

Kansas Farmer

Copy 2



WATERSHED FLOOD control starts with proper land use, soil conservation and gully control. This gully on a Miami county farm gave plenty of trouble before being brought under control.



HERE IS SAME gully from same angle after combination stock-water, flood-control reservoir was built and gullies smoothed and seeded to grass.

Flood Control Job Is a Big One

Many folks believe we must do more to help ourselves in whipping this problem

Editor's Note: First in series of stories in which Kansas Farmer will discuss major flood-control programs, present the need for some state legislation, and point out water problems not getting attention they need. To get these stories we interviewed and corresponded with many persons whose interest in water and its use must be considered for a well-balanced water management program in Kansas.

THERE is growing belief among many persons in Kansas that we must do more for ourselves on water management. They believe the job ahead is so big and so complex it cannot all be left to the Federal Government. Then, too, they point out wherever possible, all or part of the cost should be borne by local interests, and that control over projects should be kept close as possible to people most affected.

"Both experience and research clearly indicate land and water resources cannot be divorced for consideration without sacrifice of either functional efficiency or economic feasibility, or both," it was pointed out to the President's Missouri River Basin Review Board by Dwight Payton, president of the Kansas Watersheds Association, and Glenn D. Stockwell, of the Blue Valley Watershed Association. They also called the com- [Continued on Page 42]



SEVENTY ACRES drain into reservoir, which functioned perfectly during 1951 heavy rains. Water went over emergency spillway only once. (All three pictures above courtesy Soil Conservation Service)



LEADING PART in getting watershed legislation material prepared has been taken by Dwight Payton, Overbrook, president of Kansas Watersheds Association. (Picture courtesy Topeka Daily Capital)

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- It's Fun Painting Furniture Page 30

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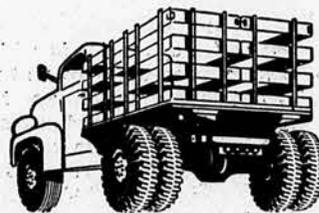
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**MARKETING
VIEWPOINT**

LEONARD W. SCHRUBEN, Feed Grains

Are prices of other agricultural commodities affected by changes in price of wheat?—W. E. H.

Wheat is such an important crop in the United States any major change in price is certain to affect prices of other agricultural commodities. Some commodities are affected directly, like corn or grain sorghums, and others indirectly.

For example, suppose wheat were priced on the market at \$1.75 per bushel. It can be fed to livestock in place of corn. Thus, livestock feeders will buy wheat to feed when it is an advantage to do so. With wheat selling at \$1.75 per bushel, how much could owners of corn expect to receive if they sell their corn? To the feeder of livestock, corn would be worth between \$1.50 and \$1.60 per bushel. Any higher price would induce feeders to substitute wheat for livestock feed. Milo would be worth about \$2.50 per hundredweight on the same basis.

Wheat is used primarily for human consumption, but also is an excellent livestock feed. Prices for wheat are generally such as to discourage feeding wheat, except for poorer grades. As a result, the potential market outlet is not fully realized. However, any major decrease in wheat prices is soon felt in other parts of our economy.

What is the value of ear corn compared to other feeds?—D. R.

According to nutrition researchers, on the basis of its feeding value and with good alfalfa hay selling for \$45 per ton, one would be justified in paying \$2 per bushel for No. 2 ear corn. Likewise, with milo selling at \$3.10 per hundredweight, one could pay up to \$1.90 per bushel for ear corn. Have you seen Report No. 5 entitled *Winter Feeding Problems, 1952-53* prepared by Kansas State College? If not write for one. It will help you out.

Honor Doctor Mott

Honored February 10 at meeting of National Farm Loan Association, at Herington, was W. H. Mott, secretary-treasurer of the association for the last 31 years.

Doctor Mott, 83, is retiring this year, and about 800 Kansas farm people and friends paid him tribute. He operates a large dairy between Herington and Marion.

Name CROP Officers

Named to head the 1953 Kansas Christian Rural Overseas Program (CROP) is J. D. Smerchek, Manhattan, secretary, Kansas Farm Bureau. Publicity chairman is Lisle L. Longsdorf, Extension publicity director, Kansas State College, Manhattan.

KANSAS FARMER

Continuing Mail & Breeze

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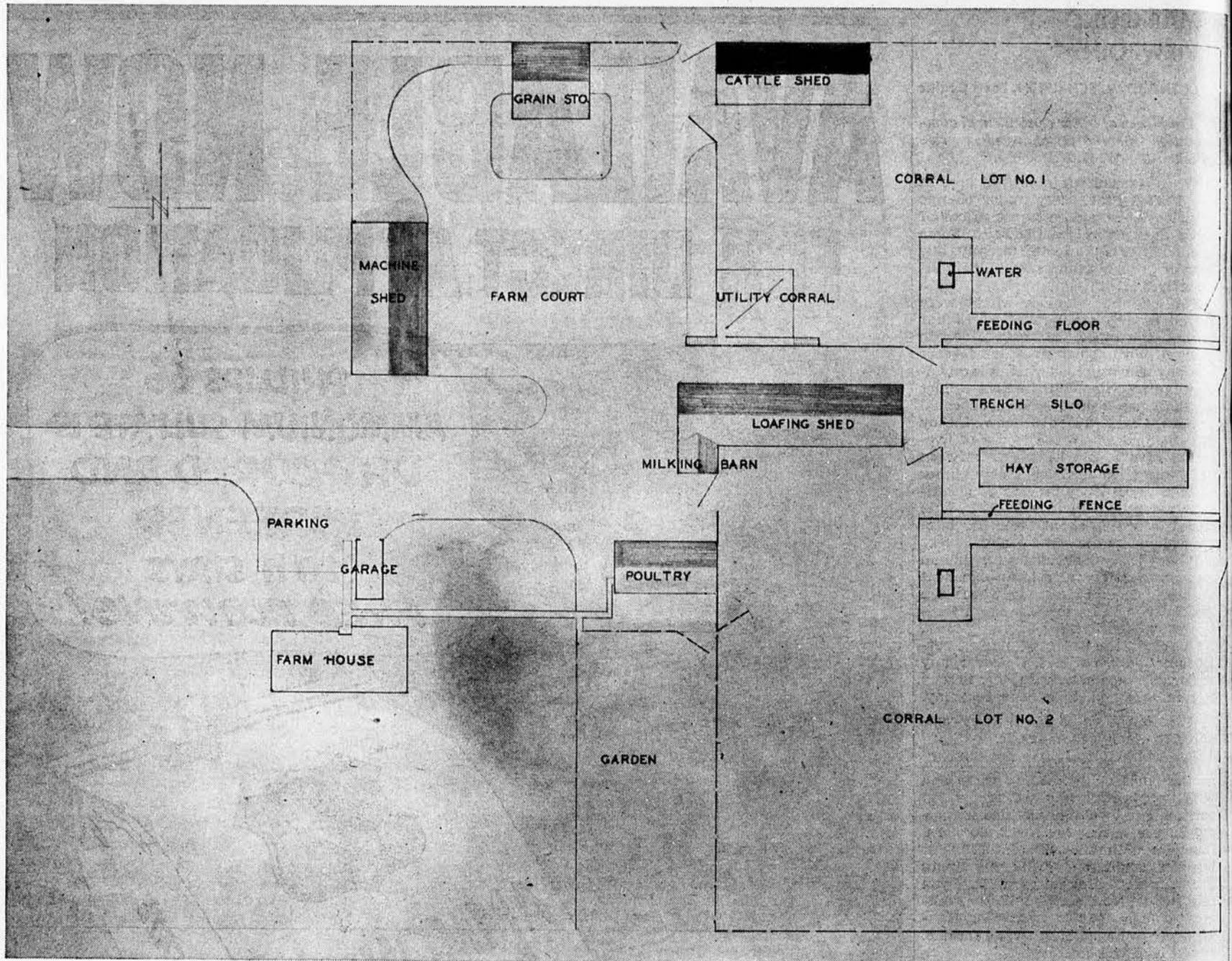
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THIS IDEAL farmstead layout, designed by Kansas State College Extension specialists, offers many advantages in getting maximum service from buildings and facilities.

Here's an Ideal Farmstead Layout

By **DICK MANN**

Editor's note: This is second of 2 stories on designing a farmstead. First story, in February 7 issue of Kansas Farmer, outlined 3 basic steps to follow. This story details some of features or results obtained by following recommendations made in previous story.

DESIGNING your farmstead around a farm court offers many advantages. The ideal farmstead layout shown here represents the combined thinking of Leo T. Wendling, Extension agricultural engineer, and Raymond L. Everson, Extension architect, both of Kansas State College. They drew up these plans after studying farmsteads in all parts of the state. In conducting farmstead planning schools, Mr. Wendling and Mr. Everson also draw upon the help of Charles E. Parks, landscape architect, and Harold Gallaher, Extension forester. We are not attempting to show the landscaping needs in this story, as we are concerned here only with the basic design and how it works for your benefit.

You will note by the design that the farm home is first building reached when coming onto the farmstead. This is recommendation No. 1 by Extension specialists. You will notice,

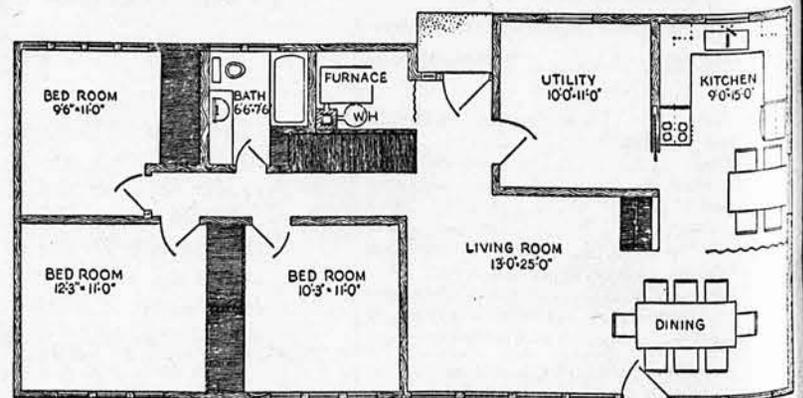
too, that a setback parking area in front of the house has been provided. This is so visiting cars will not block use of driveway. A walk from parking area leads to front door of the home.

As you drive past the house to the farm court you find farm buildings are grouped around the court according to use and with full consideration for prevailing winter and summer winds. General farm buildings are to the west and north, with poultry and livestock buildings and lots to the east. There is room in the farm court to turn machinery around without backing, and every farm building can be entered directly from the court.

A close study of the farmstead layout will show you how much attention has been given to forming a traffic pattern. Openings off the farm court allow you to enter fields or pasture without going thru any lots. Silage and hay

By using this pattern, changing where needed to meet your needs, you can have a modern set-up that will save time and labor

storage are planned so they are centrally located between 2 lots. By using feeding fences next to the storage area, cattle can be fed without entering the lots. A utility corral with loading chute and [Continued on Page 38]



THIS 3-BEDROOM farm home has been designed by Raymond L. Everson, Kansas State College Extension architect, to meet needs of an average Kansas farm family. No blueprints are available, but the floor plan shown will help you in your home planning.

Kansas Farmer

News and Comment

For a Premium Price

THE 4-DAY CREAM plan in Kansas "has done more to improve quality of cream and butter than any other program," according to the Kansas Butter Institute. Yet this same plan has been misunderstood more than any other.

This 4-day cream plan is simply a move designed to improve cream quality. It has succeeded in doing that, not by penalizing farmers who didn't wish to comply with the plan, but by offering a premium to those who could. The objective is to increase cream quality, thereby the demand for Kansas butter, bring about increased income to Kansas cream producers.

While the great majority of Kansas dairymen do market good cream, a small amount of unsanitary cream mixed in with other cans will cause loss of quality and lowering of price for everyone. Faced with low-quality cream and low prices that went along with it, the 4-day cream plan was put in effect.

By bringing cream in from the farm within 4 days of your last delivery, you receive a premium, which averages around 4 cents a pound of butterfat. The premium encourages you to market your cream earlier, bringing in a higher quality product.

There is nothing compulsory about the plan—you do not have to deliver cream within 4 days and you do not have to leave the tag on the can. The plan is simply a way of saying, "We need high-quality cream. We will pay you extra if your cream meets the requirements."

The tag indicates to the buyer that the shipment is made within 4 days. What happens if you remove the tag? You receive payment for only first- or second-grade cream, and forfeit right to receive premium for 4-day cream.

Three organizations have endeavored to make the plan a success—the Kansas Butter Institute, Kansas State College, and the State Board of Agriculture. The plan was adopted August 1, 1950. It is supported entirely by funds from the Kansas dairy industry.



We Salute 4-H Clubs

THIRTY THOUSAND Kansas 4-H Club members join with thousands in other states celebrating National 4-H Club Week, March 7 to 15. We join the millions of adults thruout the Nation who salute this great organization for its ideals and accomplishments. No Kansas farm family needs to be told 4-H Clubs are worthwhile. You see this every day in the enthusiasm of young members in your neighborhood. You see them at work with their various projects, taking part in community activities, competing in keen competition at fairs and livestock shows. They learn by doing, engaged in work that builds the finest citizens.

Our 4-H Club leaders in Extension service at Kansas State College, in your county Ex-

tension office, and those 6,810 adult leaders and 3,859 junior leaders who volunteer their work in their home counties are teaching young people latest developments in farming, homemaking, and the right kind of living. We know they must find great inspiration in seeing the fine progress our young folks in club work are making. All their lives these leaders can feel they have contributed wisely and well to the intelligent accomplishments of our farm youth. We are very, very proud of these leaders.

And we are equally proud of all 4-H Club members. They take their work seriously and give a good account of themselves no matter where they are. You have read with keen interest the letters our 4-H'ers wrote to you in *Kansas Farmer* from various countries in Europe. They can meet the world and make us proud of them. At national events like the 4-H Club Congress in Chicago, they earn the respect of all who see and contact them. In our home communities we know our 4-H'ers for their sincerity of purpose and excellent results obtained. In 1952 our 30,401 boys and girls enrolled in 4-H Club work in Kansas carried 64,216 projects which had a gross value of \$7,003,532. Cost of handling their projects was \$3,847,243, leaving a net profit, or increase of new wealth in the state, of \$3,156,289. And that is only the money end of it! All other fine qualities and rewards of personal improvement and achievement are in addition.



U-m-m-m-m, Baked Potatoes!

WHEN WE WERE kids, a friend said, we took potatoes to school on winter mornings. We had a furnace in the basement and the janitor put our potatoes in the hot ashes under the firebox. By noon they were baked just right. When we took them out of the ashes they simply smelled delicious. Honestly, you never tasted anything so good!

That sounds pretty much like the first "hot school lunch program." But what we would like to know is when the first hot school lunch program really did start in Kansas rural schools. Please think back, friends, and drop the editor of *Kansas Farmer* a note telling when your school began serving warm noon meals of any kind to rural school pupils.



Strange Price Support

THE FEDERAL GOVERNMENT in the last 2 months has imported an amount of dried whole milk powder equivalent to about 13,000,000 pounds of butter. At the same time, in order to stabilize the price of butterfat here at home, the Government has purchased about 13,000,000 pounds of butter. In other words, the Government has put just as much butter in storage as it imported from other countries.

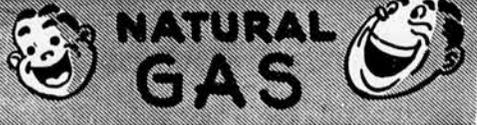
This information is taken from a report by Rolla B. Holland, Kansas State Dairy Commissioner, before the annual meeting of the Kansas State Board of Agriculture.

Our Kansas arithmetic may be wrong, but this doesn't appear to be the way to stabilize the price of butterfat or anything else. Since cows are milked on three fourths of our Kansas farms, anything that affects the price of dairy products is of keen importance to our state.



What's Your Question?

ASK ALMOST any kind of question and you will get the right answer from your Kansas State College. Prepared to provide Kansans with about 150 services, the college will assist and advise on such technical problems as trapping Japanese beetles, locating chemical in-



NATURAL GAS

"Biggest room in the world is the room for improvement."

• •

"Leaves begin to turn—on the night before exams."

• •

"Do you suppose fish talk about the size of bait they got away with?"

• •

"The girl who marries a young man with money to burn probably is a good match."

• •

"Benefits of early rising are especially noticeable to the children—on the mornings you can stay in bed."

• •

"A man can be too polite—suppose he's a deep sea diver and tips his hat to a mermaid!"

• •

"Best doctors in the world are Doctor Diet, Doctor Quiet and Doctor Merryman."
(Jonathan Swift, Polite Conversation, 1607).

dustries, explaining the city manager form of government, advising city commissions on city planning, community buildings, civil defense mobilization, furnishing special low-cost diets, and how to buy food for large groups.

K-State technicians will give assistance on nearly all plant and animal diseases. On thru the list of services are employee morale surveys, kitchen planning for hospitals and community buildings, landscaping buildings, streets, and parks; conducting opinion polls, performance ratings to evaluate employees, various tests for animals, rabies examinations, testing and inspecting road materials, translating French, German, Hungarian, Italian, Portugese, Russian, and Spanish; weed control, welding, water treatment, tests for irrigation.

Inquiries about the services, President James A. McCain's office has indicated, are to be addressed to the Director of Public Service, Kansas State College, Manhattan.



Don't Miss . . .

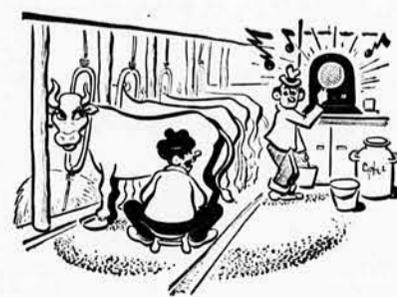
ONE OF OUR good friends is back again in this issue with the first of 3 articles about apples. This one tells about apples for health. Next will come Kansas apple varieties, and to finish the trio will be apples in other times and places.

The author is J. S. Brazelton, of Troy. Certainly he is one of the experts of the state on this subject. He virtually grew up in an orchard as his parents grew and shipped apples when he was a boy. He moved to his present farm in 1920 and has grown fruit ever since. Before the well-remembered Armistice Day freeze in 1940, he had more than 60 acres in apple trees.

Just as a reminder, Mr. Brazelton started writing for *Kansas Farmer* in 1935. No doubt you read his water shortage article in the November 15, 1952, issue.



"Say Whoa!"



"Shut That Guy Off—He's Curdling Their Milk!"

KANSAS STATE UNIVERSITY LIBRARY

Let's All Get Better Acquainted With Our Board of Agriculture

By HENRY S. BLAKE, President and Publisher, Capper Publications, Inc.

YOU WILL BE INTERESTED in some things I've found out about our Kansas State Board of Agriculture, with headquarters at the statehouse in Topeka. Its recent annual meeting in the Capital City in January was so successful it made me want to know the Board more intimately. What is it? What does it do? How important is it to you as a farmer?

It is one of the oldest, most highly-respected departments of our Kansas government. While working closely with the executive branch, it draws its policies from the "grass-roots." It looks to farm people for practical guidance.

Kansas law provides for an annual meeting of the State Board of Agriculture. It is held in January each year. This meeting, in reality, is a state-wide agricultural convention. As specified by law, official delegates to this farm convention represent all phases of the state's agriculture. They are elected by major county farm organizations,



HENRY S. BLAKE
President and Publisher
Capper Publications, Inc.

county fairs, crop improvement associations, master farmers, state livestock breed associations; all recognized farm groups.

The convention fully represents the state farming populace, every county has a representation of one or more delegates. These farm delegates are authorized by law to elect members of the board, who direct policies of this important state department. The Board consists of 2 members from each congressional district, a total of 12.

These members of the Board, as specified by law, are genuine farmers. They elect a president, vice-president, and treasurer. A secretary, who serves as executive officer, is named by the members.

The Board of Agriculture is an outgrowth of the Kansas Agricultural Society, formed by Kansas farmers in 1857 when Kansas was still a territory. In 1872, the organization was changed by law into the Kansas State Board of Agriculture.

Under supervision of its 7 different secretaries, particularly the late J. C. Mohler and the capable young man now at the helm, Roy Freeland, the Board has shown the capacity and ability to advance with the increasingly complex developments in the state's agricultural economy.

Today, the Board administers more than 40 laws to protect our farmers, industries, and consumers of agricultural products; particularly for safeguarding farmers. Main work of the Board of Agriculture is administering laws relating to agriculture. An active working staff under Roy Freeland is in charge of this.

