 6 we found his cows were fat and sleek and in excellent milk. Grass in the native pasture was lush and the calves were doing exceptionally well. The cows were in good milk, said Mr. Wierenga, because of the brome-alfalfa pasture they got last spring.

All grain for both hogs and cattle is purchased. No wheat or corn are grown on the Wierenga farm. Everything is pointed toward meat production.

Just as he had pasture and silage reserves, Mr. Wierenga also had water reserves. We saw a pond on one quarter section of pasture that had enough water to finish this season, and to carry his cattle another full season without any additional rain. The last appreciable runoff in the pasture occurred in April, 1952. Cattle in several nearby pastures were getting water hauled from 20 miles away.

Credit for his favorable grass situation is given by Mr. Wierenga to another farmer, Henry Ahrens, and to Clyde Reed, Jewell county work unit conservationist. "They proved what brome grass will do in this county and I'm just following their recommendations," says Mr. Wierenga. "I don't feel I yet have maximum use of my land but am getting my grass-legume mixtures established as fast as I can."




MOSTLY WEEDS and no cattle were found by Freeman Biery, Jewell county agent, when he examined this pasture that failed when drouth hit. Good management might have changed the story.

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Don Goes to Lebanon and Syria

... Along the road to the oldest city of the world we saw grain harvested in ancient ways

Remember, Kansas Farmer promised to bring you letters from 2 of our Kansas 4-H'ers who are spending some time on farms overseas this year. Here is the second letter from Don Weixelman, of Louisville, in Pottawatomie county, who has gone to Lebanon and Syria.



DON WEIXELMAN
Louisville, Pottawatomie County

DEAR MR. GILKESON: When I wrote to Kansas Farmer for the July 4, 1953 issue, we were still in New York. The 19 IFYE's going to Mediterranean region sailed from New York for Naples, June 12, aboard the Italian Liner Conte Sarnano. We continued our orientation on board ship, having meetings in the mornings and afternoons and vesper services at night. We had no supervision for the programs except for the chairman we elected to lead each discussion. The boat also served as an orientation in that we got accustomed to a foreign language and living out of suitcase for we were traveling dormitory style.

The very interesting trip ended at Naples, June 22. Here the group of 19 split up and prepared to go to their individual countries.

So We Toured Italy

Delegates to Lebanon and Syria, Cecil Spooner from Georgia, Leland Loggiss from Louisiana and myself had to wait 6 days to catch a boat to Beirut, Lebanon. To help pass the time we toured around Italy and saw some tourist spots such as the Island of Capri, Sorrento, and the ruins of Pompeii. Pompeii is an old Roman city built about 500 B.C. It was destroyed by earthquakes and volcanoes about 79 B.C. However, the ruins of the city show it was very modern. One of the most outstanding facts was the lead water pipe lines which supplied the city with water.

Well, that didn't take up all of our time so we hopped a train into Rome. Here we saw the Catacombs, the Colosseum, Julius Caesar's house, St. Peter's Cathedral and the Pope. All were very interesting but were not part of the IFYE program so paid our own expenses. We left Rome June 28 to catch the Enotris, the ship that would carry us to Beirut.

While in Italy we noticed a few farming methods. It was harvest time and farmers were cutting wheat with anything from a cradle to a combine. Fields of wheat we saw ranged from a patch 40 by 40 feet to 40 acres. We also noticed the very intensive type of farming. In Italy land is valuable and scarce. They terrace very steep mountains and grow lemon trees, and fence rows grow some crop or other. They graze water buffalo along the highways and railroads to eat the grass growing there. After that very interesting stay the 19 of us found ourselves again aboard ship. It took 5 days to get to Beirut, arriving there July 2.

Mr. Sheff, minister of agriculture of Lebanon, Murl McDonald, Extension Adviser, for Point-4, and E. R. Raymond, agriculture attache for Syria met us at the pier. We were then escorted to the Point-4 building, where we met

Hallis Peter, county director of Point-4 in Lebanon.

Next day we were still meeting people we would be working with, such as Earl Rambo, agriculture engineer specialist; Clyde McKee, chief agriculture specialist under Point-4; Alfred Bey Chaumoun, director general of agriculture in Lebanon, and the American ambassador, Minor. Each of these men gave us a short briefing about agriculture and the IFYE program all of which I felt were extremely important.

We Saw Refugee Camps

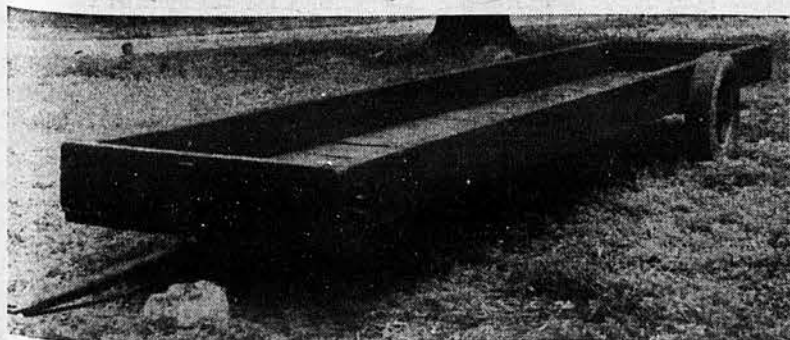
However, we were in Lebanon only 2 days before we went to Syria. On the mountain road that leads from Beirut to the oldest city of the world, Damascus, we saw many things of interest such as refugee camps of the Arabs who were driven out of Israel, and people harvesting grain with the same methods that were used in the time of Christ. Cutting the wheat with the blade and hauling it in on the back of a donkey or camel. Also, we saw large flocks of goats. Goats are used here because they utilize a wider variety of diet more efficiently. When we reached the oldest city of the world we went to meet Akron Bey Rikabi, director general of agriculture, and U. S. Ambassador Moore.

Since the day was the 4th of July, employees of the American embassy in Syria had a picnic in the afternoon. About 60 Americans turned out for the picnic and ball game.

That completed our orientation for the 2 countries. We were assigned to the Deir-er-zor plain by Mr. Raymond. However, we don't know which farmer we will be staying with. We leave for the wheat plain early tomorrow morning and after a 2-day drive we find it in Northeastern Syria.

On the Deir-er-zor plain wheat is cut much the same way as it is in Western Kansas. I will be able to tell you more after I see it myself. Until then ... Sincerely, Don Weixelman.

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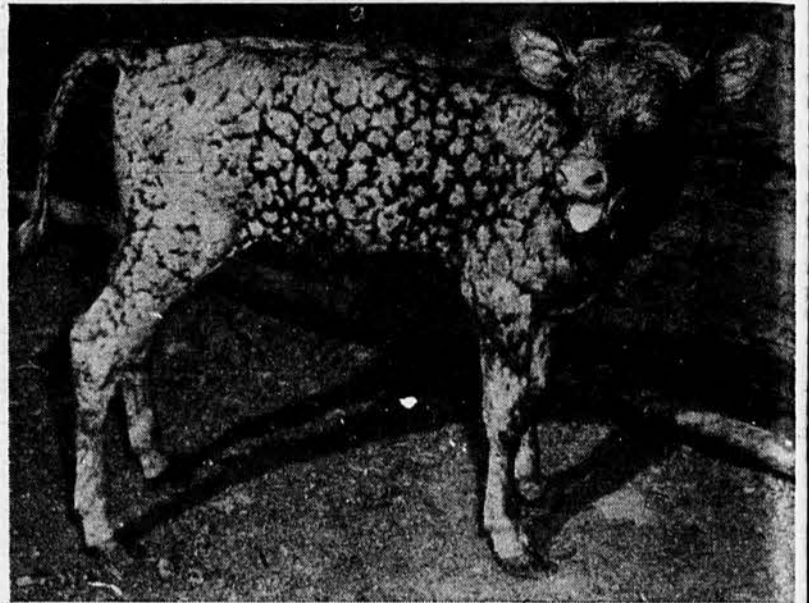
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KF 853

Kansas-born "Calf-deer" Causes Excitement and Discussions



SMOKY, born on a Kansas farm in Jewell county, looks like a deer, with her spotted markings, deer-like legs, hoofs, tail, hind quarter.



Pictures courtesy Harold Lyle, Topeka Daily Capital

SMOKY has twice-daily feedings from her Shorthorn mother, one of many Jewell county dairy animals who have been seen drinking and running with deer. T. H. Fulton, who farms near Webber, has found himself in the national spotlight with his "dow."

AN UNUSUAL ANIMAL was born in Kansas June 17 that has brought national attention to the farm of Tom Fulton, near Webber, in Jewell county. A heifer calf was born to a 14-month-old Shorthorn heifer, with appearance of a cow and a deer. It is marked like a fawn, runs deer-like, has deer-shaped hoofs. Weighing 15 pounds at birth, and blind since, the "dow" is definitely marked like a fawn—white spots on fawn color.

"It's too fast for a calf," says Mr. Fulton. When he asked a local veterinarian to look at the animal he couldn't tell the farmer what it was, but said deers and cows couldn't interbreed successfully. Agricultural experts have stated such a cross is genetically impossible, altho a deer and a cow might

mate without producing any offspring.

Many farmers in Mr. Fulton's community report many deer in the area and often are seen drinking with cattle. Dr. A. M. Guhl, acting chairman of the Kansas State College zoology department, said he was highly skeptical but it could be an extremely rare case.

The unusual animal has been named "Smoky," is drawing much interest among visitors to the Fulton farm. A Hastings Nebr., man offered to buy the "dow."

Genetically, cows and deer are of families—the Bovidae and Cervidae. Successful breeding between members of the families is "99 per cent impossible," says Dr. E. R. Hall, head of University of Kansas zoology department, but "nothing is entirely impossible naturally."

WHAT CAUSES "STRINGY BEEF"

Many folks who have eaten long, stringy beef at the dinner table wonder what causes this "fibrous string" condition. Ralph P. Soule, Jr., assistant meats professor at Kansas State College, says the condition is caused in several ways.

When meat is boiled, the physical structure of meat breaks down and the cooked product is "stringy" or "shredded." Meat should be simmered in considerable water just below the boiling point. When canning meat, this "stringy" condition has been a headache to meat processors, same as "mushiness" is to vegetable processors.

Another cause is old cow beef—7 to 8 years old. As the animal grows older, there is more and more connective tissue which binds together muscle fibers. Cow meat is less tender, therefore. Moist heat is required to break down this connective tissue to make meat more tender. The forequarter of beef (minus the wholesale rib cut) is more "stringy" than the hindquarter, after cooking.