Seven divisions, which administer laws protecting Kansas people against

unjust practices, provide the organization necessary for properly carrying out these functions. These include:

1—DAIRY division, with inspectors working under state dairy commissioner, administers dairy laws of state. Constant inspection is maintained at creameries, all places selling and handling milk and other dairy products, to keep Kansas dairy foods clean and desirable for human consumption.

2—WATER RESOURCES division administers laws relating to floods, drainage, domestic water supply, irrigation, levees and control of all waters in state.

3—WEIGHTS AND MEASURES division is in charge of testing all weighing and measuring devices, including livestock and vehicle scales, small-capacity scales, also liquefied petroleum gas meters in the state. This division checks weights and measures of packaged commodities.

4—NOXIOUS WEEDS division, with county weed supervisors, administers laws on weeds declared noxious in the state—bindweed, hoary cress, and Russian knapweed. In some counties, Johnson grass is declared noxious. This division works in co-operation with county commissioners.

5—CONTROL division administers honest labeling laws pertaining to seeds, feeds, fertilizers, agricultural chemicals, and livestock remedies. Samples are collected and tested for accuracy of labeling.

6—MARKETING division promotes market outlets for Kansas agricultural products and provides official grading and inspection services.

7—STATISTICAL division is operated in co-operation with the Federal Department of Agriculture. It collects information on condition of growing crops and harvests, and on livestock and its products.

Kansas State Board of Agriculture has been a leader in advancing Kansas



ROY FREELAND, secretary of Kansas State Board of Agriculture, examines ear of corn in irrigated field in Smith county. Field draws water from north fork of Solomon river. (Topeka Daily Capital photo, Harold Lyle.)

agriculture—by promoting merits of our famous hard red winter wheat, introducing grain sorghums which have added safety to all Great Plains farming not before enjoyed, emphasizing a balanced-type of farming in which livestock is a dominant factor, introducing new methods, new crop varieties, and new machinery suited to Kansas.

Many legislative enactments of Kansas of direct benefit to agriculture have originated in the Board of Agriculture. Many bills detrimental to the best interests of agriculture have been forestalled. The Board's influence and prestige have been felt in Congress on measures of National significance.

A popular service the Board provides is the series of books issued by the department. All have won wide acclaim. Among these are "Wheat in Kansas," "Trees in Kansas," "Birds in Kansas," "Soil Conservation in Kansas," "Insects in Kansas." In addition, a historical record of the state's agriculture is



MEMBERS Kansas State Board of Agriculture. Left to right: Paul A. Wempe, Seneca; Lew H. Galloway, WaKeeney, vice-president; Donald Christy, Scott City; R. C. Beezley, Girard; Milton E. Rohrer, Abilene; Paul Ijams, Topeka, assistant secretary; Roy Freeland, Topeka, secretary; William Condell, El Dorado, president; Elmer McNabb, Pleasanton; Herbert H. Smith, Smith Center; Harold E. Staadt, Ottawa; Walter A. Hunt, Arkansas City; Everett E. Erhart, Stafford, treasurer; Perry H. Lambert, Hiawatha. (Photo by Harold Lyle, Topeka Daily Capital.)

provided by publishing, every 2 years, the Biennial Report of the State Board of Agriculture, which lists significant agricultural developments.

Success attained by the Board of Agriculture has been due, in large measure, to selecting men of judgment and vision who have served its membership. The 12 farmer-members of the

Board and their administrative staff are a credit to the state's agriculture, and to the foresight of the creators of the law forming the Kansas Agricultural Society.

I hope this information will help you feel closer to the Kansas State Board of Agriculture. I am sure I know it better as a vital force in farming progress.

That Sickly-red Color of Oats Found to Be Caused by a Virus

FOR the last few years oats growers have been concerned about the large amount of sickly-red color in oats leaves in spring according to Claude King, Kansas State College, Extension plant pathologist. In 1949 the trouble reduced the Iowa oats crop 15 per cent, but since reduction has been less.

In 1951 the trouble was severe in Kansas oats, but not severe in 1952 due to weather differences. Iowa State College Plant Pathologists, V. E. Wilson and H. C. Murphy, have just announced they have discovered the condition is a virus disease.

Oats are very important in Iowa and these workers tried several years to transmit the trouble mechanically without success. But with more work they found the condition is a virus disease which can be transmitted by the apple-grain aphid and also that it is readily soil transmitted. However, they were unable to get the disease transmitted by planting seed from infected plants in sterilized soil. This virus disease is

systemic, and is more severe under conditions of low temperatures and direct sunlight.

There is no variety available at present for Kansas farmers which has high resistance to the virus disease. The best growers can do for 1953 is to plant varieties of Cherokee, Nemaha, or C. I. Strain 4988 of Missouri 0-205. Since this red leaf virus is soil-borne it might be best to plant oats in a field which has not been in oats recently.

None of the oats varieties are immune to smut but in general have good resistance. Treating the seed with Ceresan M, New Improved Ceresan, or Panogen will give enough more plants to more than pay for the fungicide, and will give smut control so the seed should be treated. Directions on the fungicide package should be followed. A good treater such as a barrel treater, auger loader, or cleaned-out custom treater should be used. It is not satisfactory to mix the chemical and oats with a paddle in the drill box.

THEY HUNT ACCIDENT TRAPS



MEMBERS OF CULVER 4-H Club, Ottawa county, recently toured farms to inspect them for hazards and to look over club projects such as these hogs being raised by Gay and Dean Dewey, Culver. Club brought many hazards to attention of farmers in community. Abandoned well which had been filled in dry weather had sunk over a foot yet was hidden in weeds, sharp objects and machinery hidden in weeds. Culver boys and girls also responsible for stop signs being erected at "blind" corners in community.

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When work is crowding and help is scarce, you get real cash value from the extra comfort, convenience and capacity built into Case Eagle Hitch Tractors. You save get-ready time, gain productive time with one-minute hook-up. Constant Hydraulic Control helps you keep going without tiresome stopping and shifting. So does the Case high-torque, heavy-duty engine with its power to pull through tough spots at reduced speed. Shock-free steering lets you go right along in rough ground, spares you from bruised hands and aching arms. There are three sizes, many models of Eagle Hitch Tractors. Start now to save labor, gain time. See your Case dealer about the tractor that fits your farming. Arrange for a personal demonstration.



Low Seat • Full Crop Clearance

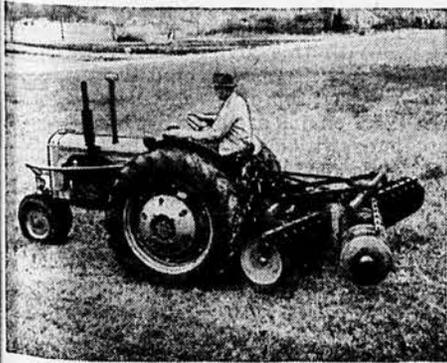
Newest of modern tractors is this "low seater" in the Case 2-plow "VA" Series. Step onto low platform ahead of fender—no climbing over rear-mounted implements. Use either "look ahead" cultivator up-front or sweeps and shovels on Eagle Hitch. Widely adjustable wheel-tread, front and rear, to fit most any row spacing. Choice of tail-pipe or upright exhaust.



Full-swing drawbar stays on tractor, ready to pull wagon, spreader, grain drill, any trailing machine. No interference between drawbar and most Eagle Hitch implements, no delay in changing from mounted to pull-type equipment any time you like.

ONE-MINUTE HOOK-UP SLIPPING DOWN

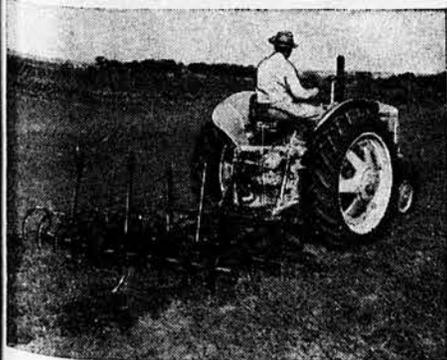
Stay in the driver's seat! Back up to rear-mounted plow, disk harrow, roller-packer, utility carrier. Let self-closing claws of Eagle Hitch take hold of implement. Slip pin into depth-control link . . . pick up implement by hydraulic control . . . and GO. Eagle Hitch has floating action that tends to maintain uniform depth—does better work than ever before possible with rear-mounted plows.



Eagle Hitch tandem disk harrows lift clear to back into corners or travel without touching. Shown on 3-plow "DC" Tractor is new "E88" Harrow. Front and rear gangs have separate crank screws for quick, accurate adjustment of cutting angle.



Eagle Hitch Break-Away Contour Plows uncouple on striking stump or stone, recouple by backing tractor, guard against damage. Pivotal action from point in plow keeps all bottoms cutting correct width on contour curves or round corners.



Eagle Hitch Springtooth Harrows lift clear at a touch of Constant Hydraulic Control . . . moving or standing . . . to drop trash or travel without touching. Floating action and flexible design permit uniform penetration in uneven ground.



Eagle Hitch Toolbar Tiller takes teeth, sweeps, etc., for diverse tillage jobs. New low-seat tractor has exceptional stability on side slopes, ideal for renovation of hill pastures and all work on contoured farms.



Get the picture story of this brilliant new way to farm—how its several features work, how it speeds and lightens your work, how it makes your farming more productive, more rewarding. Free with coupon below.



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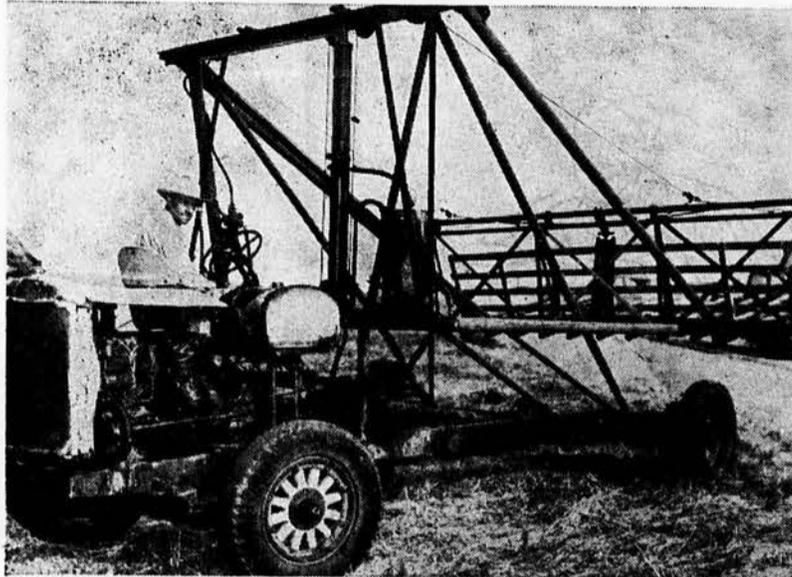
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For "What is Eagle Hitch Farming," also catalog or folders, mark here or write in margin any size tractor, any implements that interest you. J. I. Case Co., Dept. B-47, Racine, Wis.

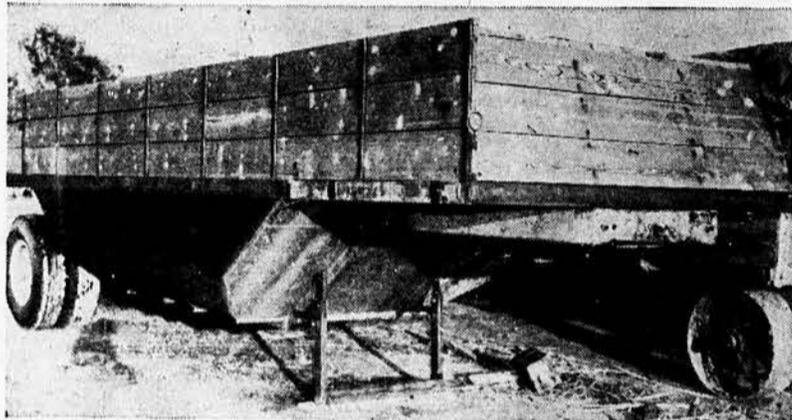
- Eagle Hitch Tractors—
- Low-seat 2-plow Model "VAC"
 - Big 2-plow "SC"
 - 3-plow "DC"
 - Eagle Hitch Implements
 - Manure Spreaders
 - 4-5 plow "LA" Tractor

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Good Ideas Put to Work Save Time and Labor for Kuhrts



PAUL KUHRT is shown operating stacker, mounted on reversed truck chassis, to rake, stack and feed all with one outfit.

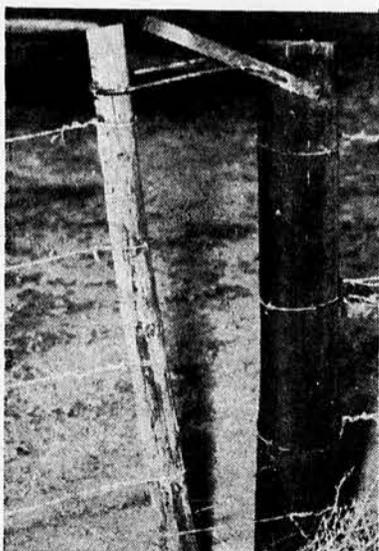


LOW CENTER of gravity gives this grain trailer extra capacity, greater maneuverability, and more efficient operation. Paul Kuhrt says "Elevator men are always glad to see us come in. We can drive right over bin door and empty the trailer in no time."

TRIED AND PROVED ideas assembled, Paul Kuhrt, Edson, explains, have given Paul, Eugene and Emile Kuhrt some excellent equipment to make their farming jobs much easier.

Given credit for being the handiest machine with the most uses they have developed is a stacker. It is a hydraulic fork mounted on a regular truck with the rear end upside down to get forward motion and the chassis reversed. GMC axle was extended 4 feet wider than standard.

Advantages are that base of stacker is 3 feet higher than it would normally be if mounted on a tractor. This gives extra lifting height—to about 26 feet. Too, the motor is away from the fork



TO OPEN, bar is easily raised and rod around gate post quickly slips off. No danger of cattle working their way out of it, yet inexpensive gates are easy to go thru. Latch is easily made in farm shop.

and out of the dirt, for cleaner operation.

A live shaft driving the stacker gives a lot freer operation. "We can clutch in until the fork reaches the desired height, then go ahead," Mr. Kuhrt explains. "We also can rock and lift a load at the same time."

Two hydraulic forks are used. The lighter fork is used to put hay onto stack, has push-off device and will go

Thanks for Writing

Are there a lot of good things in my issue of *Kansas Farmer* in mail today! I like all of Capper's papers, read part of Weekly yesterday, I love them.—Mrs. Wade Amos, R. 3, Newton.

higher. Teeth are 11 feet apart, 12 of them. Fork works fine as a rake, too. The hay lies flat, doesn't get rolled up as it would in a windrow, keeps better and is easier put up, lies smoother and closer together.

Heavier set of teeth is used for getting hay out of stack. Torque tubes are used for teeth. (Torque tubes are enclosed drive-shaft housings found on Model T's and A's.) Their advantage is their strength yet light weight and their tapering from 3 to 2 inches end to end. Three-and-a-half feet of pipe were welded on the end to be long enough and tapered all the way. "An efficient and skilled operator can carry a load a minute," Mr. Kuhrt explained of the stacker. It runs at a regular speed of 10 miles an hour and the Ford 6 motor can be opened up to go faster if desired. It proves to be the Kuhrts' cheapest method of making hay.

The stacker has other uses, too; among them, lifting heifers that go down in the pasture.

It was built 4 years ago. Before that a homemade buck was used with track going straight up. This was replaced with a motor buck with tilting teeth which Kuhrts liked better.

Paul Kuhrt developed his interest in machines and mechanical ideas about the time the first tractors were coming out. He couldn't see having a whole corral full of horses going idle, so he worked out some 18- and 19-horse



WHEN CLOSED, this gate fastener holds wire plenty tight. Mr. Kuhrt is just finishing closing it.

Have You Noticed?

Only members of the cud-chewing or ruminant family (cows, sheep, goats, cattle, deer, giraffes, antelopes) rise hind legs first? Getting up on their front legs first are all other large 4-footed animals.

hitches that would handle the size machinery he wanted to operate. Experience of developing these hitches aroused an interest in mechanics.

Another effort saver is the Kuhrt grain trailer. By carrying two fifths of the load below ordinary floor level, the semitrailer is easier to handle, requires less effort than common dump truck to unload. Too, a board floor can be laid in it to give a level bottom trailer. It will carry 530 bushels at 60 pounds per bushel. Hoppers in bottom opened by levers on side make it easy to unload right over elevator bins and quickly too. Kuhrts plan a steel top for it.

The low center of gravity idea carried over to a cattle trailer, too. Kuhrts bought a semitrailer troop transport, removed seats and other inside fixtures and walled up inside. Cattle enter almost at ground level so it's easy to load and the capacity of the trailer is amazing. The elevated area over the hitch is used to haul calves which go up a sloping runway. Kuhrts use the trailer chiefly to haul cattle to national stock shows.

And ideas for increased efficiency

are in evidence even down to a 42-inch 3-speed transmission riding mower with rotary blade for lawns, and a gate-fastening idea that the first dozen times it was used paid in full for time and materials required.

Kuhrts always start with sound mechanics and they know their ideas will work before they put them to use, so no time is wasted with makeshift arrangements.

Kansas Hybrids Place

Some Kansas hybrid seed corn placed high in 1952 performance tests of corn varieties and hybrids by the Oklahoma Agricultural Experiment Station.

Tomson Brothers, Wakarusa, had 5 hybrid seed varieties in the tests, had some high place winners. Tomson K-2234(w) placed first in yield performance in a Payne county test. Same variety placed 3rd out of 49 in Tulsa county test, and 4th out of 49 in a Seminole county test. Tomson 13 variety placed 6th out of 49 in a Garvin county test.

Got His Best Stand of Red Clover by Changing Planting Method

TOM CHURCH, of Anderson county, likes to seed red clover with wide-spaced oats but always has had trouble getting a good stand of clover. He finally decided the reason for this was his clover seed was being buried too deep by the disks and drag chain on his seeder.

Last year he tried an idea being used in Ohio. This consists of tying sections of rubber hose to the seed flutes. These sections of hose then were carried to a

position behind the disks and held in place by pipe strap hangers. The Experiment Station originated method.

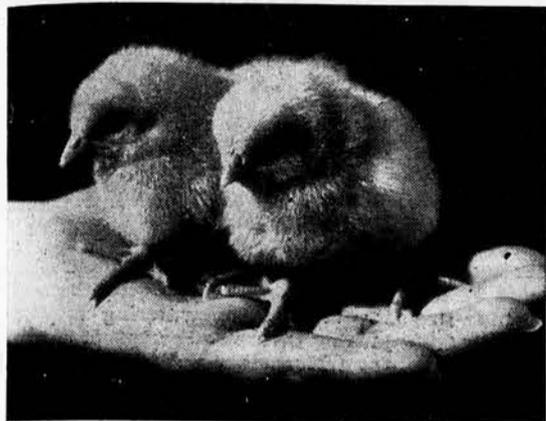
With this arrangement, the clover seed is dropped behind the disks and right on top of the fertilizer band. No drag chains are used but a cultipacker is drawn behind the drill. He uses 200 pounds of 10-20-0 an acre as fertilizer.

Results have been very good. Mr. Church got the best stand of red clover last year he has ever had.



CLOVER SEED is dropped onto fertilizer band behind disks on seed drill by means of rubber hose attached to seed flutes, and held in place behind disks with pipe strap hangers. No drag chain is used but seed is packed down as packer runs over it. Tom Church, Anderson county, gets a better stand of clover using this seeding method in conjunction with wide-spaced oats.

Stop losing chicks to poor nutrition and Coccidiosis epidemics:



Chicks need help right from the first day, to live through the critical early period. Read the facts below on a new improvement that gives chicks two-way help to live through attacks of the most deadly of all chicken diseases . . . and grow fast toward a big, uniform flock.



Thank the broiler raisers in Arkansas and Georgia. They tested the power of a new wonder drug for fighting killer Coccidiosis. It proved effective on hundreds of thousands of birds. Now you can get this same protection in Nutrena Chick Starter—ready to go to work in the chick's very first bite of feed. Read below how it has been combined with full power antibiotic and Vitamin B-12 to give you new Life-Saving Livium.

We had high livability records last Spring, but now

New Life-Saving Livium Helps Even More Chicks Live

New improvement in Nutrena Chick Starter combines Antibiotic and Vitamin growth power with new wonder drug to fight Coccidiosis.

If you should lose just ten chicks this Spring, it could mean many dollars out of your pocket. Losses add up fast when you consider the cost of chicks and feed—and then the eggs they might have laid for you.

Are these losses necessary? There certainly is no absolute guarantee against losing chicks. But there are new feed developments that give you a better-than-ever chance to avoid such loss.

One of these is called Life-Saving Livium. We think it will help more poultry raisers get 100% livability than ever before—or at least such high livability that pocketbooks won't be hurt.

This new Life-Saving Livium does two important things for you:

1. **Helps start baby chicks fast.** It supplies the nutrition and growth power needed to help build strong, vigorous chicks . . . free from many common ailments caused by faulty or poor nutrition.
2. **It fights killer Coccidiosis.** Prevents serious outbreaks or epidemics. Allows chicks to build

natural immunity to this number one bird killer. And it cuts down Coccidiosis culls.

Life-Saving Livium is a new combination of the latest advances made by poultry science. You can now get it in Nutrena Chick Starter. It is stepped-up with guaranteed effective amounts of one of the best chick-type antibiotics. It's loaded with all other nutrients chicks are known to need. And contains a new wonder drug to help stop costly losses from Coccidiosis.

Coccidiosis infection often coats the digestive tract and acts like a barrier to nutrition. But with Coccidiosis under control, the nutritional ingredients in Nutrena Chick Starter can now be more effective than ever.

The antibiotic, Vitamin B-12 and other much needed nutrients then have a better chance to get thru the barrier and into the blood stream. And tests showed the chicks getting this wonder drug actually grew faster than those not getting it.

What more could you ask of a chick starter? Life-Saving Livium in Nutrena Chick Starter gives you: (1) guaranteed effective amounts of antibiotic growth

power plus the other known essential vitamins and minerals. (2) a new proven wonder drug for fighting Coccidiosis.

If you want to go after high livability, isn't it time you tried Nutrena Chick Starter?

*Livium is a trade mark product of Nutrena Mills, Inc., Minneapolis, Minn.



Why not see what Life-Saving Livium in Nutrena Chick Starter can do for you this Spring! Join the thousands who go after high livability with Nutrena. Look for it in a new bag. (ADVERTISEMENT)

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All gangs rigidly fixed at correct angle for best disk and leveling. No need to put weights on; rear gangs stay in ground and do as much work as front gangs.

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Kewanee makes seed beds level with gangs rigidly fixed at best angle for disking—does not bounce around—penetrates uniformly over entire cutting width. Over 97% of owners questioned say "Kewanee makes ground level...does more and better work with fewer diskings...pulls very easy...works fine in cornstalks...easy to shed every night... keeps disks polished to do good job."

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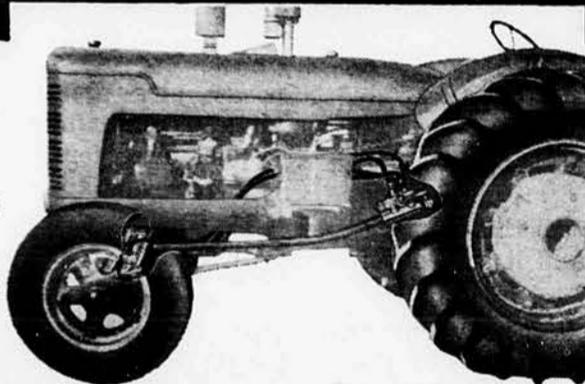
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MAIL TODAY

No. 6 in series of articles on how to grow house plants

Ever Hear About Cactus Clubs?

By FRANK PAYNE

DID YOU KNOW there are many large clubs of flower lovers who devote much spare time growing CACTUS for pleasure? They are such rabid fans they take long trips into the desert country of great southwest sections of the United States looking for new and rare specimens. It would just be my luck to find some healthy, man-size rattlesnakes if I were to do that. I guess I will stick to my dahlia growing and let well enough alone.

If these cactus fans don't find enough new kinds, they then devote a great deal of their time grafting one odd variety onto another just to get something different. They claim that is a lot of fun.

Anyway cactus are easily grown in your home. They can stand the hot, dry air of most homes if they are not watered too much. They require a soil of clay and sand, and not very rich either. Water only about once a month. When planting into pots use heavy leather gloves. I learned that when I potted a batch received from El Paso, Tex. The thorns are mighty mean when stuck into your fingers, hard to get out as they are so near the color of your flesh. There is no need to tell folks not to touch or handle cactus—they won't. Maybe once, but not the second time. The blooms are quite beautiful and one variety, the Prickly Pear type has a fruit after it blooms which is edible, but the thorns on the fruit must be removed before you attempt to eat it.

GERANIUM: This old-fashioned flowering house plant is beloved by all, yet there are more complaints about them failing to bloom than all other plants put together. It isn't the plant's fault, either. Everyone wants large plants with rich foliage and brightly-colored blooms in winter. But that is hard to get, because that is the time they take their rest, especially if they have been blooming all summer.

If you want winter blooms you must make cuttings and root them in summer, not allowing them to bloom at all. Then get a nice, sunny window in the kitchen to place them in. Too much

water in winter causes leaves to turn yellow and fall off. The steam in the kitchen seems to produce the right humidity and grows them to perfection much better than the hot, dry air of a living room.

If your plants have bloomed all summer, then you must give them their winter's rest by watering very little, putting them in a frostproof basement from November until February, then they can be brought up and allowed to come on for late spring and summer blooms. But never expect them to bloom all year around because they won't and you had just as well let it go at that.

I still recommend that you plant the common begonia if you want blooms all winter. They are not a bit stingy in winter, but take their rest when summer months are hot.

GARDENIAS and AZALEAS: If I didn't write about these 2 flowers someone would be sure to complain, because both are beautiful and much beloved. But honestly, folks, they simply cannot be grown very well in the home, so I will just tell you why and let them go at that.

It happens millions of these flowers are grown in greenhouses by commercial flower growers. They have just the right temperature, right amount of humidity in the air, right soil and many other things just to their liking. Only the best and most experienced growers are able to grow them successfully and get them into satisfactory blooming stage.

If you try to grow them in your home, buds are sure to fall off just about the time you get them ready to bloom. Then you have had all your trouble for nothing and there just isn't a bit of fun in that. This flower growing business is something like making Swiss cheese. Swiss cheese is something wonderful—I like it, too—but it's a lot easier to buy it ready to eat than to try and make it yourself. Consider these 2 flowers the same as Swiss cheese and let old-time, experienced folks produce them and you stick to something more easily grown.

Pay Tribute to Man Who Visioned Agricultural Extension Program

THE NATION will pay tribute, February 26, to the memory of an educator whose vision resulted in the foundation on which the educational program of the Agricultural Extension Service is solidly based.

It was on February 26, 1903, at Terrell, Tex., where Dr. Seaman A. Knapp, a U. S. Department of Agriculture employee, established the first farmer-conducted demonstration. On 70 acres of his farm, Walter C. Porter demonstrated crop diversification and improved crop culture according to Doctor Knapp's conviction that "learning by doing" was the best method of instructing the average person.

Texas in 1903 had appealed to Congress for aid because of serious damage caused by cotton boll weevil, claiming it had become a national problem. That fall the Secretary of Agriculture and other USDA officials visited the devastated area and Doctor Knapp's Terrell demonstration. Upon their recommendation, Congress made an appropriation of \$250,000 to combat the boll weevil. Doctor Knapp was given \$40,000 to continue his farm demonstration work.

So successful was the Terrell demonstration in showing farmers how to combat weevil and the advantages of crop diversification the demonstration plan of education swept rapidly throughout the Nation. In 1914, the Co-operative Extension Service law known as

the Smith-Lever Act was passed by Congress. The Kansas legislature in 1915 passed the law which provided for county Farm Bureau sponsorship of Extension work in the counties.

Director L. C. Williams, of the Kansas State College Extension Service, has made plans for year-long observance of the first farm demonstration conducted by a USDA employee.

"We are stressing this year," he said, "an increased number of farm and home demonstrations, increased 4-H Club enrollment together with higher project completion, and adequate celebration and recognition of the demonstration method of teaching in each Kansas county."

Follow Grass Farming

Following a successful grassland program means more profits for you, better farming and animals, too. For tips on preparing better grass silage, write us for "Streamlined Methods of Harvesting Hay and Making Grass Silage." It's published by Gehl Brothers Manufacturing Co., West Bend, Wis. Write Farm Service Editor, Kansas Farmer, Topeka, Kan. No charge.

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ARROWHEAD CLEATS... bite better—don't roll back	YES	NO	NO	NO
EXTRA RUBBER IN CENTER... for longer life	YES	NO	YES	NO
CURVED CLEATS... prevent bending	YES	NO	YES	YES

Here's why B. F. Goodrich tires save you time in the field



YOU CAN SAVE hour after hour of working time when your tractor rolls on powerful B. F. Goodrich tires. Just as a round-pointed shovel (left top) bites into the soil easily, so rounded-profile Power-Curve tires penetrate better, give you full shoulder-to-shoulder traction in reverse or forward.



Tires with a flat profile, like the square-pointed shovel, require greater pressure to dig into the soil, actually push dirt ahead.

Arrowhead Power-Curve cleats take a sharp, deep bite into the soil. Result: greater drawbar-pull. And because the cleats are evenly spaced from center to shoulder, dirt falls from the open channels. No dirt-clogged, spinning wheels to waste time, burn up fuel. Every turn of a Power-Curve tire counts for maximum traction and pull.

Compare the leading tires. On every count you'll be hours and dollars ahead with power-packed Power-Curve tires. See them at your B. F. Goodrich retailer's store. His address is listed under Tires in the Yellow Pages of your telephone book. *The B. F. Goodrich Company, Akron, Ohio.*

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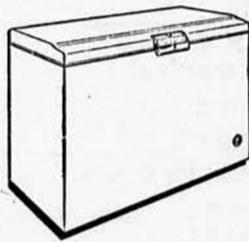
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| DIGHTON
Mull Electric Service | | PEABODY
Baker Furn. Store | |
| DODGE CITY
Newkirk's | | | |
| EL DORADO
Home Appliances, Inc. | | | |



SPRING MONTHS always pose problems by blowing hot and cold without any apparent schedule. It is inefficient to make expensive installations for heat needed only spasmodically. Brooders, hotbeds, workbenches, shops, laundries are sometimes heating problems in certain situations.

Take for instance the need for heat while working on machinery. How well you know the desirability of warming metal that has been standing in below-freezing temperatures. An electric heat lamp or two, mounted so as to direct rays on the desired part, will ease a lot of discomfort and awkwardness of working with gloves.

Take the workbench. Heat lamps suspended over the working surface provide heat so your hands are relaxed, not stiff with cold. If you use the white type of heat bulb, it also will provide light.

An electric heating cable in a hotbed is a means of thwarting effects of a sudden freeze. Outside water systems can be turned on earlier and protected by such a cable. A thermostat control maintains an even temperature wherever you want it.

Ever think that good ventilation in calf pens will be a big health factor. A standard kitchen fan installed to supply fresh air can keep calf quarters from being damp and overheated.

Not to ignore humans, we can look at sleeping comfort and suggest an electric bed warmer, an electric mattress pad, or an electric blanket will be useful thru the spring. All of these create sleeping warmth while requiring less cover weight.

Still on the subject of heating, we read recently of a farmer who is heating his milkhouse with electric ceiling panels. The new radiant panels now on the market can keep temperatures at workable level for very little power cost.

Or to keep feet warm, an ingenious person has devised a means of using heating cable woven in a floor mat, something on which to stand while at a workbench or washrack.

Another use of heating cable is maintaining poultry water above freezing temperatures. By setting the thermostat at 35 degrees above zero and varying the distance between spirals when wrapping the cable around the pipe, the problem can be handled adequately. According to one man's experience, when the cable is run straight along the pipe it will control in temperatures down to 10 degrees above zero. For colder temperatures the cable can be wrapped around the pipe, loops being as close together as one inch if temperature is to reach 20 below zero.

An immersion water heater that can be plugged into any electric outlet might be a valuable item during these months. A bucket of hot water thus may be obtained even some distance from a hot-water system.

Dipping into the bag of electrical gadgets: One little-known use of X-ray is to examine and help treat various ailments of horses. A story is told of a race horse that had shown much promise and represented a large investment, only to go lame near its peak. An X-ray unit was used on the animal with the result it won some \$65,000 for its owner in the next 2 years. A prominent veterinarian has since testified that X-ray provides almost immediate relief from pain and prompt reduction of swelling.

Do you awaken during the night and want to know the time? A New York firm has developed a projector that sits on your bedside table. Upon retiring, your watch may be placed in the projector. Then, upon awakening, simply press a button and the image of the watch is projected onto the ceiling.

A light that fits your head like a hat and throws a beam in front of your eyes is available. It's a good auto trouble light, can fit your tool kit and will act handily whenever both hands are needed.

Don't forget, there are attachments for your electric mixer that will peel potatoes, onions and other vegetables. Action is automatic and it is said to remove only a very thin peeling, thus saving the highly nutritive parts.

An electrical tester that will enable you to test extension cords, iron cords, fuses, switches, sockets and car circuits with the power OFF is being marketed by a Massachusetts concern.

Use of heat lamps in pig or chick brooders is an old story and very familiar. Nevertheless, all serve to illustrate how heat can be pinpointed where and when you want it during the period of uncertain temperatures.

For the home, let us remind you of some useful electric gadgets that will help with food preparation. There's an electric broiler-grill that will turn out a meal anywhere in the home. Or consider one of these waffle irons that has a set of grids to make sandwiches with the filling sealed inside. Or you may like to barbecue so there is a broiler with a motor that turns a spit.

Be Prepared

For on-the-spot repairs when fishing, I carry a bicycle-tube patching kit in the tackle box. This can be used to mend leaks or snags in hip boots, waders or other rubber footwear.

I WONDER HOW THAT STARTED . . .

"A bossy cow"

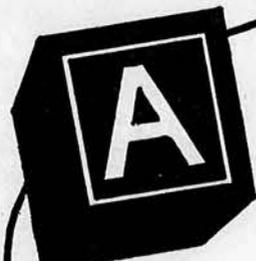
The Latin word for cow is bos and it's believed first person to say "Bossy cow" thought up "Bossy" from bos. Some believe the term relates to the dialectic English word, boss calf, a young calf. In pre-Civil War days a buffalo calf was called a bossy. Ancient Teutons had a word, bos, which meant barn, and a boss calf was a calf kept in a barn.



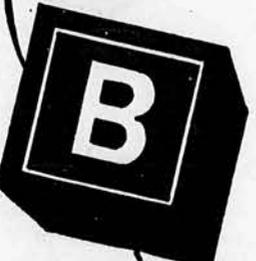
FARM PROFITS **GROW**

WHERE ADEQUATE WIRING GOES!

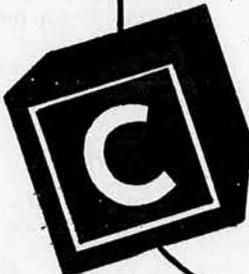
What is Adequate Wiring? You will find the answer in the simple ABC's of wiring below. Read them. They will guide you in planning or installing SAFE, DEPENDABLE WIRING in your home and farm buildings. They will also show you why Adequate Wiring enables Reddy Kilowatt, your Electric Servant, to serve you BETTER and CHEAPER.



ADEQUATE ELECTRIC SERVICE ENTRANCES provide three wires of large enough size to bring as much electricity into your home, farm or work shop as you may need for the present or in the future.



BRANCH CIRCUITS are the wires within the walls of these buildings. These wires should be sufficient in number and of large enough size to carry electricity at full power from the service entrance to all your electrical equipment, lights and appliances. There should also be spare circuits which make the installation of future equipment simple and inexpensive.



CONVENIENT OUTLETS are just what the name implies. There should be enough of them in the proper locations so that you can use any lamp, radio or other appliance exactly where you want to use it.

SAFE, DEPENDABLE,

Adequate Wiring

HELPS PREVENT FIRES, TOO!



ELECTRIC SERVICE IS STILL THE LOWEST ITEM IN YOUR FAMILY BUDGET

Yes, Electricity is cheap in Kansas despite the fact that the materials, manpower and equipment that go into making good electric service have skyrocketed along with the cost of living.



ELECTRIC LIGHT AND POWER COMPANIES IN KANSAS

Central Kansas Power Company
Western Light & Telephone Company
The Kansas Power and Light Company

Kansas Gas and Electric Company
Kansas City Power & Light Company

KANSAS STATE UNIVERSITY LIBRARY



1953 Chevrolet Advance-Design Trucks deliver more value!

4 powerful reasons
why you get more of
what you
want...

Now — even more for your money with Chevrolet!

Advance-Design Chevrolet trucks for 1953 bring you new stamina and new safety with heavier, more rigid and durable construction. Heavy-duty models provide increased horsepower and higher compression ratio in an advanced and greatly improved Loadmaster engine. The new high compression power of this great valve-in-head engine gives you faster acceleration,

greater hill-climbing ability — and even greater economy than previous Chevrolet trucks world-famous for their thrifty ways.

These are the greatest Chevrolet trucks ever built. And with all their solid superiority, they list for less than any other trucks of comparable specifications.

Let your Chevrolet dealer show you how Chevrolet trucks give you more of what you want in 1953. Chevrolet Division of General Motors, Detroit 2, Michigan.

more engine power!

The Loadmaster engine delivers 108 h.p. with a new high-compression ratio of 7.1 to 1. This greatly improved engine is standard on 5000, 6000 Series heavy-duty and forward-control models, optional on 4000 Series heavy-duty trucks.

more staying power!

Heavier, stronger, more durable frames increase rigidity, add to ruggedness and stamina of all 1953 Chevrolet trucks. Long famous for their ability to take the roughest jobs day after day, Chevrolet trucks are now sturdier than ever.

more braking power!

All 1953 Chevrolet trucks up to 4000 Series heavy-duty models are equipped both front and rear with big, powerful "Torque-Action" brakes. Series 4000, 5000 and 6000 heavy-duty trucks use extra-large "Torque-Action" brakes in front, "Twin-Action" type in rear. Both assure quick, smooth, safer stops.

more economy!

The new and greater stamina of 1953 Chevrolet trucks, plus extra gasoline economy in heavy-duty models with improved Loadmaster engine, reduces hauling costs per ton-mile, brings you greater over-all economy throughout the long life of your trucks.



**MORE CHEVROLET TRUCKS IN USE
THAN ANY OTHER MAKE!**

Do You Believe an Apple a Day Will Keep the Doctor Away?

By JAMES F. BRAZELTON, Troy

COMMERCIAL APPLE growers in every part of the country are awaiting with keen interest results of a comprehensive experiment at Rutgers University, in New Jersey. They are trying to find whether there is any basis in fact for the familiar saying, "An apple a day keeps the doctor away."

Old apple legends of many lands associate apples with cures and health. This famous old Devonshire rhyme implies health benefits:



J. S. Brazelton

*Ate an apful avore gwain to bed
Makes the doctor beg his bread.*

According to folklore of certain old-world countries, one scraped an apple from top down to cure one illness, from the bottom up to cure another. The Turks believed apples had power of restoring youth. In Pomerania, province of Prussia, an apple eaten on Easter morning was said to insure against fever. Peasants of Westphalia used apples mixed with saffron as a cure for jaundice.

Salute Apple Trees

The wonderful power of the apple in aiding health in man was recognized in the ancient Saxon coronation benediction, which is much too long to give here. In some sections of England there is an ancient custom still performed, of saluting apple trees on Christmas Eve. Processions visit principal orchards of a parish, select one tree in each orchard, salute it and sprinkle it with cider to insure a plentiful crop. Another good one comes from Devonshire, England. The natives cut an apple in two and rub it on warts to cure them.

It already has been pretty well established that many old tales about apples are founded on fact. Scientific research has revealed apples do have a healthful value as well as a nutritional one. Someone has said, "If apples were judged by their health values they'd be cheap at a dollar apiece." Scientists at Rutgers are making a study of what happens when the apple enters the human system to produce favorable results food technicians have long recognized.

Laboratory work with apples reveals they are rich in uronic acids, lacking

in many diets. These acids counteract toxic poisons that occur in certain food-stuffs in minute quantities, and are inhaled in bad atmosphere of industrial cities. Chemical analysis shows apples rich in phosphorus and calcium, elements the body needs.

The apple is plentifully supplied with vitamin-A, enemy of colds. Vitamin-B, good for the nerves, also is found in apples in worth-while quantities. Vitamin-C is there, too. This vitamin keeps bones and teeth sound. Apples also contain vitamin-G, essential for digestion and growth.