Variations in age and degree of fatness and texture have a direct bearing on physical structure of meat tissue after cooking. No meat is ever tough, just less tender.

Administration Moves Promptly To Ease Problems of Farmers

By CLIF STRATTON, Kansas Farmer's National Affairs Editor

IN FOUR DECISIVE actions recently the Eisenhower Administration indicated plainly it does not intend resort to drastic major operations (to cure or kill the patient) to remedy the economic and political consequences of government intervention of the last two decades.

1. Opposed as he is to permanent farm subsidy programs, Secretary of Agriculture Ezra T. Benson continued the 90 per cent parity price support program for another year. This in face of the fact this same program had been largely instrumental in butter "pricing" itself out of the market. Benson felt that (A) by law he had to continue the 90 per cent supports for commodities dairymen had to buy to feed their cows; (B) Government having stepped put the dairy industry in the line, the industry is entitled to another year to work out a program to save the industry; (C) to attempt reversing the engine at the speed attained thru 20-years' momentum could crash the entire economy.

2. When Treasury and Federal Reserve policies—used to end the "cheap money" program that has contributed greatly to the "inflation tax" of nearly 50 cents on each dollar of income, savings and financial investments—threatened a too-sharp deflation instead of merely working to curb inflation, Administration acted promptly. Federal Reserve lowered its bank reserve requirements, thereby sending some 6 billion dollars to the central money supply.

Make Disaster Loans

3. When Southwest drouth, on top of surplus millions of cattle on pasture and on feed, threatened ruin for the beef cattle industry, the Administration moved promptly.

President Eisenhower proclaimed certain counties in Kansas, Colorado, Oklahoma, Texas, New Mexico, Arkansas and Missouri "disaster areas," made immediately available 8 million dollars "disaster" loans to bona fide cattlemen in distress—where local committees recommended such loans could pull them thru. He also asked Congress, and from Congress, authority for using multiple millions to meet the combined emergency. Governors of States involved named the "disaster" counties; some of them may have been unduly enthusiastic in deciding the extent of drouth.

Railroads co-operated with reduced rates for supplies to these areas. Government, thru Commodity Credit Corporation, put on a beef purchase program calculated to take some 800,000 head of cattle off the market. These moves had a steadying effect on prices; encouraging immediate effect for cattlemen and farmers generally. Admittedly they do not solve permanently the problem of surpluses. But they give breathing space and time.

New Wheat Bill

4. Faced with either wheat marketing quotas (by two-thirds vote of wheat farmers in a referendum) or cutting the support price in two if these are voted down, the Administration moved promptly to ease the blow. With White House backing, Rep. Clifford Hope of Kansas, chairman House Agriculture Committee, brought in a bill to "up" the national wheat acreage allotment (under marketing quotas) from 55 million acres. Under then existing law, national wheat acreage would have cut from 78 million acres average of last few years to the 55 million figure. The Hope bill as passed—and signed by President Eisenhower the same day—like the national allotment 62 million acres. Hope had tried for 66 million acres, but Senate knocked the figure down. The Hope bill—a temporary expedient; lasts one year—also makes penalty for violating marketing

quotas 45 per cent of parity on May 1 of marketing year; it had been 15 cents a bushel.

Hope also had tried to get farms handling less than 25 acres of wheat or producing less than 400 bushels exempt from the marketing quota provision. The Senate knocked that out. The exemption continues at 15 acres or 200 bushels.

Secretary Benson also ruled that acreage allotments and quota penalties do not apply to wheat planted for pasturage, unless this wheat is allowed to reach the grain stage.

Washington observers, including such reliable ones as Kiplinger's (who writes primarily for farm trade) and Wayne Darrow (who gets the "inside" on Dofa sentiment), see developments of past weeks putting Government further "in," rather than "out" of the farming business, Agriculture.

What Observers See

On the whole, these observers see emphasis in government, with backing from "trade," and from farmers and farm organizations—at least in the immediate future along these lines:

1. More government aid for farmers; not less.
2. Government price supports bolstered.
3. Government aid in getting farmers to provide more farm storage space; and in providing more badly-needed elevator storage facilities.
4. Government will add to its storage capacity.
5. Government will encourage expanded exports; give-away programs not barred.
6. Government will subsidize feed and other aid to drouth and flood victims.

7. Government will utilize acreage allotments and marketing quotas to hold down 1954 crops.

Incidentally, the Administration's drouth-relief program, for which Congress has made an initial appropriation of another 16 million dollars, (Ike later asked Congress for 150 million dollars) covers more territory than just areas stricken with disasters due to Nature. It includes authority for the Secretary of Agriculture to make "economic" disaster loans—which would include low prices as a form of disaster entitling to government loans.

Here are Provisions

Some specific provisions: (1) Disaster loans as defined at 3 per cent interest. (2) Special livestock loans at 5 per cent interest—these not limited to disaster areas. (3) Cut-rate prices on CCC stocks of feed, which have been limited to grains and cottonseed meal.

Meanwhile, Secretary Benson has the task of coming up next session of Congress with a "new" or "revised" program, calculated to give maximum protection to agriculture with a minimum of government direct aid and government controls.

Reasons for the Eisenhower Administration's withdrawal—temporarily at least—from its advanced positions in favor of less instead of more government in agriculture, are not difficult to see.

Storm signals—reminiscent of the late Twenties; just preceding the crash of 1929 and following depression of the Thirties—undoubtedly are flying.

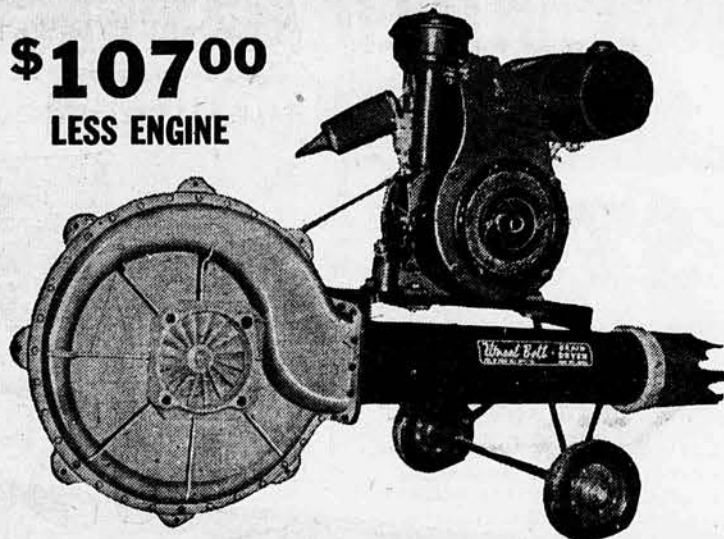
Farm prices have been dropping for more than 18 months. Bottom dropped out of cattle market in last 8 months; showing sporadic signs of recovering slightly.

Farmers are developing more "cautious" buying habits.

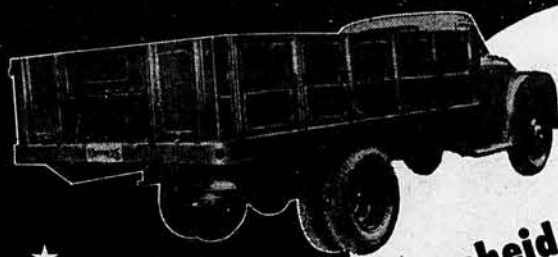
Historically, slackening in farmer buying, if prolonged, has spelled a "slowdown" in business all over the country.

Historically, also, there is not recorded instance of a "perpetual" boom.

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Wheat Belt: GRAIN DRYER
MFG. BY WHEAT BELT SUPPLY CO. DODGE CITY, KANSAS



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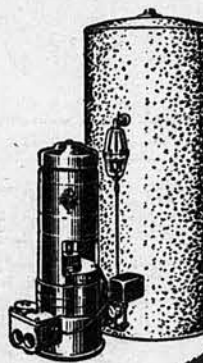


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Jacuzzi DEEPRIME JET
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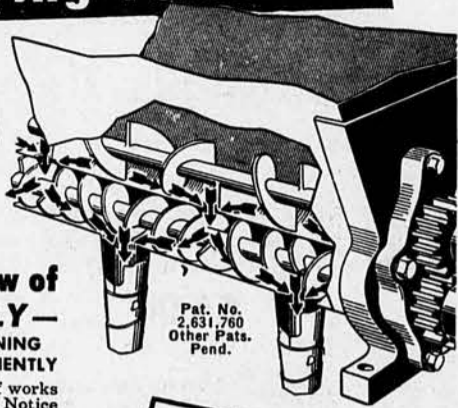
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FERTILIZER ATTACHMENTS for GRAIN DRILLS

NOW! Meter the Flow of Fertilizer EXACTLY—

- PREVENT SKIMPING OR BURNING
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Investigate how the Ottawa Chief works and you'll settle for nothing less. Notice (in diagram) there are two, not one, positive feed augers. The lower opposing auger makes the big difference. It controls the distribution because it precisely, automatically measures and forces pulverized fertilizer equally through all distribution tubes. Rough ground or smooth, fast speeds or slow, the exact amount is always automatically applied. By merely interchanging special sprockets that drive the augers, you can positively set the rate of flow to meet application requirements.



16 Row End Wheel Unit (Illustrated)

Ottawa Farm Chief Attachments for Grain Drills applies your fertilizer automatically as you drill. Feed rates can be varied to suit requirements. Available to fit end wheel drills, press drills or pony drills. Attachments Also for Cultivators, Planters, Lister-Planters.

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KEEP YOUR PICKER NEW! REPLACE WORN ROLLERS WITH MINNESOTA Husking Rollers

(RUBBER and CORD)

WE HAVE ROLLERS FOR EVERY PICKER including:



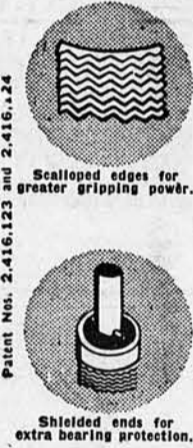
IHC 24 ALLIS CHALMERS
See our new rollers for IHC, 14P and 24 and Allis Chalmers 1 and 2 row Pickers.

All Minnesota's give you these extra features:

- All weather operation without compounds.
- Virtually no clogging and cleaner corn.
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- Clean as hand husking—minimum of shelling.
- Does a superior job husking rough hybrid corn.

See Your Implement Dealer Today! Or Write to

GRAM & WESTERGAARD, Inc.
4014 North Rockwell Street Dept. KA Chicago 18, Illinois



Scalloped edges for greater gripping power.

Shielded ends for extra bearing protection.

SAVE FEED with DAISY HEATED HOG WATERERS



Save up to 10% of your feed for only pennies a day! Provide your hogs with fresh, warm water all winter and conserve animal heat with Daisy Heated Hog Waterers. Hogs drink more—gain faster on same feed! You sell water at hog market prices since every hog is half-water. For barrel, tank or pressure system. Gas, electric and kerosene models. Operate in coldest weather. Last a lifetime! Money-back guarantee. See your favorite dealer, or write direct for circular and prices.

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Stop Soil Erosion

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Send for Free Literature and Low Prices.
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BUY THE BEST BODY at the BEST PRICE!

FOR OVER 20 YEARS THE TRUCKER'S STANDARD

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Any Dealer can order you an OMAHA STANDARD BODY or HOIST from any of our Factory Branches.

GRAIN TIGHT — BULL STRONG

- BUILT to outlast any truck — Take more road and load punishment
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- All lengths for all trucks

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Why Scoop?
DUMP YOUR LOAD!
Omaha Standard
10 TON UNDERBODY HOIST

Mounts under all bodies, 10' to 16', new or used.

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DON'T BE CONFUSED — THERE'S ONLY ONE OMAHA STANDARD

No Magic Cure for Drunkenness

By CHARLES H. LERRIGO, M. D.

IN ALL MY YEARS, as health adviser, your Health Editor for *Kansas Farmer* has never had so many letters as at present from anxious mothers and wives asking for help in treating liquor addiction. Most of these letters ask for a remedy that may be given to the patient without his knowledge, the popular idea being that some secret preparation (preferably an Indian herb) may be mixed up in a cup of coffee; something that will make the weak drinker become a man of strength to resist temptation. Such ideas are based on catch-penny advertisements and may be classified under the terse term of "bunk."

First step in breaking the liquor habit is to bring the drinker to see that no matter what other persons may drink, alcohol is not for him. It must be totally avoided. No use to dally with the idea that he will drink only what he can take. A victim of chronic alcoholism (a dipsomaniac, if you like) simply cannot take it. There is no stopping place for him because the red thread that runs thru the liquor complex is a narcotic that stupefies all the control he can muster. The first drink deadens more or less the sense of responsibility, and each succeeding dose makes the victim less aware of his weakness and more confident of his ability to stop when he has had enough (or when his money gives out).

Men are curing themselves of the

drink habit? Yes! Sane, shame-far men who see the pit before them shrink from its depths; men who have fight enough in their spirits triumph over the cravings of habit. Strong men, these must be!

But I have little to offer wives mothers of drunkards unless their will do their share. Once willing, man can get help from his doctor; drugs are needed to clean out the toxic poison and restore the jangled nerves. His best plan is to enter a sanitarium for 4 weeks of treatment. A good one will give the treatment for 4 weeks, together with a course follow at home. Yes, it will cost several hundred dollars! For those too poor pay there may be aid offered through probate court. A shameful experience for a good man whose only fault is in his taste. But the probate court early treatment for the man while may still be regenerated is a mild compared to the shame and degradation of habitual drunkenness, to himself, family, friends and community.

Just now I am stirred by a case brought to my personal attention which the court seems to be imperat. It reminds me, however, that once victim "comes to himself," and who heartedly, there is no cure like that proposed and put thru by the excellent group of men and women who make Alcoholics Anonymous. I have personal knowledge of the power of that group.

WHEN YOUR CHILD GOES TO SCHOOL

By Charles H. Lerrigo, M. D.

School days will soon be upon us again. For children of all ages, conditions of health are always of great importance—never more so than now. Our special letter, "When Your Child Goes to School," presents matters even more important than textbooks. A copy will be sent to any subscriber sending a request with an envelope addressed to himself and bearing a 3-cent stamp, to Dr. C. H. Lerrigo, *Kansas Farmer*, Topeka, Kan. No copies can be sent unless the stamped envelope is received.

Coming Events

- August 1-3—Rural Life Camp, Rock Springs.
- August 3-6—Decatur County Fair, Oberlin.
- August 3-7—Marshall county junior leadership camp.
- August 3-8—State Junior Leadership Camp, Rock Springs.
- August 4—Ellsworth county land judging school, Ellsworth.
- August 4-6—Labette County Fair, Oswego.
- August 4-6—Night rodeo, Pretty Prairie.
- August 4-7—Smith County Fair, Smith Center.
- August 5—Malm irrigation development farm, Lindsborg.
- August 5-6—Oakley annual celebration, Oakley.
- August 5-7—Lane County Free Fair, Dighton.
- August 6—Rawlins county livestock judging contest and fitting and showing demonstration, county 4-H Club building.
- August 6-7—4-H Club district livestock judging school, Council Grove.
- August 6-8—Chase County Fair, Cottonwood Falls.
- August 6-8—Annual Clyde watermelon carnival, Clyde.
- August 6-8—Graham County Fair, Hill city.
- August 7—Woodson county school on safe water supply and health, Yates Center.
- August 7—Marshall county livestock judging school.
- August 8—After harvest roundup and free barbecue, Marquette.
- August 8—Rawlins county 4-H Club and business mens picnic, 4-H Club building, 6:30 p. m.
- August 10—Ellsworth county better beef day, Ellsworth.
- August 10-11—Kearney county-wide 4-H activity day, Louck's Park.
- August 10-12—Ottawa County Fair, Minneapolis.
- August 10-12—Rush County Fair, Rush Center.
- August 10-12—Nemaha County 4-H Club fair and carnival, Seneca.
- August 10-15—State 4-H Club conservation camp, Rock Springs.
- August 11—Clark county beef and grass tour.
- August 11—Seward county irrigation demonstration with Dr. Ivan Woods, at the Marvin Odger farm 1 mile south of Seward-Haskell county line on Highway 83 and 3 miles east.
- August 11-14—Clay County Free Fair, Clay Center.
- August 11-14—Mitchell County Fair, Beloit.
- August 11-14—Thomas County Fair, Colby.
- August 12—Kutina irrigation development farm, Ellis.
- August 12-14—McPherson County Fair, Canton.

- August 12-15—Sylvan Grove Fair, Sylvan Grove.
- August 12-15—Russell county 4-H Club Fair, Russell.
- August 12-15—Lincoln county Sylvan Grove Fair.
- August 12-23—American Women of the West Triennial Conference, Toronto, Canada.
- August 13—Rawlins county demonstration and style revue, time and place to be announced.
- August 13-15—Nemaha County Free Fair, Wetmore.
- August 13-15—Ness County Free Fair, Ness City.
- August 13-15—Pratt County Fair, Pratt.
- August 14—Marshall county style revue.
- August 14-15—Annual American Legion Day rodeo, Quinter.
- August 16-18—Lane Fair, Lane.
- August 16-18—Pottawatomie County Fair, Onaga.
- August 16-21—American Farm Bureau Federation Institute, Urbana, Ill.
- August 17-19—Marysville Achievement Fair, Marysville.
- August 17-19—Cloud County Fair, Glasco.
- August 17-19—Wyandotte County 4-H Fair, Bonner Springs.
- August 17-20—Miami County Fair and Show, Paola.
- August 17-20—Pawnee County 4-H Club Fair, Larned.
- August 17-21—Osborne County Fair, Osborne.
- August 18—Kearney county style review and best groomed boy contest, Lakin Rural School.
- August 18-20—McPherson county 4-H Club Fair, McPherson 4-H Club Building.
- August 18-20—Woodson county 4-H Club Fair, Yates Center.
- August 18-20—Butler County Fair, El Dorado.
- August 18-21—Jackson County Fair, Holton.
- August 18-21—Northwest Kansas Free Fair, Goodland.
- August 18-21—Trego County Free Fair, Keeney.
- August 19—"Queen of the Day" Annual Celebration, Marysville.
- August 19-20—Finney-Haskell counties Settlers Picnic, Garden City.
- August 19-21—Howard Fair, Howard.
- August 19-21—Harpers County Fair, Harpersburg.
- August 19-21—Osage County Fair, Osage City.
- August 19-21—East Cowley County Fair, Easton.
- August 19-21—Richmond Free Fair, Richmond.
- August 19-21—Stafford County Fair, Stafford.
- Mid-August—4-H Club Fair, Great Bend.
- Mid-August—4-H Club Fair, Holton.
- August 19—Annual 4-H Show, Sabetha.

Quarter Horse Is Most Popular

Most popular horse in America is the quarter horse, used primarily for cutting and herding cattle. In 1951, 20,000 were registered, more than twice as many as the next breed, the Thoroughbred.

Kansas ranks 7th in the Nation in popularity of the quarter horse—a highly intelligent, rapid-running animal. No other horse can outrun a good quarter horse in a stint of 440 yards. This sprinter can burst into full speed after a few steps. In 1949 the Kansas Quarter Horse Association was organized, sponsors futurity racing, a 300-yard sprint for young horses, and makes awards to top breeding classes at state fairs and shows. Races are held at Meade for both 2- and 3-year-olds. In 1611, 17 English stallions and mares were imported to Virginia and crossed with Spanish horses. The cross proved so successful that in 1656 quarter racing was established. Popularity of the speedy horse spread to all parts of the United States, was accepted as the best short-distance horse in the world. The quarter horse of the East bred to the West, acquired most of its cow sense from interbreeding with Spanish mustang. Now he's popular for polo, rodeos, ranches, farms, for cutting.

Indian Wheats Lead Seeded Acreage

Again, the 3 big "Indian" wheats—Pawnee, Wichita and Comanche—were planted on most of the Kansas wheat acreage for 1953 crop. Those varieties were planted on 68 per cent of the acreage, according to a survey of the U. S. Bureau of Agricultural Economics and State Board of Agriculture. For 6 years the 3 wheats have been the leading, and in all but a few counties make a major part of the 1953 acreage. Further survey results: Pawnee, planted on 34.7 per cent of total seeded acreage; Wichita, 19.7 per cent; Comanche, 13.7 per cent; Triumph, 7.3 per cent; Red Chief, 6.2 per cent; Blue Jacket, 4.6 per cent; Kiowa, a new variety, 4.3 per cent; Tenmarq, 3.1 per cent. Several of the older varieties—Early Blackhull, Blackhull, Turkey, Chiefkan, Cheyenne, Kanred, Kawvale and Clarkan—continue to become less important. Together, they represent only 3.3 per cent of acreage.

Total acreage seeded to wheat last fall was 14,315,000 acres, comparing with 15,068,000 acres seeded for 1952 Kansas crop.

Secretaries Group Choose a Kansan



Roy Freeland

Named president of the North Central Association of Commissioners, Secretaries and Directors of Departments of Agriculture is Roy Freeland, Kansas State Board of Agriculture secretary.