A great deal of pectin is found in apples. Every housewife who has tried to make jelly knows pectin makes fruit juice jell. Not so well known is the importance of pectin in stimulating activity in the intestinal tract. This it does without harmful effect on the mucous membrane lining.

Fruit And Meat Go Together

As far back as the days of Caesar it was the custom, at their lavish banquets, to serve fruit and meat together. Even our grandmothers knew roast pork and applesauce made a good combination. We think of Thanksgiving turkey with cranberries. A good cook provides tomato sauce with salmon loaf or salmon croquettes.

When apples or other fruits are eaten along with meat or fish or fowl the stomach is called upon to supply less hydrochloric acid. Result, the digestive process is not only easier but quicker. Stomachs of children do not secrete as much hydrochloric acid as stomachs of adults. That is why children need more acid-containing foods such as apples. An acid reaction in the stomach does 2 important things. It promotes digestion of protein and makes conditions favorable for absorption of iron and calcium; iron to make blood, calcium to make bone.

Vital statistics from Washington state, where they harvest 30 million bushels of apples a year, show the average boy in that state who grows up eating apples has a life expectancy 2 years longer than the average American boy. It is a 4-year advantage in favor of Washington girls.

We do not have to await results of the Rutgers experiment to know an apple in our daily diet promotes good digestion, fights toxic conditions, helps regulate the intestines and releases vitamins and minerals so the body can use them.

No. 7 in series of farm biographies of agricultural "greats" . . .

JOHN SKINNER

John Skinner, father of the American agricultural press, was born February 22, 1788, in Maryland, and died March 21, 1851.

Until early manhood, he lived on a farm in Maryland. In 1809 or 1810 he began law practice but abandoned it to accept an appointment under President Madison. In 1812 he became postmaster of Baltimore, Md. Later he was assistant postmaster general of U. S.

On April 2, 1819, he founded The American Farmer at Baltimore. It was the first farm paper in the U. S.—a weekly of 8 pages. Its aim was to give agricultural information from every source, to improve business and living. In 1845 the paper became a 32-page monthly. John Skinner also was editor of the Journal of the American Silk Society, Rural Economist and American Turf Register and Sporting magazine. He wrote many articles on agriculture for publication. In 1845 he became associated with Horace Greeley and a Mr. McElrath, of The New York Tribune, as editor of the Farmer's Library and Monthly Journal of American Agriculture.

In 1848 John Skinner moved to Philadelphia to publish The Plough, the Loom and the Anvil for the state Society of Agriculture. He presented the public the best articles then written on the economics of agriculture and allied industries. He owned a farm 4 miles from Baltimore, took great interest in its animals and activities.

American agricultural journalism usually dates from April 2, 1818, with The American Farmer. It continued until about 1862. A leading article in the first issue was on advantages of "Ruta Baga, or Swedish Turnip," as a live-stock feed!

Advance Order Plan Saves You Money!

Phillips 66 Offers Discounts on Oils and Greases



HERE'S HOW THE PLAN WORKS: Order your Phillips 66 Motor Oils, Gear Oils, and Greases now. Set a delivery date before May 31, 1953.

The single delivery saves us time, trouble and handling expense. So we can offer you these special benefits:

- Money-Saving Discounts
- Discounts on Orders as Small as 15 Gallons
- Protection against Price Increases
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- The Products You Need When You Need Them

And most important, you get famous Phillips 66 Products . . . products you can depend on. You get Phillips 66 Heavy Duty Premium Motor Oil . . . the oil that's so good it actually surpasses manufacturers' recommendations for all makes of cars . . . an oil that's truly heavy duty so it will protect your truck and tractor, too.

See your Phillips 66 Tank Truck Driver. Get your order in and save on Phillips 66 Motor Oils, Gear Oils and Greases.



Spring-tooth models for Allis-Chalmers CA (shown) G, B, C and WD Tractors. 4, 6, 7 and 8-foot widths. Depth gauge wheels available.

Mounted A-C Field Cultivators

UNLOCK SOIL PROFITS

Is your soil packed . . . crusted . . . slow to dry?

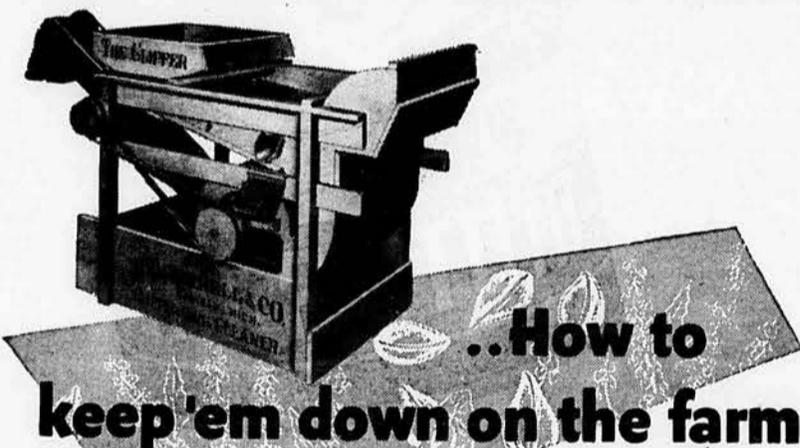
Wake up your fields. Open up your soil in a hurry. Start it breathing and living. An Allis-Chalmers live tooth cultivator with its vigorous, pulsating action will do the trick.

Spring-action teeth kick out weeds; break up clods; rejuvenate pastures. Seedbeds are loosened and mulched; roots have more room to grow. Vigorous crop growth and more profits are the results.

Ask your Allis-Chalmers dealer to show you the quick-mounted, hydraulically controlled field cultivator of your choice. The price is reasonable. Every farmer should own one.

ALLIS-CHALMERS
TRACTOR DIVISION • MILWAUKEE 1, U. S. A.

Rugged coil-shank models are available for CA and WD tractors. Choice of duck-foot sweeps or double-pointed cultivator teeth.



The elimination of noxious weed seeds . . . common weed seeds . . . small, broken and shriveled crop seeds and the separation of other crop seeds, from the seed you sow, means higher crop yields and greater profits to you.

For over 80 years Ferrell Clipper Cleaners have been used by thousands of farmers to do this job . . . They have learned that Clipper Cleaners clean small grain and grass seeds quickly, thoroughly, at low cost and at their convenience.

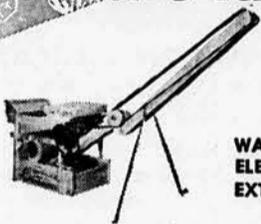
Specifically, the 2B Special Clipper Cleaner, the farmer's favorite, is the model for you. It comes equipped with vertical air blast, 3-speed fan control, labor-saving bagging elevator and 12 interchangeable screens . . . an electric motor is optional.

Ask your local dealer to show you how the 2B Special will help you keep the weeds down on your farm and increase your profits by sowing clean seed.

If you require a model larger than the farm size cleaner, write direct for catalogue.

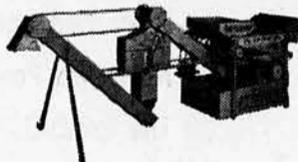
A. T. FERRELL & COMPANY
Dept. K2, Saginaw, Michigan

CLIPPER
GRAIN • SEED
AND BEAN CLEANERS



WAGON BOX ELEVATOR EXTENSION

By adding the elevator extension as shown your clean seed can be elevated directly into your wagon box or over-head bin . . . The elevator extension is available as extra equipment.



CLEAN AND TREAT IN ONE OPERATION

The popular dust type, Rocker Seed Treater, when used as shown with the 2B Special Clipper Cleaner makes possible the cleaning and treating of your seed in one operation . . . Note the two way labor saving bagging feature . . . the treater is also available as a separate unit.

Thoughts TO LIVE BY

"Now I Lay Me Down"

IT WAS THE GREAT crisis of his life. Forces beyond his control drove him to his knees. There amid the broken pieces of his life, he anxiously prayed:

"Now I lay me down to sleep,
I pray the Lord my soul to keep.
If I should die before I wake,
I pray the Lord my soul to take."

Of course, it wasn't appropriate, but it was the only prayer he knew. When he was a child, his mother taught it to him as he prepared for bed. This prayer has been the religious starting point for many people. In recent days, it has fallen into disfavor because thoughts of death, a reality beyond the experience of children, fills their minds with morbid fears, so a prayer such as this is frequently substituted:

"So many things have gone to rest,
The world seems sleepy, too.
And now, O God, I'm going to sleep,
Keep me the whole night through."

Granted the second prayer is superior to the first, there are still occasions when the older prayer is very appropriate. I thought about it a month ago when a minister partially quoted the Twenty-third Psalm: "The Lord is my shepherd, I shall not want. He maketh me to lie down." Retiring to one person may be a welcome rest, while to another it may be a fearful experience.

Sooner or later, nearly everyone has some physical experience which drives him to his bed. As he lies there, the world looks different from what it did before. There is a great difference between the horizontal and vertical points of view. As long as a man is on his feet, he has a chance to fight against opposing forces. He is courageous and independent. But when illness comes, he lacks the strength to struggle, and he finds himself dependent upon the mercies and services of others. When an active man, for instance, becomes a paralytic, he must make a great adjustment. No one knows how long he will be down. Fears assail him as he loses his liberty of

movement. He needs a lot of understanding care.

Sometimes such sufferers reproach themselves looking upon their confinement as a punishment. They need to be reminded that whereas sin always causes suffering, not all suffering is caused by sin. There are accidents resulting from natural causes which happen to the just as well as the unjust. A courageous and admirable physician may be stricken by the epidemic he is striving to stop.

Altho one need not condemn himself because of his affliction, he can use his period of inactivity to re-study his scale of values. Being a patient in a hospital has given some people a golden opportunity to learn how to cope with the little things that cause so much tension. A man can be richer for his "unfortunate" experience. Several eminent men have told me they made their vocational choice while bedfast. What appeared to be a dark valley became for them a blessed glen.

Jean Baptiste Lamarck came from a family established in the traditional military life of France. He joined the army at seventeen, but at twenty-one, illness forced him to separate himself from it. He was in Paris, poverty-stricken and alone for nearly a year receiving treatment. A skylight was the only window in his attic room. From his bed, he saw the clouds passing endlessly overhead. Lying there, he discovered there were different kinds of clouds and they were followed by certain kinds of weather. The black nimbus brought snow, the feathery cirrus promised fair weather, and the galeon cumuli appeared near the end of a long summer day. When he regained his health, he could have returned to the army, but in his affliction he found a new career, that of a naturalist.

When God makes us lie down, we ought to look about. We are in green pastures. Putting oneself into the hands of God as the old, children's prayer suggests is a wonderful experience. —Larry Schwarz.

WATCH SAFETY OF WATER



OTTAWA COUNTY 4-H'ers are serious about this business of safety in rural areas. Delphos Club members have made several tours of their neighborhood, checking safety of drinking water on farms and looking for hazards that needed correcting. Samples of drinking water from each farm visited were sent to the state testing laboratory at Lawrence. Hence Mrs. James Bremerman and daughter Bernice discuss laboratory report of the condition of their water supply with County Agent Louis Cooper, left.



IT'S CHICK SEASON Again

HINTS ON GETTING YOUR CHICKS OFF TO A GOOD START

EARLY EGGS BRING BEST PRICES. Poultry specialists at the Illinois College of Agriculture point out that fall eggs sell for 35% to 50% more than spring eggs. There's no question about it—the early layers pay best. Actual records show that pullets which start laying early can yield 2 TIMES the egg money of later or slower growing birds that do not get into full production until late winter. For a chance at the best egg profits, start your chicks as early as you can—then, keep them growing and doing their best every day straight through to the laying house.

GIVE THEM PLENTY OF BROODING SPACE. One of the most common mistakes of poultry raisers is overcrowding the baby chicks. Overcrowding increases death rate, slows growth, decreases feed efficiency and results in uneven growth. Each chick should be allowed a minimum of 7 sq. inches of brooder under the hover. For electric brooders, up to 10 sq. inches may be needed. For chicks reared in confinement, allow a minimum of 1/2 sq. ft. of brooder room floor space per bird through six weeks—and 3/4 to 1 sq. ft. per bird from 7 weeks through 12 weeks.

AN EFFECTIVE CONTROL for both cecal and intestinal Coccidiosis is the continuous feeding of the proper level of Megasul. This thoroughly proved product of the famed Lederle Research Laboratories is used in Gooch's Best Chick Starter at a level to protect the birds and also to help build immunity.

GOOD LITTER IS IMPORTANT. Be sure that it will keep the floor clean, warm and dry, and further, that it is absorbent yet not dusty or chaffy. Here are some of the materials that meet these requirements: Peat moss, wood shavings, fine-cut straw, oat hulls, crushed corn cobs, ground sugar cane and sand. Generally speaking, three inches is about the proper depth, although this may vary depending on the material used. Turn litter frequently to keep it dry, and replace with clean fresh litter when it becomes too wet or when filth accumulates.

"FAST GROWTH AND LIVABILITY," reported by a Nebraska feeder who Gooches her chicks on Gooch's Best Chick Starter. "I have used Gooch's Chick Starter for the last 2 years," wrote Mrs. Arnold Nowak, St. Paul, Nebraska. "Gooch's Best has been very satisfactory as we have always had good fast growth and livability. My layers are now producing 80% on Gooch's 26% Laying Supplement and farm grains."

WHEN AND HOW TO INSTALL ROOSTS. If roosts are to be used later for hens, provide them for the replacement chicks at 4 weeks of age. Allow 4 inches roosting space per chick. If roosts are not to be used for hens, do not use them for replacement

chicks. Do not use roosts for broilers. The frame of roost should be hinged to the north wall with the front end resting on the floor. Cover frame with inch-mesh poultry netting. As chicks grow older, raise the front end of the frame until at the age of about eight weeks, it is eight inches from the floor. A solid board should be kept in front to keep chicks away from the droppings.

DURING RECENT MONTHS, thousands of feeders have been collecting Gooch "Pound Notes" which were packed in each bag of Gooch Laying and Hog Feeds. Now, these Pound Notes are being redeemed at local Gooch dealers who are giving one full pound of Gooch's Best Chick Starter Feed for each Pound Note redeemed. Many farm poultry raisers are finding that they can collect enough free feed to carry their chicks through the first 3 to 4 weeks.

AN AMAZING RECORD OF "FIRSTS" has been accumulated by Gooch Feed Mill Co., makers of Gooch's Best Chick Starter. As a result of constant research and testing under actual farm conditions, Gooch was first to bring the benefits of Aureomycin APF to poultry raisers. Later Megasul, the approved control for Coccidiosis, was made a part of Gooch Chick Starter. Two years ago, Aureomycin and Terramycin were added. Now, with the addition of a new improved Penicillin, the antibiotic of choice, it's no wonder that so many thousands of poultry raisers are switching each year to Gooch's Best Chick Starter for greater livability, faster growth and greater feed economy.

HOW MUCH EATING AND DRINKING SPACE? Plan on giving your chicks enough space so that they can all eat and drink at the same time. Here are accepted feeder-space requirements. First 2 weeks—1" per chick; 3 to 6 weeks—1 3/4" per chick; after 6 weeks—3" per chick. Water fountain requirements are: First 3 weeks—20 linear inches or two 1-gal. fountains per 100 chicks; after 3 weeks—40 linear inches or two 3-gal. fountains per 100 chicks. Keep clean fresh water before chicks at all times.

FEED ECONOMY. Since profitable chick raising is so dependent on the feed you use, be sure you get the feed that's proved best for your poultry. Gooch's Best Chick Starter is tested and proved under actual farm conditions—at Gooch's Experimental Poultry Farm near Lincoln, Nebraska. Here, a complete poultry program covers feed testing, trials on different feed forms, feeding methods and general poultry management. Accurate records are kept on the raising of thousands of birds each year, and these records are then used by Gooch Nutritionists in making further improvements in Gooch's Best Feeds.



Now You Can "WATCH 'EM GROW" on GOOCH'S BEST Chick Starter

Within the next few weeks, many GOOCH dealers will be demonstrating how baby chicks thrive on GOOCH'S BEST Chick Starter. You can actually watch 'em grow in his window—see how this feeder-proved feed promotes high liv-

ability, fast growth and profitable weight gains per pound of feed.

Can you guess how fast chicks grow on GOOCH'S BEST? Ask your dealer about his chick growing demonstration.

You'll See Why...

MORE THAN 23,000 FLOCK OWNERS

HAVE SWITCHED TO GOOCH'S BEST Chick Starter

This year, thousands more poultry raisers will GOOCH their chicks for the first time—and join the ever-increasing numbers of regular GOOCH users who have discovered that GOOCH'S BEST is the best! Here's why:

(1) HIGH LIVABILITY . . . With the addition of the newest, most effective antibiotics (including Penicillin) and Megasul (proved control for Coccidiosis) GOOCH records show up to 99% livability.

(3) FEED ECONOMY . . . Recent tests show that 1953 GOOCH'S BEST Chick Starter can produce a pound of gain for as little as 2.8 lbs. of feed! Results on some show even higher efficiency.

(2) FAST EARLY GROWTH . . . Thanks to important nutritional advancements tested and proved in GOOCH laboratories, today's records show averages of 2 1/2 lbs. and over at 8 weeks.

Ask your GOOCH Dealer for GOOCH'S BEST Chick Starter. See for yourself why so many experienced poultry raisers—yes, and hatchery operators too—say:

"GOOCH Your Chicks on GOOCH'S BEST"

Cash in Your GOOCH "POUND NOTES" NOW!

Each GOOCH "Pound Note" you've collected is now worth a full pound of GOOCH'S BEST Feeder-Proved Chick Starter. Turn your Pound Notes in now to your local GOOCH Dealer and collect this money-saving bonus!

Collect These Valuable GOOCH RED CIRCLES

Trade them for valuable merchandise! Ask your GOOCH Dealer for the new free catalog that shows all the GOOCH Red Circle items . . . tells you how to get them!

This Year, Join the Thousands Who Are Switching to

GOOCH'S BEST Feeder-Proved CHICK STARTER

GOOCH FEED MILL CO.

Lincoln, Nebraska Council Bluffs, Iowa Topeka, Kansas Dalhart, Texas



THE WINNER: Keith Foley holds up the arm of his son who grew 60 bushels of wheat. Average yield for the area was 25 bushels. Foley grew 40 bushels.

Son Shows Dad How to Grow 60-BUSHEL WHEAT

Spring tonic of "Mr. N" ammonium nitrate brings consistent high yields to Foleys

IT was early in 1949 when Keith Foley first heard about the recommendation of Kansas State College that 100 pounds of ammonium nitrate fertilizer applied in the spring could boost wheat yields substantially. "Sounds good to me," he thought, "I'll try it."

That spring he applied 100 pounds of Spencer "Mr. N" Ammonium Nitrate on 30 acres of his Western Kansas farm. But he ran short before finishing. Result: the unfertilized portion made only 9½ bushels; the fertilized portion 20 bushels!

Since 1950 Mr. Foley has used balanced fertilizer each fall and 100 pounds of ammonium nitrate in the spring. His average yield last year was 40 bushels, while neighbors all around who used no fertilizer felt lucky to get 25.

Biggest surprise, however, came when his 10-year old son, Kenneth, grew 60 bushels an acre on six acres in a 4-H project. He used the same fertilizer treatment as his dad, but his plot was in its first year out of sweet clover.

Here's how nitrogen pays off on your corn:

40 bu. to break even	10-bu. profit
No fertilizer = 50 bu. yield	
48 bu. to break even	32-bu. profit
\$10 for Nitrogen = 80 bu. yield	

THIS CHART SHOWS WHY you should use more rather than less fertilizer when prices are inching downward. \$10 worth of nitrogen can boost a 50 bushel yield of corn to 80 bushels — give you an extra \$40 worth of corn.

NOTE: Current demand for Spencer Ammonium Nitrate Fertilizer exceeds supply. Your dealer may not be able to fill your order. We are operating our plants 7 days a week, 24 hours a day, and are doing our best to increase output.



BE SURE TO LOOK for this bag whenever you buy ammonium nitrate fertilizer.

Gardens Sprouting First on Paper Offer Most Chance for Success

By WILLIAM G. AMSTEIN, Kansas State College

THIS IS TIME of year when gardens start to sprout on paper in planting plans. Too few of us spend enough time on this important planning phase of growing vegetables. We should decide upon crops, varieties and amounts of each crop we will include as we plant the garden.

Not all of us can expect to spend the time on garden planning used by market gardeners. Yet most of us would find a little more time spent in planning worth while.

One of first items deserving greater attention is garden location. Some may say it is a little late to do very much about it. Especially changing location if it has been plowed. Many gardens are located by the method of leaving them alone where they are. This continuous garden site does not account for all of our garden problems, but it certainly accounts for too many of them.

Here's the Trouble

Some of the more common hazards of continuous gardening in the same location may include nematodes, tomato wilt, cabbage yellows, shade tree competition, poor soil, need for a way to irrigate or a lack of windbreak protection. It is true we can correct some of these hazards, but not all of them in continuing in the same location. Certainly if some of these items are problems we can handle them before we start our 1953 garden.

After deciding on the garden site we next need to determine the crops and varieties we intend to include. A little more attention given to both of these items should pay good returns. We also need to figure how much space is needed for each crop and variety.

Quality of garden seed, including its percentage of germination, disease resistance and variety adaptation, are items to consider. As we look over the seed display racks in our stores or turn the pages in our catalogs the pictures look pretty much alike. It is true the descriptions may vary some. But these same varieties will be included in both sources of supply and from coast to coast.

Use of the best adapted varieties of the more important crops is important. A list of adapted, recommended varieties such as was included in your January 17, 1953, issue of *Kansas Farmer* should help answer many of your common questions. It is our experience varieties adapted to this section of the

country deserve greater attention. In a few crops this is not important. But in many crops it is of first importance especially those that you depend on to fill your jars and lockers.

With tomatoes, beans, peas, Irish potatoes, sweet potatoes, sweet corn and other crops of this type, adapted varieties are of first importance. In a catalog or display rack all varieties may seem well-adapted to our area. English peas or garden peas are a crop that many are interested in planting and most years with disappointing results. Experience has shown that a short-vined, early-maturing variety is necessary if peas prove a success. Little Marvel or its equivalent in other varieties, for example, is a good answer. Yet many people plant a variety that makes 3 or 4 feet of vine and takes a month longer to mature. By then hot weather, lice, mildew or other hazards usually keep these late-maturing varieties of peas from proving a success.

Requires Early Crop Maturity

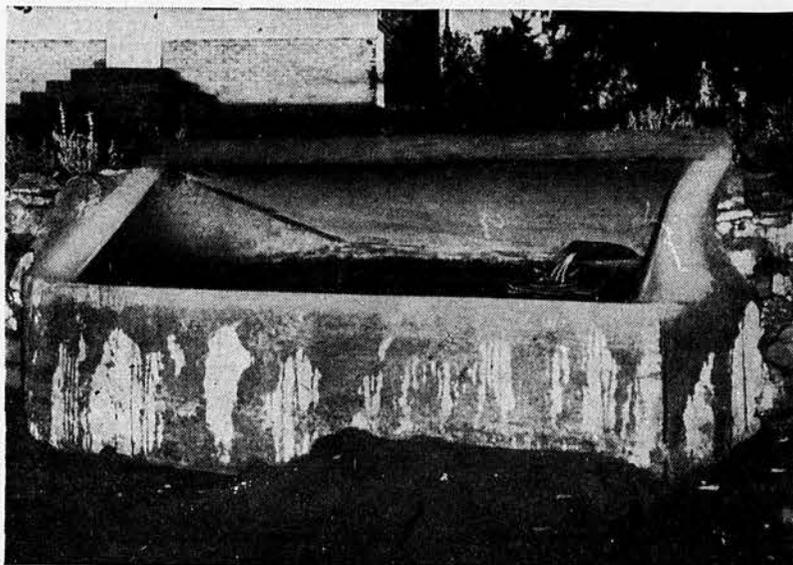
In addition to adapted vegetable varieties, disease-resistant strains as well as certified seed should be used when they can be found. Gardening in Kansas often requires early crop maturity. Also a degree of cold and heat resistance not possessed by too many varieties.

Still another item in our planning includes planting at the best season for success. While we do not want to risk unnecessary losses from freezing, the risk from too much heat is at times as much or more of a hazard.

So as you plan your garden crops include planting dates as well as varieties of crops to include. Locate the crops on paper in the garden, not only in regard to time of planting but look across the calendar to the season of maturity. A little more attention to this detail would give us better grouping of crops at harvest time. This might be as important as planting every row as you start across the garden. A row now and then that is in the way as you try to clean up after early crops for later season plantings could be avoided by more pre-season planning.

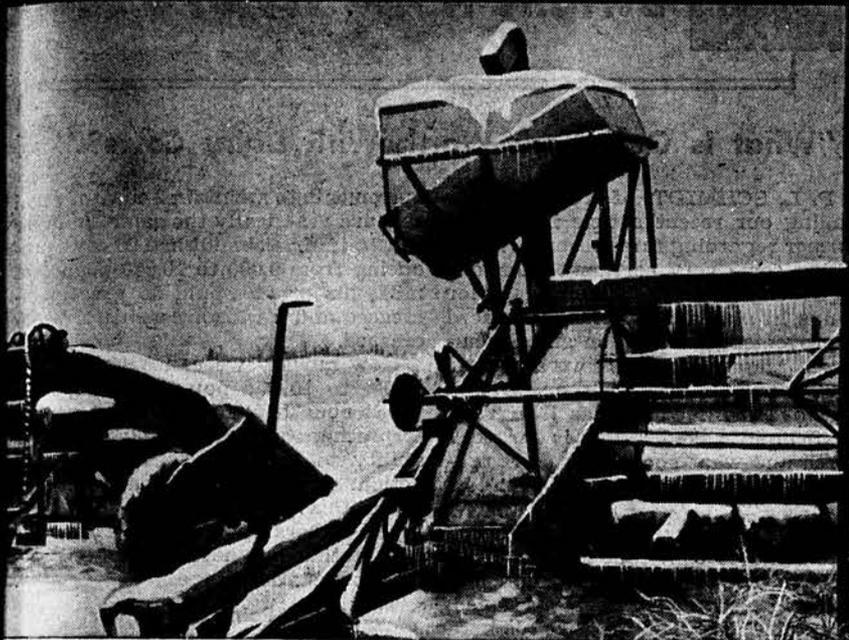
The vegetable garden, in addition to being productive, can offer all members of the family a common experience in food production. The young and the old all can take part. It is a worth-while program that should pay extra good returns for the time devoted to it.

STURDY WATER TANK

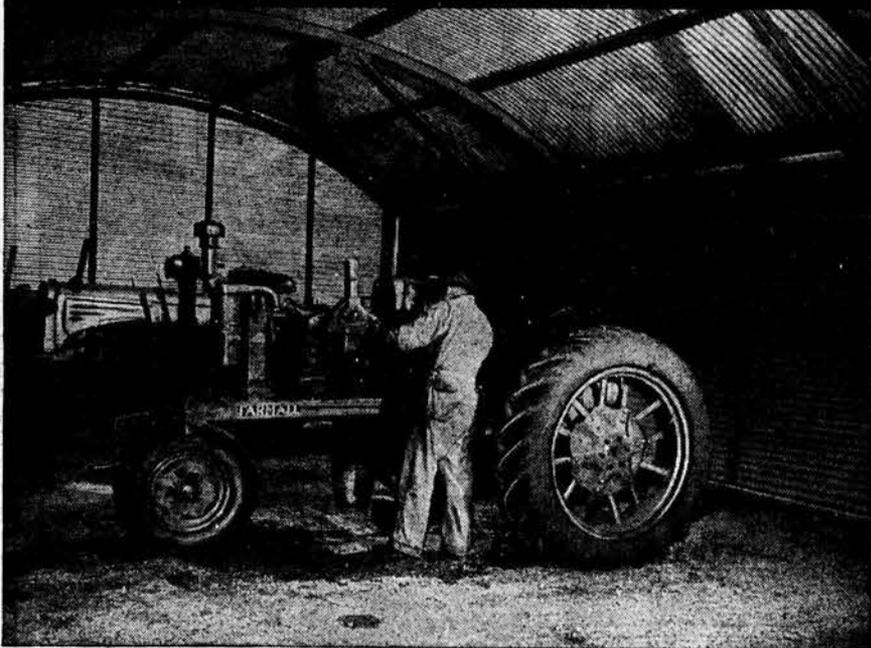


CATTLE FOUGHT around a round metal watering tank on the W. C. Feldcamp farm, near Vesper, and water often froze in winter. So Mr. Feldcamp rigged this waterer in 1933, built into the side of a hill along edge of lot. It has never leaked and hardly ever frozen up. Altho he didn't use a fire for 2 or 3 years, he says he could use a 50-gallon drum with a fire built inside when weather is very cold. He also says a double door to close part of the front might help when temperatures are extra low.

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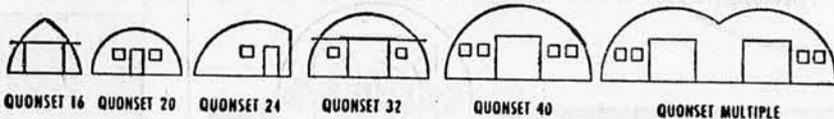
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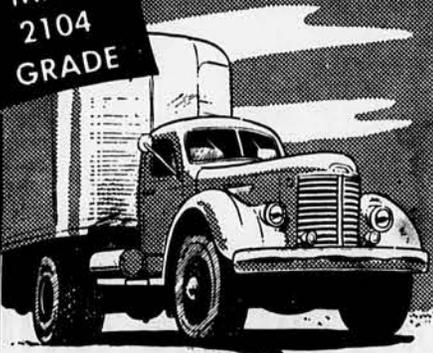
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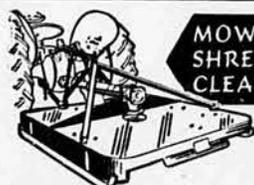
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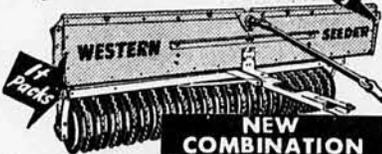
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Dwight Hull SAYS . . .

"What Is Our Work Worth With Dairy Cows?"

P. L. SCHMIDT, of Newton, after reading our recent article in *Kansas Farmer* regarding farm records, wrote asking some very pertinent questions regarding dairying. Among other things, he stated they belong to a Herd Improvement Association and the supervisor figured their 40 cows averaged 6,500 pounds of milk for the year, and the November feed bill was \$900. Then Mr. Schmidt asked, "What is our work worth and what should our cows produce; what does the average DHIA cow produce?"

Trying to answer Mr. Schmidt, I would like to compliment him. First, for belonging to a DHIA association, and because he is studying figures obtained, with a desire to help improve his herd and the profit he should get. It seems to me a completely kept DHIA book is the most important tool we have in developing a profitable herd of dairy cattle. Naturally, this tool is not much value unless one honestly and completely studies the figures obtained. Figures, of course, are not a true picture, unless the owner and the supervisor co-operate in making an honest effort to have accurate figures.

Good Herd Takes Time

A 6,500-pound herd average is not high enough to be too profitable, but Mr. Schmidt, in my estimation, is several years ahead of the man who does not know his herd average. A satisfactory herd average cannot be obtained in 1 or even 2 years. It is a comparatively slow process of culling, feeding and breeding. The dairy business is strewn with failures by persons who have tried to buy a herd of high-producing cows. It just doesn't work.

Therefore, the man who would succeed in dairy business must take the slower but surer method of building his herd thru better management. Herd improvement can only start after one has progressed to the point where he has some known facts to start with. Mr. Schmidt has arrived at this point. By using records kept on individual cows he will discover the high cow in his herd, which probably has produced between 9,000 and 10,000 pounds of milk, has cost very little more to feed than his low-producing cow. Feed re-

quirements to maintain 2 cows of equal size are practically the same. In other words, if Mr. Schmidt had 20 cows producing from 9,000 to 10,000 pounds of milk, his profit would be greatly increased and his labor considerably decreased.

How quickly we can arrive at the 9,000- to 10,000-pound average depends upon how successful we are in interpreting the facts we have, and our ability to transmit these facts into action. Some dairymen are able to reach this point within a few short years. Others spend the greater part of a lifetime and never obtain this satisfactory herd average.

Other Points to Consider

The Kansas DHIA annual summary for 1951 shows an average for 489 herds reporting of 8,638 pounds of milk. This means, of course, perhaps not more than one fourth of these herds are producing in the 10,000 class. There seem to be no shortcuts in developing a high herd average. It is not just a simple process of culling out low producers and saving good producers. Before culling our herds too deeply we should be pretty sure our feeding and management program is not actually cheating the cows. Authorities differ on per cent of production that can be attributed to feeding and management and the per cent attributed to breeding. I think most agree breeding represents somewhere between 15 and 25 per cent, while 75 to 85 per cent comes from feeding and management. Actually then before one culls an animal for reasons other than disease or unsoundness there are many factors to be considered.

For example, condition of the cow before she calves has a great influence on her production for that lactation period. It is entirely possible this condition alone could make the difference between a profitable and an unprofitable cow. There are so many factors that enter into good management a good dairyman has to be continually studying his lesson and be ever alert for information and ideas that will help him interpret his problem. There are no set rules I know, nor does anyone have the key to all the problems.

LIKES QUESTION-MARK HINGES



QUESTION-MARK hinges partially shown here supporting the door at the top of a self-feeder are the product of Jim Strong's ingenuity. Mr. Strong farms in Allen county.



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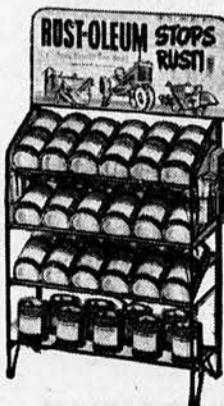
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COMING, NEXT ISSUE . . .

What trends are taking place in the Kansas poultry industry? Will baby chick prices be higher this year? Is it possible to make a profit on poultry at present egg-feed ratios? These and many other problems of interest to poultrymen will be discussed in special feature stories gathered by Kansas Farmer editors for your March 7 issue.

Farm Editors Tour Blue Valley And Hear Anti-Big Dam Speeches

By GORDON WEST



FARM EDITORS of newspapers, magazines and radio stations gather at historic old Mariadahl Church near Garrison, January 31, for a noon lunch served by Blue Valley Belles. This stop was a highlight of a tour by Blue Valley Study Association.

FIRSTHAND view of the prosperous agricultural Blue Valley of Kansas north of Manhattan and construction of Tuttle Creek Dam and its effects. That was the interesting prospect facing farm magazine and newspaper editors and radio men who toured that area January 31. Sponsors were members of Blue Valley Study Association. About 75 editors attended.

Blue Valley folks in cars in the long caravan reminded guests the Blue river did not flood in 1951, except where the Kaw river backed it up on lands. Outstanding farms and historical spots of interest were visited and inspected by the group. At noon a luncheon was served by the Blue Valley Belles at the Mariadahl church, oldest Swedish-Lutheran church west of the Missouri river. Colored slides of the Blue Valley were shown and several speeches made against further dam construction. State Representatives John D. Bower, of McLouth, and Fred Beatty, of Marshall county, were special guests.

Editors saw many of the 600 farms which would be inundated, and 5 of 8 towns which also would be wiped out if water is impounded behind the dam. Altho the dam is under construction (started last October 7) and crews work day and night, few residents have moved or sold land, believe the dam never will be completed. First Congressional appropriation was \$5,000,000 but more appropriations would have to be made by the present Congress for completion of dam.

Blue Valley folks restated their be-

lief in a water-management program based on watershed treatment to control erosion and raise food production up to 30 per cent. They approve small dams, ponds, contour farming and similar methods to "hold the water where it falls."

Conservation Contractors Meet in Manhattan

Second annual meeting of Kansas Conservation Contractors Association was held at Manhattan on February 13 and 14. More than 900 invitations were sent out for the meeting. Co-operating associations represented were: PMA, SCS, Extension service, Farm Bureau and others. While this is one of newest organizations, it has the largest membership of any state in the Nation.—*Ed Gordon, President.*

Insects Spread Wheat Mosaic

Insects are primarily responsible for transmission of mosaic disease to wheat crops, according to new findings of Kansas State College scientists.

Research will be greatly expanded and will concentrate on transmission of the disease by insects. Late planting of wheat in areas infested with wheat mosaic now is recommended to help control the disease.

Head Corn Group

New Kansas Hybrids Association officers elected during Farm and Home Week are:

Wilfred Johnson, Garrison, president; L. L. Utz, Highland, vice-president, and Carl Overly, Manhattan, secretary-manager.

A Big 4-H Year

Douglas county 4-H members made a profit of \$25,000 on their projects during 1952 club year. Participating in activities were 421 boys and girls.

Project which showed greatest margin of profit, percentagewise, was food preservation—with 12 girls enrolled.

Taming the Wind

Who says the wind can't be tamed? "Strips and Curves" is a booklet to inspire and encourage farmers wherever soil-blowing is a part or all of an erosion problem. The J. I. Case Co. booklet tells how strip-cropping, vegetative cover and contouring have power to temper the fury of wind and water. For a copy send us your name and address. Write Farm Service Editor, *Kansas Farmer*, Topeka, Kan.

Seed Treatment for Field and Garden Can Be Worth Many Times Its Cost

BETTER STANDS, higher yields and quality of this year's crops are especially important to Kansas' agricultural economy as well as the Nation's growing population needs. Treatment of seed, both for field and garden, can be worth many times its cost. Field crop yields average about 5 per cent higher when seed is treated, Claude L. King, Extension plant pathologist of Kansas State College points out, and over the state this reaches millions of dollars.

One of newest seed treatments is Panogen, a red liquid containing volatile organic mercury. It is reported as effective as dry mercury treatments, is desirable as it eliminates poisonous dust in air. Panogen does not freeze, has been thoroughly tested since 1949 at Kansas State College and in other states and is highly recommended.

The clear solution is sold in steel drums, applied at 1/4-ounce per bushel of seed. It should be applied with a Panogen treater or other treater which mixes it thoroughly with the seed. Seed is not damp or sticky after treating. Directions should be followed carefully.

Here's the scoreboard of seed treatments. For wheat bunt and flag smut, more uniform stands and increased seedling vigor, use Panogen, Ceresan, New Improved Ceresan, or copper carbonate. For loose smut, the hot-water treatment is used.

Should Be Treated

For loose and covered oat smuts, Victoria blight and better oat stands and seedling vigor, Panogen or Ceresans are recommended. Some varieties are more resistant, but should be treated for safety.

Barley covered and black loose smut and stripe are controlled by Panogen treatment or Ceresans as well as giving better stands and vigor. Brown loose smut is controlled by hot-water treatment.

For sorghums, Panogen, Spergon, Arasan, Copper Carbonate or Ceresans give control of kernel smut as well as boosting stands and seedling vigor. With seed supplies limited, treatment is especially important. Treating sorghum has given a 20 per cent increase in some cases.

For corn, Arasan and Spergon are recommended. New treatments are being tested but as yet are in experimental stage. Most hybrid corn companies treat their seed before sale. All corn seed should be treated. Flax also can be treated with Arasan, Spergon or Ceresans for better stands. Arasan is being used for legumes.

In the vegetable line, best recommendation for Irish potatoes is disease-free seed and that's a good idea any time. Good seed to begin with is well worth premium it costs. Semesan is good on all of the cucurbits except melons. Spergon is especially recom-

mended on beans and peas, Arasan on eggplant. Parsley and parsnips require no treatment. Pepper seed can be treated with Arasan, Phygon or Semesan. Seed treatment will control damping-off and related difficulties with tomatoes but not fusarium wilt. Seeds can be treated just by shaking up in an envelope or can with dust. Getting pretreated seed would be better and when seeds are purchased in quantity in bulk, they often are treated. Seeds purchased in packets seldom are. Some seed dipped in mercury solutions does not keep too long afterward, Elmo Davis, Kansas State horticulturalist, pointed out.

More thoughts on seed cleaning were suggested by E. D. Hansing, Kansas State Experiment Station plant pathol-

ogist. Seed treatment will protect weak seed from fungi on seed surface. It won't save dead seed tho! Seed should always be cleaned before treating. Then treatment will protect the seed from time of planting until emergence. Most benefit from seed treatment, of course, shows up with poor-quality seed in unfavorable weather. Best treat to be sure.

Gravity-type treaters are adequate for applying Ceresans. Relatively easy to make, plans are available from the College. Copper carbonate requires thorough mixing, more than gravity treater offers. An oil drum mixer is recommended here. Slurry machines are now available for large-scale applications of Arasan, Spergon and Ceresan M. Use of these compounds requires use of a good mask over mouth and nose. These and other machines are being installed in elevators over the state for convenience of farmers.