He was elected July 18 at annual meeting of the 13-state agricultural group, at Rapid City, S. D. He was vice-president of the group last year. Mr. Freeland has been Kansas secretary since January 24, 1950, when the late J. C. Mohler retired. He became Mr. Mohler's assistant in 1945. Formerly he was an associate editor of *Kansas Farmer* magazine.

The 13-state group, made up of representatives of North Central states, cooperate on agricultural activities, whether they be the current drought problem or new problems facing agriculture.

Release Report on Dairy Production

Kansas had substantial increases in 1952 production of ice cream, ice milk, nonfat dry milk solids and evaporated whole milk, according to a report of the U. S. Bureau of Agricultural Economics and the State Board of Agriculture. Cottage cheese production increased over previous year.

Creamery butter production in 1952 was slightly over 37 million pounds, a decrease of 13 per cent from 1951. Cheese production was about 8 million pounds, down 13 per cent from 1951. Evaporated whole milk (cased) of 52½ million pounds was up 12 per cent from 1951. Nonfat dry milk solids increased sharply from the low level of 1951, with 9,266,000 pounds in 1952 and only 5,800,000 pounds in 1951.

Total milk production on farms in 1952 was 2,351,000 pounds compared with 2,460,000 pounds in 1951.

TREND OF THE MARKETS

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

	Ago Week	Ago Month	Ago Year
Fed Steers	\$28.00	\$22.00	\$33.00
Hogs	27.00	26.25	23.50
Lambs	26.00	26.50	29.50
Hens, 4 to 5 lbs.	.24	.22	.22
Eggs, Standards	.46½	.45½	.44
Butterfat, No. 1	.54	.54	.65
Wheat, No. 2, Hard	2.37½	2.18	2.34
Corn, No. 2, Yellow	1.61	1.62½	1.87½
Oats, No. 2, White	.86½	.86½	.93½
Barley, No. 2	1.26	1.19	1.42
Alfalfa, No. 1	30.00	30.00	—
Prairie, No. 1	24.00	31.00	—

Polio plus 10 Dread Diseases

Pays Benefits Up to \$6,000.00

for the best medical care possible for each insured member of the family.

- \$10.00** insures husband, wife, and all unmarried children under 18 years of age, one year for POLIO only.
- \$4.00** insures an individual one year for POLIO only.
- \$15.00** insures husband, wife, and all unmarried children under 18 years of age, one year for POLIO and the 10 following DREAD DISEASES.
- \$6.00** insures an individual one year for POLIO and the 10 following DREAD DISEASES.

SCARLET FEVER
TETANUS
LEUKEMIA

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TULAREMIA
SPINAL MENINGITIS

DIPHTHERIA
SMALL POX
RABIES
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CASH BENEFITS COVER SUCH EXPENSES AS:

- DOCTOR BILLS
- HOSPITAL CARE
- HOSPITAL SERVICE
- NURSING CARE
- AMBULANCE SERVICE
- RENTAL OF IRON LUNG
- ORTHOPEDIC AIDS
- TRANSPORTATION

NO WAITING PERIOD

No Increased Rates for Large Families

Should Polio or any of the Dread Diseases mentioned above affect some member of your family READY CASH for prompt treatment must come from somewhere and there is only one low cost solution. Our New FAMILY GROUP POLIO POLICY will provide READY CASH when you need it. Mail a postcard TODAY requesting rates and application blanks. It may be one of the best investments you have ever made. Mail card to

CAPPER'S INSURANCE SERVICE

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Goodbye FLIES, GRUBS, LICE and other insects

Your Animals do it themselves... and love it!



With the NEW POWER AIRE ROLLING APPLICATOR

Eliminate the mess, extra expense and risk of spraying or dipping stock. Simple and quick to erect. Just fill the applicator occasionally with the guaranteed insecticide. One filling of the roll goes a long way. No waste; insecticide will not evaporate; is delivered direct to the vulnerable spot by the revolving roller on animals back or underside. No need to build. No more rounding up and milking cattle. Spring encased for long life and greater "scratchability".

MONEY BACK GUARANTEE!
Applicator Complete \$23.95
Chemical post and (5 lb. weight) \$5.50 Per Gal.

Complete Kit-Applicator and \$43.95
Allons chemical
Prepaid except C.O.D. Send check with order.
POWER-AIRE SALES CO.
P.O. Box 117, 789 No. 24th St., Omaha, Nebr.

FITS MORE! LIFTS HIGHER!

DUNCAN LOADMASTER
Lifts up to 13 ft. And...
fits lower below
front of tractor!

FITS ALL ROW CROP AND CONVERTED WIDE FRONT END TRACTORS!

These Attachments are available for Duncan Loadmaster:

- Dozer Blade
- Push-off Hay Sacker
- Hay Loader
- Snow Bucket
- "V" Type Snow Plow

Write for Illustrated Folder

IRRIGATION PUMP COMPANY
COLUMBUS, NEBRASKA



NEW STRODA BALE ELEVATOR
Length, 20 ft.—elevates 15½ ft., full bale width. Easily powered ½ H. P. motor. Double cable winch.
Low Priced—\$199.50
Dealer Distributor
LONGHOFER SUPPLY
Marion, Kansas Phone 307

Symbol of Quality

Diamond Top

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QUALITY

... in production
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McPHERSON
Concrete Products Co.
McPherson, Kansas

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HELP!

Place Your Help Wanted Ad in **KANSAS FARMER**
Classified Rate: 10c a word, 12 words minimum.

Western Land Roller PUMPS

CENTRIFUGAL and TURBINE FOR IRRIGATION

AVAILABLE WITH Direct Connected Electric Motor, Flat or V-Belt Drive or Right-Angle Gear Drive

WRITE FOR INFORMATION

MANUFACTURED BY **Western Land Roller Co.**
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ANY CAPACITY 300 TO 2500 GALLONS PER MINUTE, AND ANY LIFT FROM 10 TO 300 FEET

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KANSAS FARMER Classified Advertising

WORD RATE

10c per word each issue.
Minimum—12 words.
Names and addresses are part of ad, thus are billed at per-word rate.

Livestock Ads Not Sold on a Per-Word Basis

Column	Cost Per Issue	Column	Cost Per Issue
1/4 inch	\$4.90	2 inches	\$19.60
1/2 inch	9.80	3 inches	29.40

Cuts are permitted only in Poultry, Baby Chicks, Livestock and Pet Stock Ads.
Write for special display requirements.
Kansas Farmer, Topeka, Kan.

● BABY CHICKS

DeForest Blueblood Chicks, broiler and egg breeds, hatching year around. Broadbreasted Bronze Poults. Guaranteed livability. DeForest Hatcheries, Box E, Peabody, Kan.

Broiler Chicks, three pounds in nine weeks. White Rocks and New Hampshire Reds. \$11.75 per 100. Live delivery guaranteed. St. Clair Hatchery, St. Clair, Mo.

● MACHINERY AND PARTS

New Picker Sheller Attachment For Dearborn-Woods Bros. Pickers easily installed. Replace present husking bed. No changes on picker required. Complete. Can be removed by 4 bolts on husking bed and reinstated. Makes double use of Dearborn-Woods Bros. Corn Picker. Use either to snap and husk corn or to pick and shell. Also can be used as stationary sheller. High capacity for picking and shelling. Variable speed V-Belt Drive with ball and roller bearings. Powerful power on unit to clean grain. Grain is augured into wagon while picking. Cobs are left in the field. Saves time, saves labor, saves bin space. You can pick and shell in one operation. Retail price \$396.00 F. O. B. Factory. Feischer-Schmid Corporation, Industrial Site, Box 158, Columbus, Nebraska. Limited supply. Write or phone 2189 today.

"We Sell Rain" 20 advanced designs of sprinklers in operation—Skinner, Buckner and Rainbirds, Webster and Ames pipe—various wheels—skids—pumps by Pacific—Gardner—Denver—Kardus and Jason—Canal liners. We trade—factory warehouse—retail—wholesale. Free. Years of irrigation research, experience and engineering. Lodging—meals—personalized service at Conrad's, Gaylord, Kan.

Factory Closeout two carloads world's finest row crop weed spray outfits. Tremendous savings. Complete, ready to use. Deluxe 7-row 20-foot stainless steel, with finest pump, push button selector valve, pressure gauge, etc. Regular \$350.00. Sale \$129.50 prepaid. Guaranteed to satisfy or money back. Hundreds tool and equipment surplus items. Card for catalog. Surplus Center, Dept. K-4, Lincoln, Nebr.

Save 50% on One-way Discs. Adams hard-faced discs stay sharp for the life of the disc. Breakage, scouring difficulties eliminated. Information and prices on Adams complete line of hard-faced tools furnished free. Adams Hard Facing Company, Wakita or Guyton, Okla.

Gigantic Surplus Sale—Tremendous savings. Government, and excess inventory, power plants, hydraulics, compressors, pumps, weed sprayers, chain saws, binoculars, tools, hundreds items. Illustrated catalog free. Surplus Center, 877 O St., Lincoln, Nebr.

Irrigation pipe, immediate delivery all sizes and lengths. Pumps, motors, wheel tractor puller. Engineers for your farm. Dole Irrigation Co., Norton, Kan., or Kenneth Griffith, Pratt, Kan.

Free New and Used Tractor Parts Catalog. Big 1953 Edition. Tremendous savings for all models. Satisfaction guaranteed. Central Tractor Parts Co., Dept. 32, Des Moines 3, Iowa.

For Sale—Farm tractor, brand new "44" Massey-H. diesel \$2,750. Call or write Fred L. Wiesner, Hays, Kansas.

Irrigation Plastic Pipe with plastic gates, our gates fit pipe you are using. Master Plumbers, Grand Island, Nebr.

● FARM EQUIPMENT

FARMERS OF KANSAS
Now, for the first time, you too can easily obtain that top quality Oil Filter Cartridge so popular with the tractor operators of the upper Mid-West. Write today for description and the new farm price sheet.
Perfection Sales Co., Box 596, Kearney, Nebr.

Do You Know the advantages of electric fencing? Do you know the famous International Electric 106 weed chopper will not short out by weeds? Free information is available by writing International Fencer Co., Inc., 1165 W. Chicago Avenue, Chicago, Ill.

Wire Winder—Avoid barbed wire entanglements. Use a tractor-powered wire winder. Low cost. Free literature. Midwest Wire, Dept. 28, South St. Paul, Minn.