Hot-water treatment is as follows:

You Are Welcome

I want to thank everyone of Kansas Farmer for the wonderful things you offer busy farm women, by which we can feel we are "up and a coming."—Mrs. C. B. Vaughan, R. 5, Lawrence.

Place about 1/2-bushel seed in loosely-woven bushel sack, tie shut and soak in unheated water 4 to 6 hours. Temper seed by soaking 1 to 2 minutes in 120° F. water. For barley then soak for exactly 13 minutes in water held at 126° F., for wheat exactly 10 minutes at exactly 129° F. Quickly remove sacks of seed and submerge in cold water. Spread out treated seed in thin layer on clean floor or canvas to dry before sowing. Treat sufficient seed to sow in an isolated field to provide smut-free seed for following year.



here comes BEM the bonus BRAND!

SOMETIMES, in all the excitement over what BEM BRAND does on cash crops, folks are inclined to forget the miracles it can perform on pastures and haylands.

The evidence is all around you: USDA pasture experiments proved that one pound of plant food can bring an increase of 16 pounds of digestible nutrients . . . the equivalent of nearly 1/2 a bushel of corn, a bushel of oats, or 22 pounds of oil meal. Study of 44 hay fertilization experiments showed that a ton of fertilizer on hayland produced increased yields equal to 6400 pounds of

milk, or 770 pounds of beef. There are hundreds of case histories just like these.

What do these facts and figures mean to you? They mean that BEM BRAND Fertilizer can bring you hundreds of extra pounds of meat and milk from improved pastures and forage crops . . . the *cheapest* feed on your farm.

Get your soil tested now. Then get your pastures ready to produce those profitable bonus pounds of meat and milk . . . with BEM BRAND, the *bonus* fertilizer.

Feed 40 Million More

Forty million more people can be fed from land already in cultivation! How to do it? By following yield-boosting management methods and building low output soils up to high crop production levels.

University of Nebraska suggests: (1) encourage use of methods that increase production; study facts and figures about costs and returns, and (2) liberalize bank lending procedures so farmers on low-producing land with a high output potential can get financing to invest in fertilizers, drainage and other practices that build up silt and take care of surplus water.

By 1975 the population of the United States will have increased from the present 158,000,000 to 190,000,000 or more.

BEM BULLETIN BOARD

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

LISTEN TO "FARM PROFIT BUREAU"
WITH SAM SCHNEIDER
12:45 P.M.-M.W.F. on KVOO AND
"LIVESTOCK MARKET REPORT" WITH BOB RILEY AT 12:30 PM
MON., WED., FRI. ON KMBC-KFKM, 980 ON YOUR DIAL

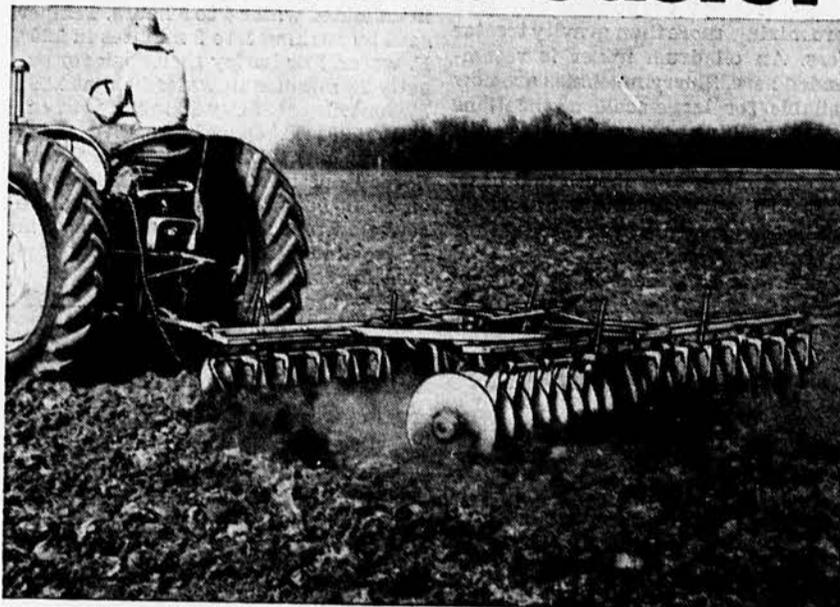
FREE
FERTILIZER
HANDBOOK
WRITE FARM SERVICE DEPT.
THURSTON CHEMICAL CO.
JOPLIN, MO.

Buy BEM...the bonus fertilizer!

THURSTON CHEMICAL CO.



Get firm well granulated seedbeds easier



at lower cost with a Massey-Harris DISC HARROW

SMOOTH, clod-free seedbeds are vital to high-yielding crops. They hold moisture better, make more nutrients available to growing plants, help control weeds . . . mean better, all-around production.

You get this kind of crop-promoting field performance with Massey-Harris Disc Harrows. They do a fast, fuel-saving job of breaking down large clods . . . of pulverizing, mixing crop residue, cutting tough hybrid corn stalks, discing for weed control and breaking soil crusts.

With their wide range of adjustment, 7-inch blade spacing, heavy steel draw frame — braced and trussed for perfect alignment — Massey-Harris Discs make short work of leveling ridges, filling in dead furrows, working sod.

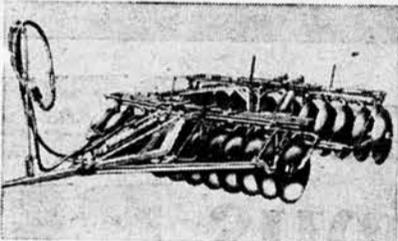
They penetrate quickly, hold uniform depth for evenly worked fields. Gangs respond quickly to the controls . . . let you work right up to grassed waterways without tearing the sod.

Blades are electrically heat-treated to resist splitting and curling. Big 24-pound, 8-sided bearings take the thrust of cutting packed soil. Bearings are reversible

and interchangeable for longer life, smoother operation.

Massey-Harris Tandem Discs are available in widths from 5'10" to 11'8" . . . standard and heavy-duty models . . . mechanical or hydraulic control.

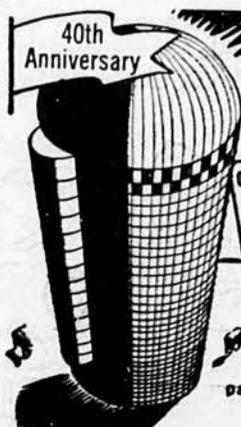
See your Massey-Harris dealer for the size and type to fit your farm. He'll be glad to give you complete details. For free folder by mail, write The Massey-Harris Co., Quality Ave., Dept. B-75, Racine, Wis.



Massey-Harris Disc Harrows are available with standard 8-inch stroke hydraulic ram to angle and close gangs. It's the same ram you use to control combine tables, plows, mowers and other pull-behind tools.

Make it a Massey-Harris

Parts and Service through more than 2500 authorized dealers



SALINA CONCRETE PRODUCTS, INC.
1104 W. Ash, Salina, Kansas

**NO DOWN PAYMENT
SAVE UP TO 5%**

ONLY SALINA SILO OFFERS THESE EXCLUSIVE FEATURES:
★ 25% More Door Space.
★ All Steel Doors in Reinforced Concrete. No Warping or Rotting.
★ Superior 4-Coat Plaster.

IF YOU BUY YOUR SALINA SILO BEFORE APRIL 1ST.

Savings Unequaled: Up to 5% discount if your purchase is made before April 1st, 1953, and erected before July 1st, 1953. (3% discount on early orders . . . and 2% discount for cash). If you buy on terms, you can save 3% . . . no down payment and three years to pay.

FREE

Send for your copy of this illustrated Salina Silo Booklet.

COMING EVENTS

February 22—Marshall county 4-H Club spring festival.

February 23—Pratt county winter crops and livestock school, at Pratt, club room, 7:30 to 10 P. M.

February 23—Butler county crops and beef meeting, at El Dorado, 10 A. M.

February 23—Elk County Livestock Association educational night meeting on livestock diseases, at Howard fair building, 8 P. M.

February 23 — Ottawa county winter crops school with L. E. Willoughby and Dell Gates of KSC, Extension room at 10 A. M.

February 23—Smith county 4-H leader training meeting with Glen Busset of KSC, at Smith Center community hall, 10 A. M. to 3 P. M.

February 24—Elk county welding school with Harold E. Stover and Harold Ramsour of KSC, Howard USDA building at 10 A. M.

February 24—Cloud county agronomy and entomology school, at Concordia high school.

February 24—Barber county 4-H officers and leaders training school with Raymond Fort of KSC, at Medicine Lodge.

February 24—Barton county landlord-tenant policy meeting with C. R. Jaccard and J. H. Coolidge of KSC.

February 24—Jewell county 4-H meeting with Glen M. Busset of KSC, at Mankato city hall, 10 A. M.

February 24—Lafayette county poultry school with M. A. Seaton of KSC, Altamont, 8 P. M.

February 24 — Doniphan county Artificial Breeders' Association annual meeting at Troy, 8 to 10 P. M.

February 24—Klowa county correlated crops and livestock school with Frank Bieberly and Lot F. Taylor of KSC, Greensburg community building at 7:30 P. M.

February 24-25—Cherokee county leaders training lesson on home furnishing with Mrs. Winona Starkey of KSC, Day meeting at Columbus 4-H building.

February 25—Smith county winter livestock school with Norman Whitehair, Ray Hoss and V. E. McAdams of KSC, at Smith Center community hall, 10 A. M. to 3 P. M.

February 25—Cherokee county winter school with M. A. Seaton of KSC at Columbus 4-H building.

February 25—Elk county crops and livestock school with E. A. Cleavinger and Wendell Moyer of KSC, All day meeting at Howard USDA building.

February 25—Leavenworth county Artificial Breeders' Association annual meeting.

February 25—Chautauqua county farm shop welding school, at Sedan.

February 25-27—Co-operative directors and managers conference at Manhattan.

February 25-27—Agricultural conference for Kansas bankers at Manhattan.

February 26—Jewell county livestock production and marketing school, at Mankato city hall, 10 A. M.

Plan to Build?

Planning some building on your farm? We have 2 new booklets available which can help you on wood rafters and arches. Publisher is Rilco Laminated Products, Inc., St. Paul, Minn. Just ask for the Rilco booklets. Write Farm and Home Service, Kansas Farmer, Topeka, Kan.

February 26—Pratt county Dairy Herd Improvement Association annual meeting, club room, 7:30 to 10 P. M.

February 26—Chautauqua county winter crops school, at Sedan.

February 26—Bourbon county Soil Conservation Service program planning meeting, at Fort Scott, courthouse at 10 A. M.

February 26—Coville county welding school with Harold Stover and Harold Ramsour of KSC.

February 27-28—Dehydrators production conference, at Manhattan.

February 27—Klowa county 4-H officers training school with Raymond Fort of KSC, Greensburg community building at 7:30 P. M.

February 27—Barber county fertilizer, crop and livestock school with Frank Bieberly and Lot F. Taylor of KSC, Medicine Lodge, 10 A. M. to 3 P. M.

February 27—Coffey county soil and crop production winter school meeting, at Burlington.

February 27—Cloud county agricultural planning meeting, at Concordia courthouse.

February 27 — Butler county engineering school with Harold Stover and Harold Ramsour of KSC, at El Dorado, 10 A. M.

February 27—Ellsworth county crops, soil and insect control meeting, at Ellsworth.

February 27—Clay county windbreaks, farmstead layouts and landscaping winter school, at Clay Center city hall, 9:30 A. M.

February 28—Cherokee county 4-H Club days, music and dramatics at CCHS, in Columbus.

March (tentative)—Kearny county 4-H Club day, at Lakin.

March 2—Russell county winter crops and livestock marketing school with L. E. Willoughby and Ray Hoss of KSC, at Russell.

March 3—Russell county leader training meeting for garden leaders with W. G. Amstein of KSC, at Russell.

March 3—Elk county Artificial Breeders' Association annual meeting with Ralph Bonewitz of KSC, Howard USDA building at 8 P. M.

March 3—Coffey county crops school, at Burlington.

March 3—Barton county meeting on efficient use of electricity with Harold E. Stover and Ethel W. Self of KSC.

March 3—Smith County Artificial Breeders' Association annual meeting with Arthur Jacobs of KSC, at Smith Center community hall, 8 P. M.

March 3-4—Sheridan county Union Pacific agriculture car, at Hoxie.

March 4—Butler county Dairy Herd Improvement Association annual meeting at El Dorado, 7:30 P. M.

March 4—Phillips county outlook meeting at courtroom, 1 P. M.

March 4—Morris county livestock meeting with Wendell Moyer of KSC.

March 4—Lafayette county crops and soils school with E. A. Cleavinger of KSC, at Altamont, 10 A. M.

March 4—Rawlins county engineering and crops school for machinery dealers, at Atwood Extension office, 7:30 P. M.

Party for Little Folks

We have prepared a new leaflet entitled "Party for Little Folks." It includes several games, decorations and refreshment suggestions. For a copy send 3 cents to Home Service Editor, Kansas Farmer, Topeka, Kan.

March 5—Sheridan county machinery dealers school, at Hoxie.

March 5—Jewell county poultry production and management school, at Mankato city hall, 10 A. M.

March 5—Stevens county barbecue at Hugoton Memorial hall, 7 P. M.

March 6—Stevens county Hereford sale, at Hugoton fairgrounds.

March 6—Russell county Union Pacific agriculture improvement car, at Paradise.

March 6—Kansas Poultry Industry Council, at Manhattan.

March 6-7—Association of Operative Millers, at Manhattan.

March 6-7—Rural Life Conference, at Manhattan.

March 6—Scott county Soil Conservation Service educational planning meeting, at Scott City.

March 7—Lamb Feeders Day, at Garden City.

March 7—Doniphan county 4-H Club day at Troy, 9 A. M. to 3 P. M.

March 7—Smith county 4-H Club day, at Smith Center high school, 10 A. M. to 3 P. M.

March 7-15—National 4-H Club Week.

March 9—Norton county farm welding school at Norton Legion hall, 10 A. M.

March 9—Butler county farm buildings meeting.

March 10—Nemaha county Artificial Breeders' Association annual meeting.

March 10—Wallace county garden insect and disease school at Wallace county courtroom.

March 10—Ottawa county Union Pacific Railway coach crops exhibit, at 10 A. M.

March 10—Ellsworth county housing tour at Ellsworth.

March 11—Russell county housing tour with Raymond L. Everson and Vera May Ellithorpe of KSC.

March 11—Hodgeman county dairy feeding, crops and weed control meeting at Jetmore.

March 11—Chautauqua county farmstead planning meeting with Leo Wendling of KSC, at Sedan.

March 11—Klowa county grain conditioning and marketing school with Harold Stover and Norman Whitehair of KSC, at Greensburg community building, 7:30 P. M.

March 11—Cherokee county forestry demonstration with Harold G. Gallaher of KSC, Day meeting.

March 12—Klowa county 4-H records school and demonstrations with J. H. Coolidge and John B. Hanna of KSC, Greensburg community building at 7:30 P. M.

March 12—Wallace county 4-H officers training school at Extension office.

March 12—Dickinson county poultry school at Abilene, 10 A. M. to 3 P. M.

March 12—Sheridan county welding school at Hoxie, 10 A. M.

March 12—Pratt county grain conditioning school at 4-H building, 1:30 to 4 P. M.

March 12-13—Barton county individual styling unit leaders training school.

March 12-14—Kansas Live Stock Association annual meeting, Wichita.

March 13—Pratt county 4-H leaders training school at club rooms, 10 A. M. to 4 P. M.

March 13—Barber county grain storage and marketing school with Harold Stover and Norman Whitehair of KSC, at Medicine Lodge, 10 A. M. to 3 P. M.

March 16—Grant county welding school with Harold Ramsour and John M. Ferguson of KSC, at Ulysses high school, 10 A. M.

March 16—Scott county livestock tour at Scott City.

March 17—Kansas Alfalfa Conference at Manhattan.

March 17—Linn county poultry school with Marion E. Jackson and M. A. Seaton of KSC, at Mound City courthouse.

March 17—Rawlins county farmstead and landscape layout meeting in preparation for later demonstration.

March 17—Grant county home furnishings lesson on window treatment with Mrs. Winona Starkey of KSC, at Ulysses 4-H building, 10 A. M.

March 17—Morris county marketing meeting with Norman Whitehair of KSC, at Wilsey community hall.

March 17—Doniphan county district crop improvement school at Troy, 10 A. M. to 3 P. M.

March 17—Hodgeman county West-Central Dairy Herd Improvement Association annual meeting at Jetmore courtroom.

PURINA

CHECKERBOARD NEWS

Springtime is opportunity time!

This is usually true,
but it's especially true
this year because:

1. Prospects for making money from livestock and poultry are so good.
2. Research discoveries now help feeders grow better chicks, poult, pigs, calves and other young stock than ever before.

It's a busy time on the farm when springtime babies arrive. They need care. They must both live and grow to make money. This year, with the aid of the many new "growth boosters" now available, it should be an easier job to start and grow 'em right. And the chances for profit look bright, too.

THE MONEY PICTURE The long range profit picture looks good for the farmer and feeder. Each of the 7,274,000 Americans directly engaged in the production of grain, meat, milk and eggs must raise food for 21 town and city dwellers. Employment continues high and this, combined with the rapid increase in population, should provide a brisk demand for food products.

WHAT POPULATION INCREASES MEAN The U. S. Census Bureau estimates that the United States population will increase about 2½ million next year—that's more than 4 new babies every minute. They estimate that by 1975 the population will reach



the whopping figure of about 200,000,000. These extra mouths must be fed from the same number of acres we now have. That means *doing a better job; getting more from what we have.*

If the average American eats as much meat, milk and eggs this year as last, we'll need to produce these staggering extra amounts of food:

- 84½ million dozen more eggs. It will take 5½ million extra hens to lay them.
- 176¾ million pounds of pork. 1,523,500 extra market hogs weighing 200 pounds each will be needed.
- 151 million pounds of beef. It will take 252,000 steers each weighing 1,000 pounds to supply this need.
- 73¾ million pounds of poultry meat. We'll need 24½ million extra fryers each weighing 3 pounds.
- 14 million pounds of turkey. We'll need 800,000 extra 20-pound turkeys.
- 112½ million gallons of milk (estimated on basis of 1 pint per day per person).

Similar increases are reflected in all other farm products.

RESEARCH THE ANSWER TO PRODUCTION Fortunately scientific progress in agriculture has kept pace with our needs. Development of hybrid grains, soil conservation, pasture improvement and better use of fertilizers have stretched the productive ability of each acre of land.

Now, discovery and use of the "growth boosters" is increasing the efficient growth and production of livestock and poultry, helping them return more milk, meat or eggs per unit of grain. Greatest improvements have been made in rations of young animals—chicks, poult, pigs, calves and other springtime babies.

PURINA HAS PIONEERED THIS FIELD This spring Purina offers new and improved growth-promoting products. They are both research and farm proved to help farmers and feeders get more from all classes of young livestock and poultry.

Please read the following pages for complete information on the dollars and cents advantage of feeding Purina Chick Startena, Pig Startena, Turkey Startena, new Nursing Chow, Creep Chow and other Purina rations. See what kind of results your neighbors are getting under management conditions similar to those you can supply.

We believe that spring, 1953, is truly opportunity time—and we are proud of the part Purina Research is playing to help young animals and poultry live better and grow more economically than ever before in feeding experience.

SEE INSIDE. The next three pages tell how Purina Research has been applied to solve feeding problems of special interest to you. And you'll learn of the extra profit benefits coming to feeders as a result of Purina Research and application of the Purina feeding programs.



KANSAS STATE UNIVERSITY LIBRARY

EARLY START

should make
20¢ to 40¢ more
profit per bird...