Easy Opening Spring Gate. Stay on your vehicle, pull cable, drive through and pull another cable, gate closes. Dealers wanted. Write for folder. Spring Gate Company, Lamont, Kan.

● FARM LANDS

800 Acre Rolling Holdrege silt loam, porous, drought resisting soil, no sand. Improved, excellent feeding lots, 60-A alfalfa, 200-A farm land, balance pasture land and building lots, 2 springs, 3 good wells, 6 dams. Will handle 100 cows and lot of hogs. Possession March 1, 1954. Can take in 50-70 head cattle now. No money down if you have 100 cows and equipment as security. 10 years time to right party at 5%. Owner retiring. Price \$42.50 acre. Just sold place like it to John Murgardt, Garden City. Ernest Young, Red Cloud, Nebr.

Strout Farm Catalog Free! Farms, Homes, Businesses, etc. Over 3,200 bargains described. 31 states. World's largest. 53 years service. Strout Realty, 20-V West 9th St., Kansas City 6, Mo.

For Sale: 223-Acre Improved Farm. Fair buildings. Large house. Electricity available. Good road. Close to market. Good fishing, hunting. Box 472, Ferguson Falls, Minn.

1,265 Acres near Trinidad, Colo. Well improved stock ranch. 38 acres alfalfa. Running water. Price \$25,700. Louis Miller, Frankfort, Ind.

● SEEDS

New Early Kankin seed wheat also Kankin—Bluejacket—Bluejacket—Supered. Reliable. High Yields—Quality—Test—Purity—Germination. Write Clarke Blackwell Seed Farms, Sedgwick, Kan.

● EDUCATIONAL—BOOKS

AUCTION SCHOOL Learn Auctioneering America's Leading Auctioneers Teach You. Students sell actual sales. Largest school in world. 20 years in operation. Don't be misled. Term soon. Free catalog. Write **RESEARCH AUCTION SCHOOL, Mason City, Iowa**
Learn Auctioneering. Term soon. Write for catalog. Missouri Auction School, Box 4746, Kansas City, Mo.
Fl. Smith Auction School, Ft. Smith, Ark. Term soon. Free catalog.

● DOGS AND SUPPLIES

Fleacollar, new, easiest way to kill fleas. Veterinary-approved. No fuss-trouble. Adjustable, easy to put on your dog. Kills fleas, relieves itching torment. Guaranteed effective. Postpaid 50c coin. John A. Lewis & Sons, Rochester 6, New York.

Beautiful Golden Collie Puppies, Eligible A.K.C. Purebred English Shepherds, Barnes, Coliery, Kan.

● FOB THE TABLE

HONEY MIXED FLOWER (Dark) 60-lb. Can FOB **\$9.90**

Extracted—Pure as bees can make it.
60-lb. Can Clover, FOB, \$12.00
12-lb. Can Clover (Postpaid to 600 ml.) 3.85
12-lb. Can Mixed (Postpaid to 600 ml.) 3.50
Order Promptly—Supply Limited
RAHN APIARIES, 1715 Lane St., Topeka, Kan.

Eat Delicious Lumco confection, contains old fashioned licorice and molasses candies, guaranteed factory fresh, soft tasty, healthy aids smokers too. Six 3-ounce waxed bars, solid small cuts \$1 postpaid. Lumco Products, Kimball 7, Nebr.

● FILMS AND PRINTS

8-exposure roll 1 each 25c, 2 each 35c. Reprints 3c each. 8-exposure roll JUMBO 35c, 3 5x7 enlargements for 50c, 4 8x10 for \$1.00. At your service for over 50 years.

SUMMERS STUDIO Unionville, Mo.

Wisconsin Film, West Salem, Wis., include a roll of film, same size you send, with below offers. 8 Beautiful 4x6 glossy enlargements from your 8 exposure roll 40c. 12 snappy 4x4 enlargements from your 12 exposure roll 60c. You must enclose advertisement.

20 DECKLEGE REPRINTS 50c

6-8 exposure roll developed and printed 25c; 12-exposure, 30c; Jumbo prints, 4c each.
TINY'S PHOTO SERVICE
Box 1068-KF Topeka, Kan.

No Charge for developing roll — pay for prints only—regular size 3c. Jumbos 4c. Refund on prints not good. Established 25 years. Square Deal Photo, Box 1153, Hutchinson, Kansas.

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

12 Jumbos, 35c; 8 Jumbos, 25c; 16 Jumbos, 50c. from roll or negatives with this ad. I. Skrudland, Lake Geneva, Wis.

Two Prints each good negatives, 8-exposure, 35c; 12-exposure, 50c; 16-exposure, 65c; reprints, 4c. Mayfair Photo Service, Box 617-B, Toledo, O.

● FEATHERS WANTED

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

● SERVICES OFFERED

Sho Replastering, Jack W. Fowler, Parkville, Mo., P. O. Box 303, Phone 220.

● HOME HEATING

Parts for All Stoves, ranges, heaters, furnaces. Fit guaranteed. Write for prices. Give make, model and part number. Omaha Stove Works, Dept. K, 1204 Douglas St., Omaha, Nebr.

● AGENTS AND SALESMEN

At Last! Something new and sensational in Christmas Cards. Make extra money fast! Show Satins, Velours, Metallics. Gets easy orders. Pays up to 100% cash profit. 30 free samples. With name 50 for \$1.50. Big line. Amazing new Glo-in-the-Dark Ornaments. Personalized Stationery. Matches. Several \$1.00 boxes on approval. Puro Greetings, 2801 Locust, Dept. 387-K, St. Louis, Mo.

Brand New! Amazingly different and smart Christmas Cards bring you big money! Take easy orders fast! Pays up to 100% cash profit. With name 50 for \$1.50. Big line. Sensational Glo-in-the-Dark Ornaments. Personalized Stationery. Matches. Several \$1.00 boxes on approval. Imprints free. North Star, 31 Glenwood, Dept. 63-L, Minneapolis, Minn.

Agents Wanted. Make money and satisfied customers. Buy, sell and install lightning rods. Write Reliance Company, Box 512, Sycamore, Ill.

● BUSINESS OPPORTUNITY

Fast Growing Florida's excellent local markets mean more profits for you. You benefit from the year-round growing season, and the variety of soil and crops—plus living in Fabulous Florida's mild climate that's cool in summer, warm in winter. Investigate the farming opportunities in this rapidly growing agricultural state. Write direct to State of Florida, indicating your specific farming interests and requirements, and request your copy of beautifully illustrated booklet: Farm Opportunities in Florida. Get complete information without cost or obligation. Send your inquiry to State of Florida, 6227H Commission Building, Tallahassee, Fla.

Start Venetian Blind Laundry. Profitable lifetime business. New Machine. Free booklet. A. B. Co., 422 N. Seneca, Wichita 12, Kansas.

● PATENTS AND INVENTIONS

A. H. Sturges, 317 Sunderland Bldg., Omaha, Nebr. Registered Patent Attorney, U. S. Patent Office. Procedure information, evidence of invention form and patent book sent on request.

● OF INTEREST TO WOMEN

Watches and Diamonds practically wholesale to wearer direct. Save up to 60% on famous make watches, diamonds, jewelry, silverware, gifts, home needs and other merchandise. Free catalog. America's greatest values. Send name and address to Maryland Distributing Company, Dept. C-71, 501 E. Baltimore St., Baltimore 2, Md.

Weavers—Write for low prices—carpet warp, rug filler, looms, parts, inexpensive beam coupler. If you have a loom, give make and width please. Or. Rug Company, Dept. 7314, Lima, O.

Pinking Shears—Only \$1.95 postpaid. Chromium plated, precision made. Manufacturer's Christmas overstock. Guaranteed \$1.95 value or money refunded. Lincoln Surplus Sales, 529 Main St., Evanston 49, Ill.

Thrilling, Profitable Home Business. Make fast-cash, flexible money, trees, dolls, flowers. Terrific holiday demand. Information free. Velva, Bohemia 2, N. Y.

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

Send Wool or Wool Rags. For woollens, batting, blankets. Free circular. Litchfield Woolen Co., 303 N. Sibley, Litchfield, Minn.

● REMEDIES—TREATMENTS

Arthritis and Rheumatism sufferers: Read "Crude Black Molasses" by Cyril Scott. One dollar postpaid. Harmony Book Shop, New Castle, Penn.

Free Book—Piles, Fistula, Colon-Stomach, associated conditions. Latest methods. Thornton & Minor Hospital, Suite C806, Kansas City 9, Mo.

● OF INTEREST TO ALL

"It Works" "New Rid-X really does clean and deodorize outdoor toilets," say thousands of satisfied users. New Rid-X is wonderful for septic tanks and cesspools too. Non-poisonous, harmless to plumbing. Money back guarantee. \$1.69 postpaid or C.O.D. Order yours today. Wilco, Box 294, Danville 2, Ill.

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

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

Invalid Walkers—Designed for those afflicted with paralysis, arthritis, limb fractures; price \$35 or will rent. Write for information. Patterson Mfg. Co., Adrian, Mo.



In the Field
MIKE WILSON
TOPEKA, KANSAS
Livestock Editor

WARREN E. BUCHANAN, Lewis, has been named to membership in the American Milking Shorthorn Society.

GROVER G. MEYER, Basehor, recently had his herd of registered Holstein-Friesian dairy cattle classified for type (body conformation) under the official type classification program, conducted by the Holstein-Friesian Association of America. This was the 9th time the herd has been classified; of 59 eligible animals in the herd now classified, 3 are designated "Excellent," 9 "Very Good," 33 "Good Plus," and 14 "Good."

We have a nice note from W. F. FRERKING, Herkimer, telling us the sale committee of the North Central Kansas Holstein Breeders met recently and made plans for a fall sale. Entries are open to anyone wishing to enter some good grades or registered Holsteins in this sale. Members of this sale committee are George Mueller, Hanover; Lambert Young, Haddam, and W. F. Frerking, Herkimer.

R. L. EVANS & SON, Hutchinson, recently had their herd of registered Holstein-Friesian dairy cattle classified for type (body conformation) under the official type classification program, conducted by the Holstein-Friesian Association of America. This was the 13th time the herd has been classified; of 20 eligible animals now classified, 3 are designated "Very Good," 13 "Good Plus," and 4 "Good."

Of interest to Angus breeders thruout the Midwest is the recent sale of Homeplace Eileenmore 109th, the chief herd sire at the LLOYD ERICSON farm of Marquette to Fred Mc-Murray, movie star of Hollywood, Calif. In recent years Mr. and Mrs. McMurray were enthusiastic breeders of Milking Shorthorns. Due to her health they dispersed their herd of Milking Shorthorns. Mrs. McMurray's death was quite recent. The figure of \$15,000 was paid by Mr. McMurray for this very good Angus bull.