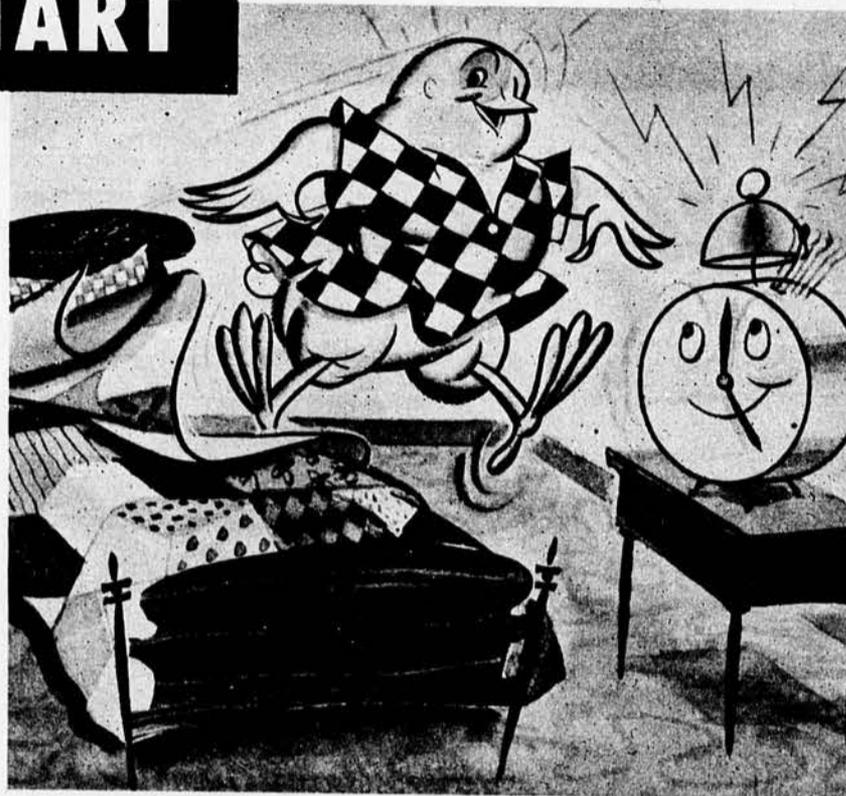
IT'S A FACT that egg prices always have averaged higher in September, October, November and December than they have during the next four winter months. You can turn this fact into a lot of extra income—by starting your chicks early. Good production-bred chicks started by March 1st should be laying 50% by September 1st. And the rate of lay should quickly go up to 70 or 75% if they are well fed and cared for.

What's more, if these early chicks and pullets are properly fed, so their bodies will be well-developed, they should lay big eggs all fall.

The combination of big eggs and early eggs should give you your best production right while prices are highest.

Chicks started in March should lay at least 20 more fall eggs than April-hatched chicks. And they should make about 20¢ more per bird.

February chicks should lay around 40 more eggs in the fall than you can expect from April-hatched chicks. These early eggs should bring you at least 40¢ per bird more



than eggs laid after the first of the year. That's \$40 extra income from each 100 early-hatched pullets—a fine "reward" for starting early.

It's easy to start early

Modern methods have made early chicks just as easy to raise as those started in April or May. Good brooder stoves or heat lamps keep chicks comfortably warm with very little trouble.

And today's Purina Chick Start-

ena is so highly fortified it will grow good chicks in any weather. So why not see your Purina Dealer real soon? He sells or knows where you can get top-quality, production-bred chicks. And he handles the chick starter most poultry raisers like best—Purina Chick Startena. Takes only 2 pounds per chick to give them the fast, sturdy start you like to see. Why not call him this very week and get going on a real profit flock for early next fall?

Purina Farm Flash...

New Purina Program DOUBLES Average Weaned Litter Weights



Purina Pig Startena, creep-fed, helps produce record-breaking weaned litters at Farm.

IN A TEST just completed with 174 pigs, those creep-fed Pig Startena averaged 47.62 lbs. each at weaning. This is in comparison to the estimated U. S. average weaning weight of only 30 lbs.

Litter weights doubled. These litters have a total weight of 386.09 lbs. . . . just about double the U. S. average.

Most hog men wean only 6.44 pigs weighing 30 lbs. each. Their litter weight is only 193.2 lbs. The difference between their results and the Research Farm test results is 192.89 lbs. per litter.

Weaning weights are important! A heavier pig at weaning means a heavier hog on market day . . . and a hog that reaches market weight weeks earlier.

Pig Startena now part of Purina Program. Because of results like these at the Purina Farm and on thousands of farms across the country, Pig Startena is now part of the regular Purina Hog Program. It is recommended that Startena be creep-fed from 2 weeks through weaning at 9 weeks of age.

Why Pig Startena does the job. Pig Startena, a complete feed, contains the "growth boosters" needed to give pigs a fast start. It has the nutritional elements and minerals which stimulate appetites and growth. Startena is recommended for all pigs. It will help set poor-doing pigs on the profit road and get good-doers off to a fast start . . . and it's economical to feed.

This spring see for yourself what Pig Startena will do. Ask your Purina Dealer to tell you of results some of your neighbors have gotten with this new product.

NEW MILK REPLACER...

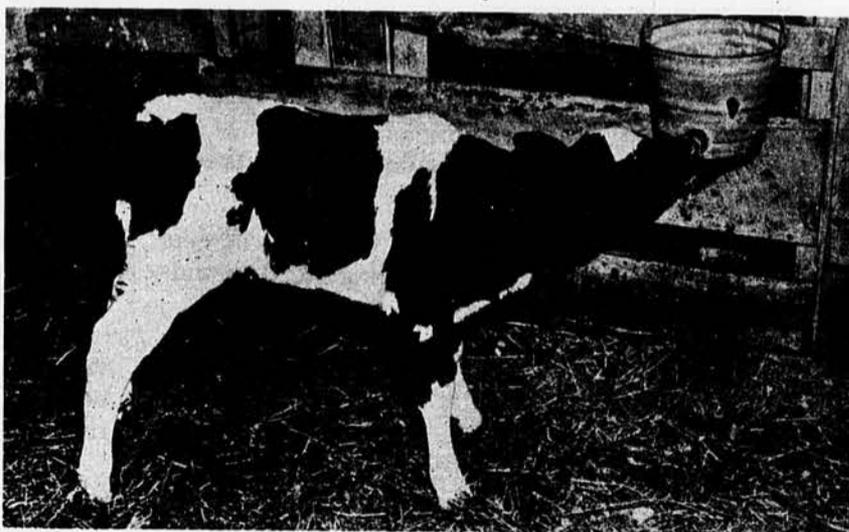
Now dairymen can save milk, cut labor—raise calves at about half the cost of milk.

WHOLE MILK is so valuable today that a good milk replacer for calves has become almost a necessity on every farm. So we are especially pleased to release Purina Nursing Chow for sale.

Nursing Chow contains, in proper balance, the ingredients that promote fast growth. It is made up of all ingredients found in milk, plus growth-promoting antibiotics.

We have been working on Nursing Chow for three years, and in that time made many improvements over similar products tested at our Farm. In the last experiment, 15 calves getting Nursing Chow averaged 20 lbs. more per head than 8 others getting a gallon of whole milk per head daily. These calves were only 8 weeks old at the end of the experiment, when the above weights were taken.

This new product is fed in gruel form during the first month of the



Holstein calves getting Nursing Chow at the Purina Farm in 1952 averaged 320 lbs. at 4 months. That's at least 70 lbs. above Morrison's average for the breed.

calf's life. Dry Purina Calf Startena also is self-fed, starting when the calf is 3 days old. Nursing Chow is cut out at the end of the month, but Calf Startena is continued until the calf is 4 months old.

We have also observed that digestive upsets are less frequent among calves fed Nursing Chow than with milk-fed calves. And, since a 25-pound bag of Nursing

Chow takes the place of about 200 lbs. of milk, it costs only about half as much as the milk it replaces.

Coming in dry form, the product mixes easily, stays in suspension and feeds through nipple pails without clogging. And its use should reduce labor of calf care. An unlimited number of calves can be fed at one time and there's no bother with nurse cows.

RIGHT "GROWTH BOOSTERS" FOUND by PURINA RESEARCH

GOOD FEEDERS are no longer satisfied with average gain rates, based on yesterday's standards. The new "growth boosters" have changed the picture. Now, producers can feed quality livestock and poultry rations and expect what once would have been considered record-breaking gains.

About 200 antibiotics have been discovered. Nearly a dozen have

nutritional value. From these, Purina researchers have chosen the ones they found most effective for increasing growth and feed efficiency and for reducing loss from death and sickness in young poultry and livestock.

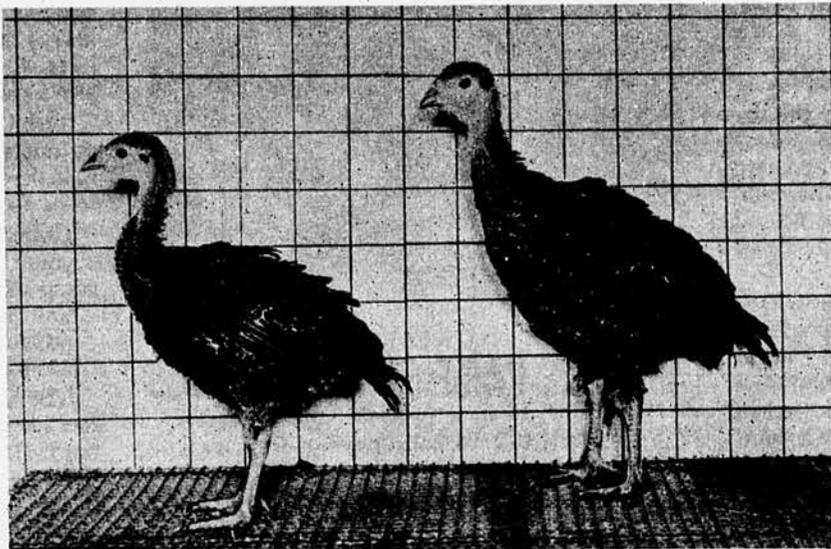
It takes more than the addition of some newly-discovered antibiotics to produce a dependable, growth-promoting livestock or

poultry ration. Before the new ingredients are added, research men must test for the best combination—check to see that extra early growth follows through to produce more meat at market time. Purina uses a combination of experienced milling knowledge and precision milling equipment to insure that ingredients are properly mixed in formulas.

FAST GROWTH, high livability and good feathering—these are results poultrymen strive for. They are also results that thousands of producers expect when feeding Purina Chick Startena Checker-Etts.

Fast growth is due to the addition of Formula "1028"—perfected after Purina Research had tested 1,028 formulas. This exclusive combination of antibiotics, vitamin B₁₂ and growth vitamins helps produce big strong birds.

Great improvements have also been made in turkey starting rations. Photo at right shows the difference in growth rate between 1953 Turkey Startena and a 1950 Purina ration.



CREEP-FED pigs at the Purina Farm average 47.62 lbs. at weaning—see pig at right. Estimated U. S. average weaning weight is 30 lbs., approximate size of the smaller pig. The Purina pigs are creep-fed Purina Pig Startena and get Sow and Pig Chow and grain along with the sows.

The "growth boosters" in Pig Startena and Sow & Pig Chow get pigs off to a fast start. The extra pounds put on while pigs are young mean more profit for the producer. Early gains are more efficient and hogs get to market sooner. With the Purina Hog Program it's easy to market 200-225 lb. hogs at about 5½ months.

IT'S SIZE, not the age of heifers that determines when they start paying for their keep. That's why it's important to start calves right and keep them growing fast.

At 4 months, Holstein calves on Purina Nursing Chow and Calf Startena consistently weigh 70 lbs. more than the accepted U. S. average for calves that age.

Purina Nursing Chow and Calf Startena contain the proper combination of growth-boosting ingredients needed for the extra gain.

Guernsey calf at right weighs over 251 lbs., the average for 4-month-olds on the Purina Program. Calf at left weighs 177 lbs., the weight of most Guernsey calves at that age.



**Creep Feeding
Purina Paid \$8.91 Per
Calf Above Feed Costs**

Creep feeding may make difference between profit or loss this season.

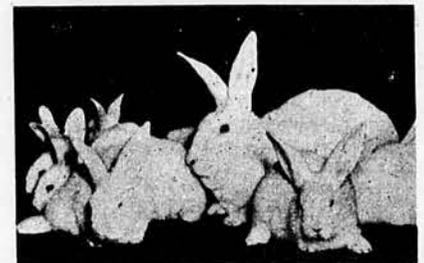
Upgrading and extra weight of creep-fed calves averaged \$8.91 per calf above feed costs in our tests with more than 1,240 head of cattle. The average return per dollar invested in creep feed was \$1.94.

The results of all these tests, run during periods of varying markets and held throughout cattle country, proved creep feeding Purina paid in these ways:

1. **EARLIER MARKET**... Creep feeding makes it possible to sell calves ahead of the regular run.
2. **UPGRADING**... There were 34% more Choice and Good calves in the creep-fed lots.
3. **HEAVIER CALVES**... Creep-fed calves in all these tests averaged 39½ lbs. more than non-creep mates.
4. **BETTER COW CONDITION**... Cows with creep-fed calves came through 44.8 lbs. heavier. Cows were in better condition for the next calf crop.
5. **HIGHER DRESS-OUT**... Average yield of Choice calves is about 58-60%, Good calves about 56-59%. Packer buyers like calves that dress out like this.

Drop in at your Purina Dealer's next time you're in town and ask him to tell you more about Purina's creep feeding rations.

Good rabbit litters add to nation's meat supply



Rabbit production, ever growing in importance, has come in for its share of research at the Purina Farm.

Briefly, Purina research has shown that the most successful rabbit grower will plan on 4 litters a year, weaning at 8 weeks of age.

And figuring that each litter contains 8 young weighing 4 to 4½ lbs. apiece at weaning, you'll find that a good doe will account for 130-140 lbs. of rabbit meat each year.

Other possibilities of making money from this "back yard industry" include sale of breeding stock, animals for laboratory use, pets, fur, wool, and fertilizer.

PURINA CHECKERBOARD NEWS

Starting young stock right helped these folks **MAKE EXTRA MONEY!**

CHARITON COUNTY TENANT'S FLOCKS AVERAGED 215 EGGS

BYNUMVILLE, MO.—Harold and Ruth King, young tenant farmers of Bynumville, were winners in the 1950-51 egg production contest sponsored jointly by the Missouri College of Agriculture, the Kansas City Chamber of Commerce and the Weekly Kansas City Star with a production average of 215 eggs per hen.

Egg profits in 1950-51 were higher than usual, but the profit above feed cost per hen in the Missouri contests ranging from \$2.88 to \$6.77 gives an idea of the poultry profit possibilities.

"On cold winter days 'Id rather sit by the fire in an easy chair than work with chickens," Harold King confessed, "but my wife and two little girls need things that call for extra cash. My wife Ruth and daughters Patricia, 6, and Becky, 2, are the real reasons I'm interested in chickens."

"Last year we started 200 New Hampshire pullet chicks and 100 cockerels on January 11th. Up to 5 weeks, when we switched from Purina Chick Startena to Pullet Chow, we had lost 8 chicks. This is the same program followed in developing the prize winning flock. Our second brood of 600 New Hampshire pullets and 200 straight runs were started March 3rd. Out of this brood we had lost 5 chicks at 5 weeks."



Harold and Ruth King were raised on farms in the Bynumville community. They take an active interest in 4-H Clubs and Vocational Agricultural work.



NEBRASKAN USES PURINA PROGRAM RIGHT FOR BEST RESULTS

HENRY, NEB.—"I'm growing out larger and better calves since switching 100% to the Purina Program," states Clayton Couch.

"I've found that it's much better to grow out my own replacements rather than buy them. It's just as cheap in the long run, if not cheaper, and I know exactly what I have... don't have to take the chance of getting someone else's trouble."

"And I can tell my cows have a more consistent flow of milk, too. They're not up one month and down the next like they are on some feeds," he says.

Couch emphasizes that you've got to use the Purina Program as recommended to get maximum results. "Since I've been feeding D & F Chow to my dry cows, they've gained in condition, making them in better shape at freshening."

The heifer Couch had as a 4-H project in 1941 has served as the basis for his registered Jersey herd. He now has 23 cows in his herd that stem back to this original heifer.



Clayton Couch and a couple of future producers... they're being grown out on the Purina Program.

40 SOWS RAISE 322 SPRING PIGS

LETTS, IOWA—"Nobody pays us for pigs that die," said Joseph W. Meeker, of Letts, Iowa, "and Dad and I are in the hog business to make money. Occasionally one of our sows will have bad luck and lose most of her pigs, but we've been weaning an average of 8 pigs or better from 80-85 sows."

"Before going on Purina our sows often had udder trouble, but we haven't had any trouble of this kind for four or five years. Right now we've got 322 spring pigs on hand that were raised by 40 sows. The first litter of this lot came February 28th, and the others early in March, so you know they saw some rough weather."

"We farrow principally in colony houses that are drawn up close to the barnyard for early spring farrowing. We usually market at 6 months, and our hogs have been weighing from 225 to 250 lbs."

"In addition to Purina supplement we feed corn and oats and run them on pasture of brome and alfalfa. This year we used Ladino for the first time."

CALAMITY CAL...



Virginia Armstrong Named To State 4-H Staff



Virginia F. Armstrong

Named to the State Club office as assistant state 4-H Club leader is Virginia F. Armstrong, former Rooks county home agent. A Kansas State College home economics and extension graduate, Miss Armstrong will work in the place of Mary Elsie Border, assistant leader now on leave of absence overseas.

A former 4-H member in Sumner county for 10 years, Miss Armstrong was active at Kansas State College in both service and honorary organizations. She is from Wellington. As assistant state leader she will participate in state-wide club events, county and district officers and leaders meetings and organization work.

Hamilton County Does Fine Soil Work

Conservation treatment of small watersheds was the greatest accomplishment of 1952 in SCS work in Hamilton county. This is pointed out by Fred Meyer, county work unit conservationist with the SCS.

Howard Barstow protected 300 acres with terraces in 1951, and an additional 160 acres in 1952. In the next few months, 320 more acres will be terraced. In addition he will seed 160 acres of the land terraced in 1951 to native grass.

This report is a sample of the fine soil work done in Hamilton county. Farmers level land, locate irrigation wells, build ponds, seed grass. In 1952, landowners brought protection to 5,330 acres of cropland with 222 miles of level terraces and 2.75 miles of diversion terraces. About 250 acres of irrigation land was leveled for more efficient use of water. Ten irrigation systems on 330 acres were installed. Four irrigation wells were put on farms in the SCS district. Five hundred acres were seeded to native grasses thru use of a new grass drill. An additional 3,100 acres were seeded by other planting methods. A total of 515 acres of grassland were contour-furrowed and stock and water dams built in 11 pasture locations.

Kansans Help Start a Silo Research Institute

Two Kansans are aiding in developing a Silo Research Institute for the United States.

Glenn and Leon Dodson, of Dodson Manufacturing Company, Wichita, were among those present at a recent meeting at New Brunswick, N. J. Informal discussion of possibility of setting up a Silo Research Institute was arranged by agricultural engineers at Rutgers University. The meeting was outgrowth of suggestions made at Chicago at recent annual meeting of the National Association of Silo Manufacturers.

The new Institute would sponsor basic investigations of silo design and

operation. Proposals for the new group are being circulated thruout the silo industry in the U. S. to find out degree of interest and potential support.

At the New Jersey meeting, center of interest of discussion was further development of self-feeding structures. Other aspects of silo design and operation are in need of further research.

Reporters Enter State 4-H Contest

Here is second list of 4-H Club news reporters who have written *Kansas Farmer* for information on 1953 State 4-H Reporters contest. To each we've mailed one of our "Suggestion Sheets" of stories to prepare.

Patricia Pletcher, Axtell; Billy Garrison, Miltonvale; Donita Gisick, Timken; Roberta Swenson, Falun; Jane Kountz, Route 4, Hutchinson; Eva Moran, Route 9, Topeka; Peggy Jo Baugher, Route 1, Ellis; Delores Schrick, Nortonville; N. Kathryn Penner, Route 2, Hillsboro; Kay Fagen, Spearville; Rosa Lee Urban, Miltonvale; Jacqueline Small, Leona; Mary A. Herman, Route 2, Westphalia; Myrna Deemy, Solomon; Clare Patterson, Jr., Augusta; Beverly Janice Owens, Route 2, WaKeeney; Mary Hawkinson, Ness City; Ted Patterson, Route 2, Pratt; LeAnna Boline, Admire.

Several leaders have written also, and Dan Trayer, county agent at Jetmore, wrote for 10 Suggestion Sheets for reporters in Hodgeman county. Any 4-H reporter is welcome to enter the contest, of which *Kansas Farmer* is sponsor.

Kansas Is Helping In Heart Fund

Contributions began rolling in this week as volunteers from all 105 Kansas counties launched the Kansas Heart Association's 1953 campaign for funds.

With sights set on a goal of \$100,000, local, county, area and state chairmen have co-ordinated their efforts to raise the most money the heart association has ever sought in Kansas.