WILLARD H. WALDO, DeWitt, Nebr., known thruout the Middle West for his famous Durocs, writes this office that livestock and farming conditions in his section of the country have been very good thru this summer. Mr. Waldo is a consistent advertiser in Kansas Farmer. He uses this channel in which to dispose of his purebred seed stock, which he produces on his farm at DeWitt, Nebr. Besides Durocs, he breeds Milking Shorthorn cattle and Hampshire sheep of the highest quality.

With 500 pounds of butterfat and 14,318 pounds of milk to her credit, Onabank Alpha Triune, registered Holstein-Friesian cow owned by LLOYD SHULTZ, Pretty Prairie, has completed a 317-day production test in official Herd Improvement Registry, with the Holstein-Friesian Association of America. She was milked 2 times daily and was 9 years 7 months when she began her testing period. Her record averages about 21 quarts of milk daily for the period covered by her test.

CARL BEYER, the newly elected secretary of the North Central Kansas Free Fair at Belleville, reports plans for the 1953 fair are progressing very rapidly. Mr. Beyer reports good rains fell in that territory recently and crop conditions are much improved. All indications point to a larger and better fair this year than ever before. The Belleville Fair is the home of the A. P. A. Poultry Show; thousands of dollars are offered in cash prizes for cattle, hogs and sheep. Everyone desiring to exhibit their livestock at this year's fair may have a premium list by writing Carl Beyer, Secretary, at Belleville.

THREE HOLSTEIN HERDS in Kansas recently have completed a year of production testing in the official Herd Improvement Registry program of the Holstein-Friesian Association of America.

These are Wilson Brothers, Lincoln—24 cows averaged 408 pounds of butterfat and 11,473 pounds of milk in 317 days on 2 milkings daily; Luther Shetler, Conway Springs—21 cows averaged 405 pounds of butterfat and 11,964 pounds of milk in 310 days on 2 milkings; Floyd Jantz, Canton—12 cows averaged 374 pounds of butterfat and 10,020 pounds of milk in 266 days on 2 milkings.

Pabst Reburke Paul Wayne, registered Holstein-Friesian bull owned by JAKE ZARNOWSKI, Newton, has been honored as a "Silver Medal Type Sire" by the Holstein-Friesian Association of America. This high award is based on his ability to transmit to his daughters highly desirable characteristics of body conformation according to the Ideal Holstein-Friesian score card. Of the 22 daughters of this bull born 3 or more years ago or that are known to have calved, 19 have been officially classified for type by an official inspector of the national association. They have an average score of 82.2 points. Among these daughters, 5 were classified as

"very good," the second highest score an animal can receive. The bull has been classified as scored "very good" also.

Fraser Netherland Masterpiece, registered Holstein-Friesian bull owned by HUGH BROTHERS, Waldron, has been honored as "Silver Medal Type Sire" by the Holstein-Friesian Association of America. This high award is based on his ability to transmit to his daughters highly desirable characteristics of body conformation according to the Ideal Holstein-Friesian score card. Of the 12 daughters of this bull born 3 or more years ago or that are known to have calved, 10 have been officially classified for type by an official inspector of the national association. They have an average score of 81.2 points. This bull has been classified for type also, and has been scored "very good."

Springrock Mercedes of Rock, a registered Holstein-Friesian bull owned by GROVER MEYER, Basehor, has been honored as a "Silver Medal Type Sire" by the Holstein-Friesian Association of America. This high award is based on his ability to transmit to his daughters highly desirable characteristics of body conformation according to the Ideal Holstein-Friesian score card. Of the 13 daughters of this bull born 3 or more years ago or that are known to have calved, 12 have been officially classified for type by an official inspector of the national association. They have an average score of 82.5 points. This bull also has been classified for type, and scored "very good."

Thonyma Maudene Duke, registered Holstein-Friesian bull owned by ST. JOSEPH'S ORPHANS HOME, Abilene, has been honored as a "Silver Medal Type Sire" by the Holstein-Friesian Association of America. This high award is based on his ability to transmit to his daughters highly desirable characteristics of body conformation according to the Ideal Holstein-Friesian score card. Of the 12 daughters of this bull born 3 or more years ago or that are known to have calved, 10 have been officially classified for type by an official inspector of the national association. They have an average score of 82.5 points. This bull also has been classified for type, and scored "very good."

Vale Creamelle Ormsby, registered Holstein-Friesian bull owned by E. E. STRICKLAND, Iola, has been honored as a "Silver Medal Type Sire" by the Holstein-Friesian Association of America. This high award is based on his ability to transmit to his daughters highly desirable characteristics of body conformation according to the Ideal Holstein-Friesian score card. Of the 20 daughters of this bull born 3 or more years ago or that are known to have calved, 16 have been officially classified for type by an official inspector of the national association. They have an average score of 81.8 points. Among these daughters, 3 were classified "very good," the second highest score an animal can receive. The bull has been classified and scored "very good" also.

The SIMON FARMS COW AND CALF SALE held July 20 at Madison, was one of the Aberdeen-Angus sales to be held in the Midwest in a number of years. Seventy-two lots sold \$202,025 averaging \$2,805 per head. Top cow and calf was sold to Tippycoo Farms, Canton, O., for \$6,400 on the cow, Lot 9, Game of Bellevue, and her heifer calf sold for \$6,000 to Penney & James, Hamilton, Mo., to \$13,200. High-selling individual in the sale was Lot 8, Angus Valley Blackcap Bessie 2nd, cow bull calf at side, going to Four Wynnes Farm, Dallas, Tex., for \$13,000.

This sale was well attended by buyers from out the United States. Auctioneers were Roy Johnston, Ray Sims and Paul Good, assisted by men of the livestock press.

On Wednesday, July 15, around 250 to 300 cattlemen and their families hit the dusty thru the FLINT HILLS SECTION of southern Kansas. The group gathered at 7:00 A. M. at Sanders Hereford Farms, Miller, for breakfast. After an enjoyable meal the crowd inspected fine Herefords on display by Norton S. and Sanders. The caravan proceeded on south to visit Sunbryne Farms, owned by Frank Gels & Sons, Lebo. After inspection of their Herefords we visited a detention dam being constructed in one of their good pastures. Our stop was at the Jackson George Hereford Farm 7 miles east of Lebo. Our dusty trail ended we were on Highway 508. We proceeded south on Highway 75 to a pasture stop at the J. D. Hereford Ranch, owned by John Brink and Sons. Roy, then on to the W. E. Hanzen pasture inspect their good Herefords. Our noon stop was at the John Brink headquarters near LeRoy. A fine dinner was served to these enthusiastic Hereford breeders. After lunch the Brink Herefords were looked over very carefully and then proceeded back to Highway 75 to go south to Benedict and visit the H. J. Davies Farm. After leaving the Davies farm the black cow began to appear and by the time we reached the Crestview Hereford Ranch, Fall River, owned by Streeter Funk, 2 inches of rain had fallen. Tom Brown, Fall River, also had some of his good Herefords on display at the Crestview. A pasture stop was enjoyed at the Ed. Mary Brown, Greenwood Hereford Ranch, 1 1/2 west of Fall River. Our 10th stop of the day was at the Fall River Hereford Farm, owned by Ted Brown, Fall River. Our supper stop was at Whittall, Fall River dam, compliments of Browns and Streeter Funks. The overnight stop was in Eureka, with the breakfast meeting morning of the 16th at the City Park. The meeting of the day was at the E. S. (Ted) Tucker farms, east of Eureka. The tour proceeded to the Mrs. Murray French farm, Severy, and to the Virgil McCormick, Climax. At Rosalia, Overstreet Herefords were inspected. The stop for the second day was at the Satchel Creek Ranch, owned by A. D. Rayl, Rosalia. The courtesy of the Satchel Creek Ranch, lunch served to all on the tour. The afternoon program included a talk by L. P. McCann, director of research for the American Hereford Association. Sox Hendry gave a fitting and interesting demonstration of show cattle. A. G. Pickens, State Livestock Sanitary Commissioner, discussed some livestock sanitation problems in Kansas.

This concluded the Flint Hills tour. This association claimed a late October date for the Annual Fall Sale to be held in Cottonwood Falls, Elmore Stout, Cottonwood Falls, is sales manager. E. S. Tucker, Eureka, is the president of the Flint Hills Hereford Association.

AMONG REGISTERED HOLSTEIN-FRIESIAN COWS in Kansas whose recently completed production records were recorded by Herd Improvement Registry Department of the Holstein-Friesian Association of America.

Owned by Dale Kubin, McPherson—Dale Smoky Galey, 526 pounds butterfat, 13,300 pounds milk, 343 days, 2 milkings daily, 4 years of age.

Beef CATTLE

POLLED SHORTHORNS

Established - 1907
Banburys over 150 in herd. Cherry Hill - Oakwood - Coronet blood. None better. For sale: One choice young sire. Club calves, bulls and females. Some of all ages. Including the show herd. No public sale. Prices reduced. You can save \$25 to \$100.

BANBURY & SONS

Plevna, Kansas
9 miles southwest of Hutchinson, then west 14 miles on blacktop.

NOW OFFERING SERVICEABLE AGE BULLS

Every boned, well grown for farmers, ranchers and purebred breeders of Polled Herefords.

PLAIN VIEW FARMS

SE RIFFEL & SONS, Enterprise, Kansas

FREE CATTLE BOOK



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

AMERICAN ANGUS ASSOCIATION

CHICAGO 9, ILLINOIS

HOGS

REGISTERED SPOTTED POLAND CHINA
Gifts to farrow in September. Also a couple serviceable boars and spring pigs. Double time, top quality and breeding. Earl J. Fleiser, Norwich, Kansas.

Kansas State Yorkshire Sired Sow and Gilt Sale

Tuesday, August 4, 1953
(NIGHT SALE) 7:30 P. M.
Central Kansas Free Fair Grounds, Eisenhower Park

Abilene, Kansas

Barrow shows all over the United States this year Yorkshires have proven to be the best of the year consistently taking top honors in on-the-hoop classes and in the dress classes. In this offering will be 40 bred sows and gilts from some of the best Yorkshire herds in Kansas. For information and sale catalog write GEO. WM. BURKHOLDER, Sec. KANSAS YORKSHIRE BREEDERS ASSOCIATION INC., Abilene, Kansas

SHEEP

W. Missouri Hampshire Sheep Breeder's Assn.



RAM SHOW AND SALE SATURDAY, AUGUST 8

Purebred livestock sale barn
SOUTH ST. JOSEPH, MO.
Show at 11:00 a.m.—Sale 1:00 p.m.

25 yearling rams—
aged rams—5 ram lambs
a few select yearling ewes and ewe lambs will be offered

For catalogs or additional information write to:
B. HOUGHTON, Secretary
Northwest Missouri State College
Maryville, Missouri
Auctioneer—Bert Powell

REGISTERED SHROPSHIRE AND HAMPSHIRE YEARLING RAMS
ewes and 1953 lambs. Good breeding and reasonably priced.
Newell, Elm Dale Farm, Wakefield, Kan.

AUCTIONEERS BERT POWELL

AUCTIONEER
LIVESTOCK AND REAL ESTATE
Class Avenue Topeka, Kan.

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

Owned by Ernest A. Reed & Son, Lyons—Collins Farm Man-O-War Heien, 712 pounds butterfat, 19,551 pounds milk, 365 days, 2 milkings, 9 years 3 months.

Owned by E. B. Regier, Whitewater—Regier Tidy Rose, 473 pounds butterfat, 15,182 pounds milk, 307 days, 2 milkings, 4 years 2 months.

Owned by Wallace J. Beckner, Belle Plaine—Lilac Valley Ace Goldie, 532 pounds butterfat, 14,316 pounds milk, 318 days, 2 milkings, 2 years 6 months.

Owned by W. G. Bircher & Sons, Ellsworth—Smoky Valley Carnation Birdie, 516 pounds butterfat, 13,535 pounds milk, 319 days, 2 milkings, 3 years 4 months.

Owned by Lester Conner & Son, Lyons—Sarah Rachel Constance, 528 pounds butterfat, 15,029 pounds milk, 314 days, 2 milkings, 6 years 3 months.

Owned by J. W. Carlin, Smolan—Carlins Hill-top Priscilla, 610 pounds butterfat, 16,878 pounds milk, 365 days, 2 milkings, 4 years 11 months.

Owned by W. G. Bircher & Sons, Ellsworth—Smoky Valley Carnation Jewel, 479 pounds butterfat, 13,334 pounds milk, 282 days, 2 milkings, 3 years 5 months.

Owned by C. C. Kagarice, Hutchinson—Mercedes Carnation Girl, 638 pounds butterfat, 16,997 pounds milk, 365 days, 2 milkings, 6 years 4 months.

Owned by Luther Shetlar, Conway Springs—Shetlars Pearl Inka, 503 pounds butterfat, 14,756 pounds milk, 332 days, 2 milkings, 9 years 2 months; Shetlars Queen Pontiac Rose, 559 pounds butterfat, 17,433 pounds milk, 326 days, 2 milkings, 4 years 2 months.

Owned by Harvey Bechtelheimer, Sabetha—Collins Farm Frosty Violet, 722 pounds butterfat, 17,861 pounds milk, 365 days, 2 milkings, 4 years 4 months.

Owned by E. A. Dawdy, Salina—Mt. Joseph Agnes, 759 pounds butterfat, 20,528 pounds milk, 365 days, 2 milkings, 7 years 10 months.

Owned by Floyd Jantz, Canton—Elm Mont Imperial Ona May, 521 pounds butterfat, 13,100 pounds milk, 365 days, 2 milkings, 3 years 10 months.

Public Sales of Livestock

Aberdeen-Angus Cattle
September 21—WRS Angus Ranch, Hutchinson.
September 24—National Aberdeen-Angus Sale, Hutchinson.

September 24—National Aberdeen-Angus Sale, Hutchinson.
October 7—Kansas Aberdeen-Angus Association Feeder Calf Sale, Salina.

Hereford Cattle
August 18—Straight Creek Ranch Hereford Dispersion, Whiting.

August 19—Salina Hereford Sale, Gene Sundgren, Sale Manager, Salina.
August 24—Delmar Roberts Dispersion, Gove, Kan. Sale at Quinter.

August 31—Steeple X Ranch, Belton, Mo.
September 1—Steeple X Ranch, Belton, Mo.
September 5—Jay L. Carswell & Sons Dissolution Sale, Alton, Kan.

September 7—Lee M. Smith, Claremore, Okla. Complete Hereford dispersal.
September 8—Circle K Ranch and F. L. Robinson, Beatrice, Nebr.

September 8—Albert Morgan, Alta Vista, Kan.
September 23—Salina Hereford Sale, Gene Sundgren, Sale Manager, Salina.
September 26—Frank J. George & Sons, Lebo, Kan.

September 28—4E Ranch, Topeka, Kan.
October 1—Broken Winecup Ranch, Marion, Kan.
October 6—Beeks & Cleland, Baldwin, Kan.
October 7—Brown Bros. & Streeter Funk, Fall River, Kan.

October 10—BK Ranch, Burr Oak.
October 13—NCK Hereford Association, Belleville, Kan. Geo. C. Wreath, Sale Manager, Belleville, Kan.

October 16—DeFord Ranch, El Dorado.
October 17—CK Ranch, Brookville.
October 21—Salina Hereford Sale, Gene Sundgren, Sale Manager, Salina.

October 24—Haven Hereford Association, Haven, Kan.
October 29—Kansas Flint Hills Association, Cottonwood Falls, Kan.

November 2—Sumner County Hereford Breeders, Wellington.
November 4—Lincoln County Hereford Association, Sylvan Grove, Kan.

November 6—Cowley County Hereford Breeders' Association, Arkansas City, Kan.
November 9-10—Sunflower Futurity, Hutchinson.

November 11—W. H. Tonn & Son, Haven, Kan.
November 18—Bellyacres Ranch, Paxico.
November 23—Solomon Valley Hereford Association Sale, Osborne, Kan.

December 4—South Central Hereford Association, Newton, Kan.
December 16—Salina Hereford Sale, Gene Sundgren, Sale Manager, Salina.

Polled Hereford Cattle
September 4—Mar-Don Farm Reg. Polled Hereford Complete Dispersion Sale, Don S. Meyer, Columbia, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.

September 14—Vic Roth Polled Hereford Dispersion, Hays.
September 17—Joint herd sale at Fairbury, Nebraska. Ed Valek & Son, Donald R. Goodger, and E. G. Nesmith & Son.

September 25—4E Ranch, Topeka, Kan.
October 3—Midwest Polled Hereford Association, Deshler, Nebr.

October 12—Perry Hedrick & Sons Registered Polled Hereford Production Sale, Anutt, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.

October 31—Leo Ebel & Son, Wamego, Kan., and W. R. Zimmerman & Son, Alta Vista, Kan. Sale at Alma, Kan.

November 2—Frank Matheson, Natoma, Kan., and Jake Reich & Son, Paradise, Kan. Sale at Natoma.

November 7—O'Bryan Ranch, Registered Calf Sale, Hiattville.
November 17—O'Bryan Ranch Polled Herefords, Hiattville.

November 20—Central Kansas Polled Hereford Association, Herington, Kan. O. J. Shields, Sales Manager, Lost Springs, Kan.

November 21—Jesse Riffel & Sons, Enterprise.
November 30—Kansas Polled Hereford Association, Vic Roth, Sale Manager, Hays.

Holstein Cattle
September 2—Rogers Ranch Dispersal—A. F. Leonard, Sedan.
September 28—Nebraska Holstein Breeders Association, Seward, Nebr. T. Hobart McVey, Sales Manager, Nickerson, Kan.

October 21—Kansas Holstein Breeders Association, Herington, Kan. Roy Chamberlain, Chairman sales committee, Olpe, Kan.
October 26—North Central Kansas Holstein Breeders Association, Washington.
November 4—Central Kansas Holstein Breeders Association, Hutchinson, Kan. T. Hobart McVey, Sales Manager, Nickerson, Kan.

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

Milking Shorthorn Cattle
September 4—Gordon Janssen Dispersal, Bush-ton, C. O. Heidebrecht, Sale Manager, Inman.

October 30—Kansas Breeders Sale, Hutchinson. C. O. Heidebrecht, Secretary, Inman.
November 12—McPherson County Breeders' Sale, Hutchinson. C. O. Heidebrecht, Secretary, Inman.

Sheep
August 7—Nebraska Registered Sheep Breeders, Lincoln, Nebr. M. A. Alexander, Secretary, Lincoln, Nebr.

Hampshire Sheep
August 8—Northwest Missouri Breeders Association, South St. Joseph, Mo. F. B. Houghton, secretary, Maryville, Mo.

Poland China Hogs
September 8—Albert Morgan, Alta Vista, Kan.
September 24—Glenn F. Wiswell & Son, Spring-hill, Kan.

Yorkshire Hogs
August 4—Kansas State Yorkshire Breeders Association, Abilene, Kan. (night sale)

Duroe Hogs
October 15—Willis Huston, Americus, Kan.

Win Scholarships

Seventeen young Kansans have won scholarships to Kansas State College school of agriculture.

Winners of \$200 Kroger scholarships are Brent Adair, Burlingame, and Theodore J. Colson, Stilwell.

Sears-Roebuck \$150 scholarship winners include: Roger D. Adamson, Cherryvale; Danny D. Adamson, Wamego; Gilmore M. Dahl, Everest; Roger L. Douglass, Burlington; Duane Fruechting, Aulne; Carl L. Hamilton, Cherryvale; Wayne S. Kincaid, Mulvane; Walter Martin, Opelika; Willis L. Mog, Mankato; Gary Neilan, St. Francis (winner of Kansas Farmer-sponsored 1952 state 4-H news writing contest); Virgil Norton, Quinter; Kenneth Stilley, Riley; Leon A. Sucht, Rozel; Donald C. Warren, Medicine Lodge; Ray A. Zimmerman, Olathe.

New Soil Lab

Wabaunsee county farmers soon can take samples of soil from their farms to a county soil-testing laboratory, in the county agent's office at Alma. Tests will give a complete analysis showing percentage of organic matter content and what commercial fertilizer elements would be needed. Kansas Farmer for July 18 brought you a cover feature story on soil labs.

Livestock Advertising Rates
Effective February 1, 1951
1/2 Column inch (5 lines) ... \$3.50 per issue
1 Column inch ... \$9.80 per issue
The ad costing \$3.50 is the smallest accepted. The smallest public sale ad accepted is 1 column by 2 inches, costing \$19.60.
Publication dates are on the first and third Saturdays of each month. Copy for livestock advertising must be received on Tuesday, eleven days before.
MIKE WILSON, Livestock Editor
8th & Jackson
Kansas Farmer - - Topeka, Kansas

Buy U. S. Savings Bonds

Dual-Purpose CATTLE

FOR SALE: 2 POLLED MILKING SHORTHORN BULLS
Roans, 9 and 11 months of age.
MAX CRAIG, Osage City, Kansas

Dairy CATTLE

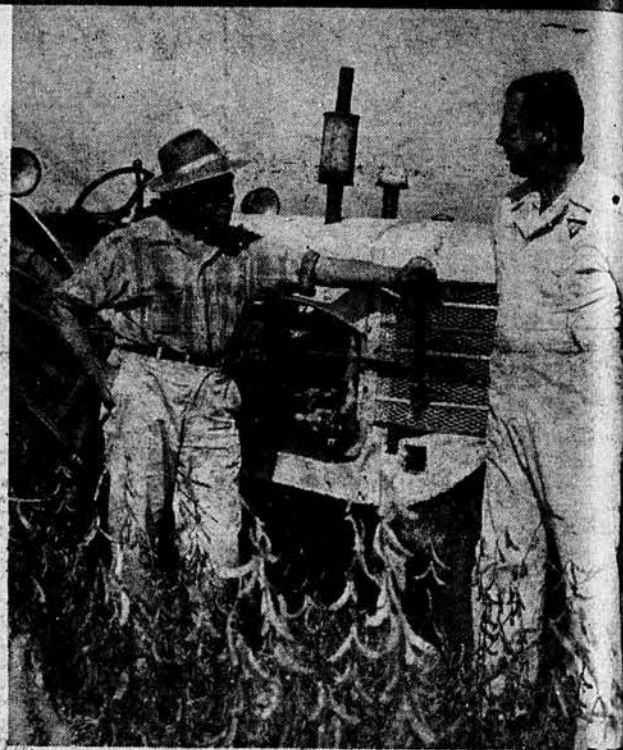
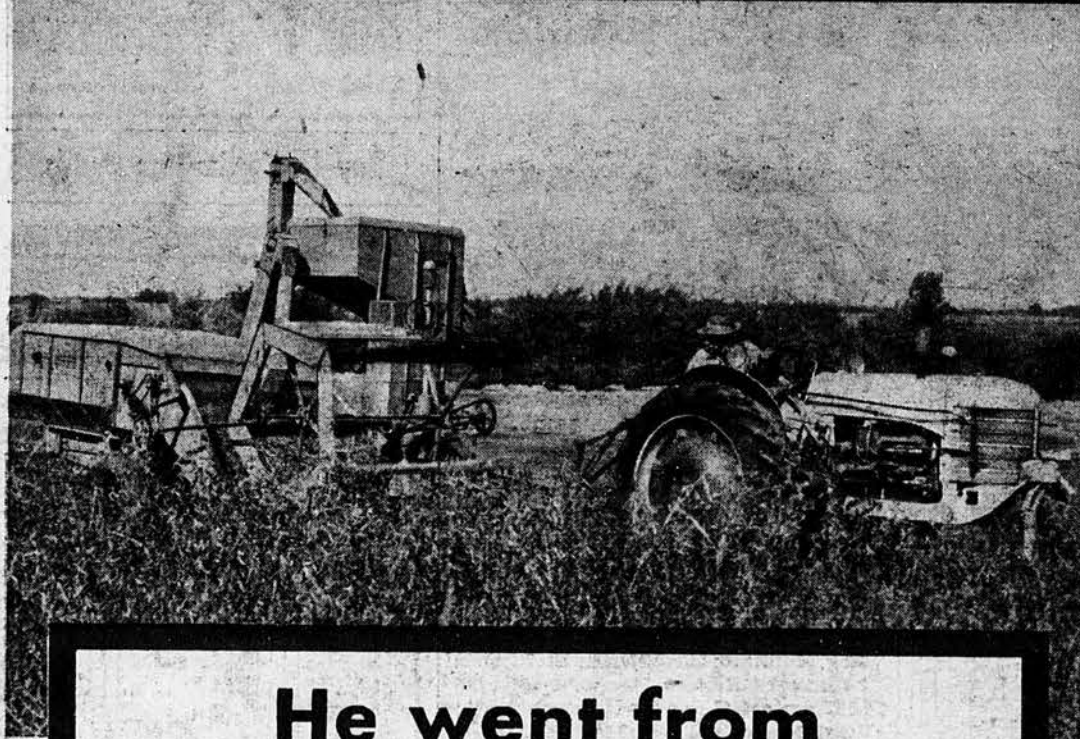
COMPLETE BROWN SWISS DISPERSAL SALE
Viola, Kansas
(21 miles southwest of Wichita and 2 1/4 miles west of Viola, Kansas)
Tues., August 4, 1953
12 NOON
70 HEAD
One of the top grade and registered herds in Southern Kansas. T.B. and Bang's tested. Calfhood vaccination. Artificial breeding. Selling Melody Grove Phyllis—high cow in 1952 Tri-State Sale at Topeka. Also offering a few Holsteins. Dairy equipment. LUNCH SERVED.
Cole & Son, Auctioneers
JOHN FARMER, Jr., Owner
VIOLA, KANSAS

INCREASE YOUR BASE
120 Registered Ayrshires
best bloodlines. Imported and domestic. All ages. Drafted, must sell.
WALLACE JOHNSON
TOWANDA, KANSAS

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

HOLSTEIN DISPERSAL SALE
J. H. HOLM & SONS, 3 1/2 miles east of
Rocky Ford, Colorado, on U. S. 50
Wednesday, August 12, 1953. 12 Noon
60 Head Reg. Holsteins including 30 Milk Cows
This herd represents 35 years of constructive breeding of top cattle. Never a suspect or a reactor to Bang's.
For illustrated catalogs write
H. R. LASCELLES, Reg. Holstein Auction Service
Brighton, Colorado
Austin and Austin, Ft. Collins, Auctioneers

NORTH CENTRAL KAN. FREE FAIR
August 31, September 1, 2, 3 and 4
Belleville, Kansas
"At the Crossroads of America"
KANSAS' THIRD LARGEST FAIR
Thousands of dollars offered in cash premiums for purebred livestock. Entries close August 24.
OFFICIAL A. P. A. POULTRY SHOW
"Don't fail to come exhibit and meet your friends at Belleville, fair week.
Write for premium list to
CARL BEYER, Secretary



He went from **BEAMS to BEANS!**

For fifteen years L. R. Peek of Lacona, Iowa, was a carpenter. Now he owns and operates a highly successful 160-acre farm. So successful, indeed, that his carpentering experience must have convinced him of the value of building on a firm foundation—good soil! Mr. Peek's produce includes beans as well as other crops such as oats and corn. And his average yield per acre for all crops is now more than 45 bushels. At one time, it used to be less than 10 bushels!

It was only 6 years ago that Mr. Peek bought his farm. The farm had been rented out and the soil was badly run down. Mr. Peek went to work and with soil conservation, crop rotation, fertilizer and a lot of elbow grease he increased his yield more than 400%!

Mr. Peek is a firm believer in taking good

care of his machinery as well as his land. That means he's a Conoco user. Listen to Mr. Peek and you'll see why: "The manufacturer of my tractor says that 50 hours on this motor is equal to 2,500 miles. Yet, after running it 1,800 hours with CONOCO Super MOTOR OIL . . . the equivalent of 90,000 miles . . . a check-up revealed no wear on cylinder walls. And although my combine has threshed over 1,200 acres, I still change my Conoco Oil every 50 hours without having to add a drop between changes. Yes, Conoco Super would be cheap at twice the price!"

Have you ever tried CONOCO Super MOTOR OIL? Once you do you'll never want to go back to any other. For the whole line of Conoco lubricants are of superior quality. Next time why don't you try Conoco?

At left Mr. Peek harvests his bean crop. Normally he keeps about 20 acres in beans and, as with all the rest of his crops, he has been unusually successful in increasing yield per acre. At the right, Mr. Peek and his Conoco Agent enjoy a chat.

Pork Chops in Sour Cream

by Mrs. J. H. Lowe
R.F.D. #2
Greeley,
Colorado



4 pork chops, 1-inch thick
 $\frac{1}{2}$ cup water
 $\frac{1}{2}$ bay leaf
2 tablespoons vinegar
1 tablespoon sugar

$\frac{1}{2}$ cup sour cream
 $\frac{1}{4}$ teaspoon savory (optional)
cloves—1 per chop
salt, pepper and flour

Dredge chops in seasoned flour. Insert 1 clove in each. Brown lightly in hot fat. Place in baking dish. Combine other ingredients, heat, and pour over chops. Cover dish and bake in a moderate oven (350 degrees) about an hour.

SHEARS FOR RECIPES!

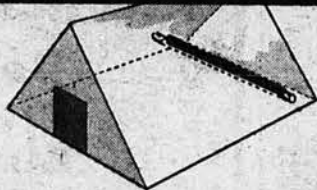
Send your favorite recipes to Mrs. Annie Lee Wheeler, Dept. E, Conoco Cafeteria, Ponca City, Oklahoma. A \$7.50 pair of Wiss Pinking Shears awarded for every recipe published with your name. All recipes become property of Continental Oil Company.

Eat Less! Run Better! Live Longer!

50,000-mile road tests of grueling desert driving, with 1000-mile oil changes and proper filter service, proved that engines lubricated with CONOCO Super MOTOR OIL delivered gas mileage 99.41% as good for the last 5000 miles as for the first 5000. And—engines showed less average wear than 1/1000 of an inch on cylinders and crankshafts! PROOF that CONOCO Super MOTOR OIL, with Oil-Plating®, helps engines eat less gasoline and oil—run better—live longer!



"A beveled 2 x 4 almost as wide as truck or wagon bed, assembled as shown, makes it easy to unload corn without a hoist," says Robert Schaffran, Route #2, Wabasso, Minnesota. "Make handle longer than bed. Push hook under corn and pull back to unload."



"This rail is easy to install or remove and it stays put," says Leroy J. Treece, Route #1, Sweet Springs, Missouri. "Use 1 $\frac{1}{2}$ " or 2" pipe, bore holes in each side centered 8" from floor and 12" from wall. Hold in place with coupling or pin on each end."

Send your original ideas to The Tank Truck, Dept. E, Continental Oil Company, Ponca City, Oklahoma, and get a genuine \$10.25, D-15 Henry Disston Hand Saw for every idea that's printed!



CONOCO

**YOUR
CONOCO MAN**

Has a Full Line of Farm Products Including:

Conoco Gasolines	Conoco HD Oil
Conoco Kerosene	Conoco Transmission Oil
Conoco Tractor Fuel	Conoco Pressure Lubricant
Conoco Diesel Fuel	Conoco Super Motor Oil

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