Dr. James A. McCain, president of Kansas State College and general chairman of the fund campaign, said in a statement launching the drive:

"I urgently appeal to the citizens of Kansas to contribute all they can to the heart association of this state. Funds are sorely needed to continue research being carried on over the Nation, designed to ease the serious conditions brought on by heart disease.

"Educational program such as the ones conducted by the Kansas Heart Association and research work like that under way at the University of Kansas need the help of all of us."

The drive, corresponding with a nation-wide campaign conducted by state associations in connection with the American Heart Association, will continue thruout February.

Goes to Africa

A Kansan is in Somalia, Africa, to improve agricultural conditions. Ralph Germann, 1931 Kansas State College graduate and former Russell county agent and native of Fairview, is working with Italian agricultural offices. He is seeing whether hybrid corn can be grown in Somalia, and is studying other ways of increasing food crops. Experimental plots similar to U. S. experimental station plots are used.

Since World War II he has been a leader in introducing hybrid corn to Italy. In 1947 he went to Rome to join the UN Food and Agriculture Organization. Since 1949 Mr. Germann has been with the Ministry of Agriculture and the Mutual Security Agency in Rome.

Name a Kansan

Named secretary-treasurer of the National Association of Wheat Growers for 1953 is H. W. Cutter, Holcomb. Officers were elected at a meeting at Omaha, Nebr., January 31.

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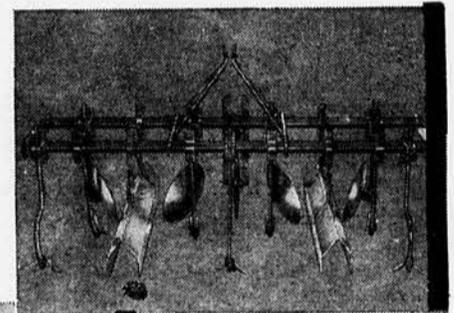
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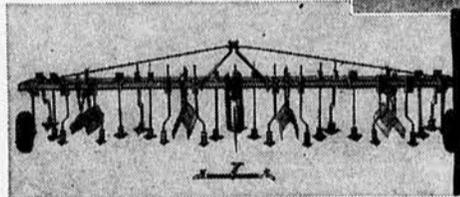
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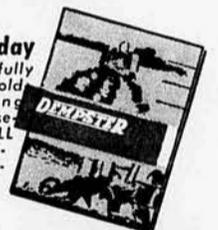
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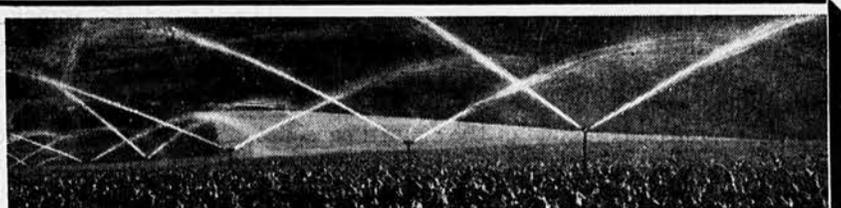
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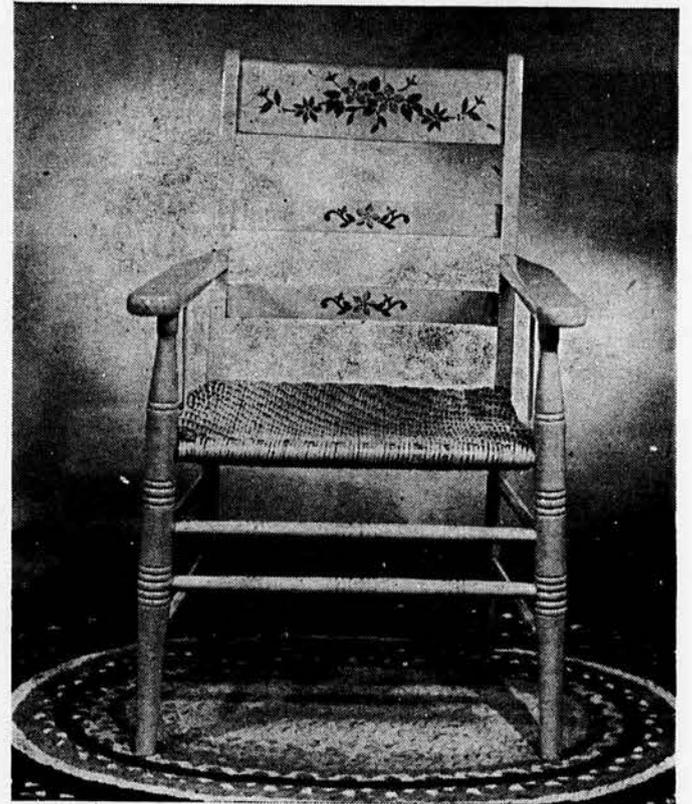
Muskogee, Okla.

Kansas Farm Home and Family

FLORENCE MCKINNEY, Editor



THIS DRESSER came from a secondhand store, now takes honor place in bedroom.



FUGITIVE from a junk pile is covered with light green enamel with designs in several gay colors.

IT'S FUN . . .

Painting Furniture

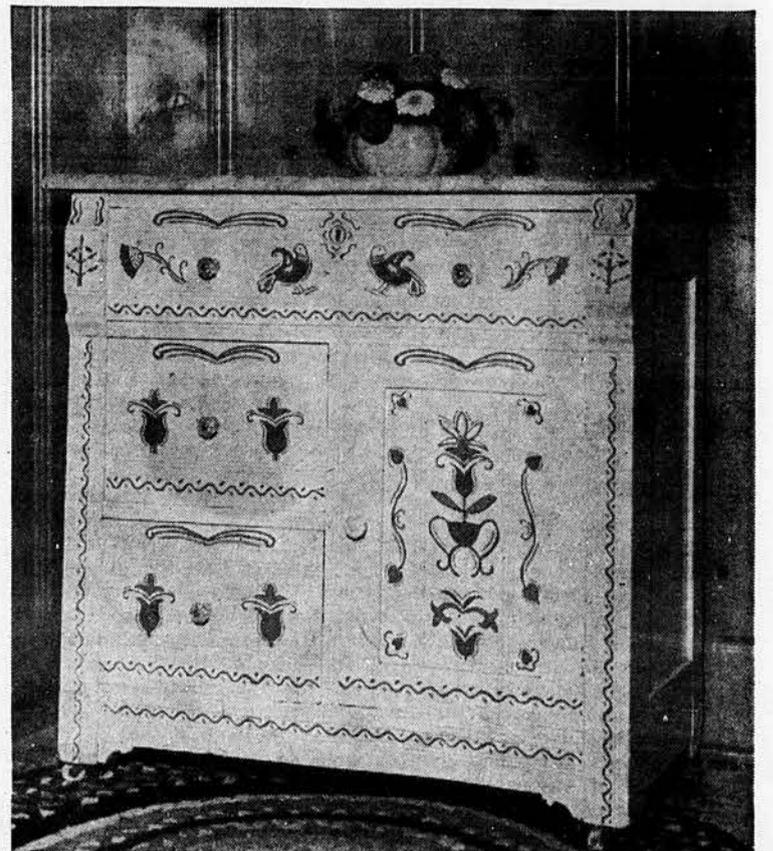
By MARY HOLMAN GRIMES

A LITTLE elbow grease, some bright paint and a measure of imagination will turn some old discarded furniture into conversation pieces. And what a lift one can get from her own creative effort. My first decorating venture was a marble-topped chest, a once-upon-a-time washstand. Layered with paint and scorched on one side, it was just an odd piece of furniture in my kitchen until I decided it was exactly what I needed in the living room to spark up the place.

The paint was crusty and rather loose, so I did not use paint remover, but scraped with an old knife, then sandpapered with good results. Enamel undercoat and 2 coats of a good enamel made a smooth, hard finish for the designs I wanted to apply.

I chose sunbeam yellow for the enamel base, actually a rich cream, and used Pennsylvania Dutch designs similar to some I found in a home magazine for my decorating venture. Colors were rust-red, green, yellow and blue. Designs drawn on the wood with a pencil, I found, tend to cut the enamel, so I first drew them on white paper. Next, I darkened solidly the back of the paper with a lead pencil. Next I placed the blackened side of the paper on the enameled surface where I wanted the design, using Scotch tape to hold it in place and traced in pencil around the design onto the furniture. This doesn't cut the paint or enamel and it takes out much of the uncertainty as any mistakes in design can be corrected on the paper. I found that carbon paper smears and mixes with the paint.

Bits of leftover enamel are satisfactory for the designs, but I prefer oil paints mixed with a bit of quick-drying colorless varnish. It mixes easier. Children's school paints, tho are not satisfactory. Actually I was able to get any color I wanted with the use of the 3 primary colors, red, [Continued on Page 31]



A ONCE-UPON-A-TIME washstand now livens the living room, adds interest and makes conversation.

THE RECIPE CORNER



COMPANY FARE is pineapple Upside-Down layer cake made from cake mix in 2 layers.

Pineapple Upside-Down Layer Cake

- 1/2 cup melted butter
- 1/2 cup brown sugar
- 1/2 cup pineapple juice
- 1 cup drained crushed pineapple
- box white cake mix

Combine butter, brown sugar and pineapple juice. Spread in bottoms of two 8- or 9-inch round cake pans. Cover with 1 cup of drained crushed pineapple. Prepare cake batter as directed on box. Pour over fruit in pans. Bake in moderate oven (375°) 25 to 35 minutes. Invert layers for 5 minutes. Remove pans and cool. Decorate with quartered slices, serve as layer cake.

Oven-Fried Potatoes

Peel and prepare potatoes as for French fries. Brush with melted butter or other drippings. Sprinkle with salt and arrange the strips in a single layer on a shallow pan. Bake until golden brown; 30 to 40 min. in hot oven.

Fish Baked in Cream

Frozen fish perhaps is the best, most economical buy for your main protein dish. You may take your choice of several varieties in most modern groceries, halibut, flounder, haddock, catfish fillets, perch fillets, salmon steaks.

- 3 medium-sized onions
- 1 tablespoon butter
- 1 pound fish fillets
- 3 tablespoons flour
- 1/2 cup light cream
- 1/2 teaspoon salt
- paprika

Lightly brown the sliced onions in butter. Place in baking dish. Roll fish fillets in flour and place on the onions. Pour cream over the fish. Sprinkle lightly with paprika. Bake about 40 minutes in medium oven (350°). Salt to taste. Serves about 4.

It's easy to overcook fish. When the fish flesh flakes easily from the bone it has reached its most moist, tender stage. Slow cooking is a must.

SCHOOLS, ROADS, LIBRARIES EQUALLY IMPORTANT

A public library is a community responsibility and in turn performs a community service. Its support from public funds is as justifiable for the common welfare of people as the fire department, the schools, the water department, public roads. Certainly no study of equality of educational or recreational services in the community is complete without considering the library's contribution and its fair support from the tax dollar.

It's Fun Painting Furniture

(Continued from Page 30)

yellow and blue, plus white for getting lighter tones. A good-grade brush is not an extravagance.

After I finished the marble-topped chest, I was feeling rather brush-happy, so I started another piece almost at once. I needed more drawer space in a bedroom, so I visited a used furniture store and chose an old dresser without a mirror for the express purpose of decorating it.

It was fun sawing off the legs and contrary to expectations, I didn't have to saw all of them twice... only one of them. The dresser was varnished and I wanted it white, so I washed it, sanded it thoroughly and followed the same procedure of enamel undercoat and enamel.

Inspired by some attractive designs I'd seen, I adapted them for my purpose and started painting. Often only a tiny part of a design started my imagination and I developed something really original. I forgot about lunch, it was so intriguing. This little dresser now has no resemblance to the original from the secondhand store.

The chair pictured here was a forlorn piece, a fugitive from a junk pile. I bought a table and the chair was thrown in. It looked it! But being sturdy and comfortable, it finally came in for its share of decorating, too. The undercoat is a light green and the designs are in tangerine, brown, dark green and black. I used an old sample book of wallpaper for design ideas.

When I painted flower petals such as those on the chair, I started at the tip, outlined the petal with 2 strokes of the brush, then filled in. Leaves, I did just the opposite, worked toward the tip. I made curved strokes with a sweeping, rather quick motion. Practice on paper and a piece of wood helped to overcome timidity.

Sometimes it was difficult to place furniture in a position comfortable for working. I learned to place drawers on a table, also placed the chair on a table while decorating the back of it.

I was thru in no time and I had fun. Moreover my friends and I like the results.



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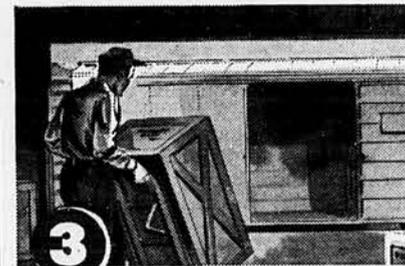
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Little Gifts for Friends When They're Sick-a-Bed



SMALL FRY convalescing from an illness love a bowl of small fish. Fifty cents will give a lot of joy and speed recovery.

TO CHEER UP your small fry or your neighbor when they are ill won't take much time . . . but it will take a bit of ingenuity. One of the nicest things is a small bowl of fish. They are colorful and amusing and don't require much care. For 50 cents you can buy bowl, 2 fish and the little extras like food. Guppies, a tropical fish, are very small and simply fascinate small children. Two or 3 of them in a small glass aquarium with colored pearl chips and green seaweed in the bowl will amuse a child for hours.

A box of a variety of small items from the dime store will hold the attention for days . . . little books, paper dolls, crayolas, color books, toys, balls . . . all of these might well be included. Each small package should be wrapped gaily as children like pretty things and each one labeled with a different day of the week. Small Susie can open one a day while she is ill and the idea of guessing about the package will help cheer her. Get-well cards coming by way of the mail carrier will help, too.

Among our older feminine friends there are countless small gifts that will please her. Smart aprons, useful tea towels and toilet water will please any woman. Teen-agers like things they can wear when the gang comes to see them.

If your friend can eat whatever she desires, home-cooked delicacies are a treat. Often convalescents crave some special foods.

The girl whose pet hobby is growing plants can give special attention to one plant. This, with a big bow on it, will cheer any room as well as the convalescent. And it won't require much spe-

cial work for the busy nurse. One idea is to send a rose a day instead of a big bouquet at one time. This stretches out the joy of having flowers about. Perfume, whether it be the liquid type or the newer solid stick, is a sure-fire hit for a gift to the sick. Small bottles of perfume for her purse are a sweet reminder to get well.

When she is back again on the road to health, yarn and a small hand frame for weaving blocks will help keep her occupied. These blocks can be put together later to make an afghan.

Things to make the patient look and feel prettier usually bring sparkle to her eyes. Pretty hair ribbons, cosmetics, a manicure set, a hairbrush, or a dainty bed jacket will make her feel and look better.

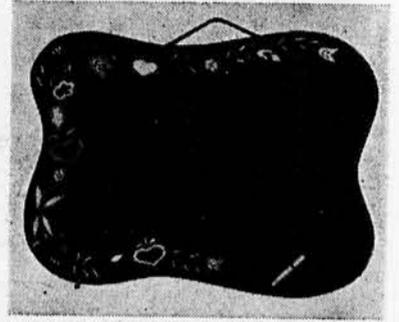
If she feels well enough to read, magazines and small-size books make excellent gifts. They should not be heavy and if chosen with care will be interesting enough to keep her mind off the illness. Jigsaw puzzles help to occupy spare time and many folks love them.

Does she have a hobby collection? If so, this is a good time to add some items to it. If not, ask her if she is interested in starting one, especially if her convalescence will be long.

A radio is a blessing to many people when in a hospital. But this item is one that should be discussed with the patient and doctor ahead of time.

The next time a friend of yours is on the sick list, put on your thinking cap. You can express your friendship and affection with some small gift, no matter how large or small.

work, spreads smoothly with little danger of brush marks. It is self-sealing and one coat often is all that is needed. After having been applied, let it remain untouched for several weeks, after which it withstands scrubbing as well or better than flat or oil paints. It covers hairline cracks better than other paints. Most paint manufacturers now have it in stock.



This blackboard is designed for grown-ups who may use it in many ways. In the kitchen use it for the grocery list or reminder notes to the small fry. It's 11 by 14 inches and has a washable surface, with chalk and cord furnished. Perfect for a birthday gift to a special friend. Comes in 3 decoration choices and sells for \$2. Order from Town and Country House, Department 1, 1124 South Harvey Avenue, Oak Park, Ill.

There's a good many winter clothes, as well as nylon hose going into home freezers lately, according to the Bureau of Human Nutrition and Home Economics. They take a dim view of using space for clothing. There are wonderful sprays and other methods to prevent moths from damaging clothes and as for nylon hose, chilling in the refrigerator or home freezer is of no use whatsoever. Tests have proven this.



The Prophylactic Brush Company now has a tidy-up kit designed to fit into a purse, a schoolgirl's pocket and contains a tiny comb and a slender flat clothesbrush. The case comes in colorful plaids and checks and brush and comb in several colors.

The Foley Manufacturing Company is now manufacturing a pastry-frame on which to roll out your pie crusts. It will not slide or wrinkle and dough will not stick. A patented wooden and steel frame holds the cloth firmly. These pastry-frames will be on sale at most kitchenware departments of your stores.

Plan Your Bathroom

For detailed tips on planning a bathroom for your home that will have everything you have ever wanted, write us for a copy of "Planning the Bathroom." It's USDA publication HG-19. For your free copy, write Farm and Home Service, Kansas Farmer, Topeka, Kan.

News to You?

Sweaters are in the news these days and this year you'll find them made of orlon, the new synthetic fiber that keeps its shape, launders well, requires no blocking, is warm, but lightweight. You'll find them in a wide choice of colors, both dark and pastels.

Lyonnais potatoes are mighty good and easy to prepare. Leftover boiled potatoes may be used. Cook a little onion in fat without browning, add sliced potatoes, add salt and pepper and cook until the fat is absorbed and potatoes very lightly browned. For extra appeal, add a little chopped parsley just before serving.

We don't happen to know of any farm women who have been swept over by the food faddist, the folks who go for yogurt, blackstrap molasses and wheat germ. They're the same kind of folks who started the stories about the danger of using aluminum cooking utensils. It's true that yogurt, blackstrap molasses and yeast won't hurt you, but they're not miraculous and are an expensive way to get the same food values you may get from well-balanced

meals and familiar foods. We'd better stick with the scientists, rather than faddists.

When baking bread with milk, remember that it will brown a little faster than bread with water as the liquid. To prevent too dark a crust before the bread is baked thru, it may be necessary to cover the loaves with clean brown paper the last half of the baking time.

Do your homemade loaves of bread sometimes split or tear on the top or sides? This may be because you worked a little too much flour into the dough, making it stiff and not pliable, or because the dough was not gently handled in the shaping.

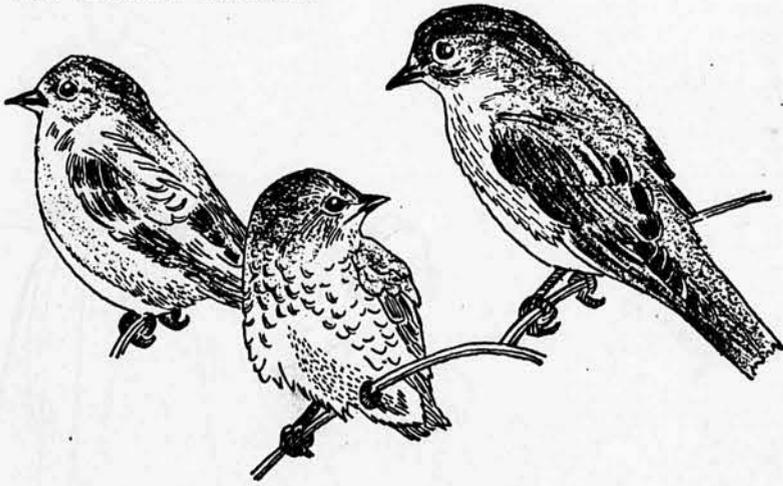
Do not cover the entire shelf of your oven or greater part of it with aluminum foil, as this will interfere with heat circulation. This also applies to the floor of the oven.

With the new rubber-base paint you may now do your own decorating. It works equally well on walls and wood-

KNOW YOUR BIRDS . . .

By L. B. CARSON

The Eastern Bluebird



THE MISSOURI STATE BIRD, the bluebird. From left, female, nestling and adult male.

*A murmured "tur-wy" on the breeze,
A flash of blue in yonder trees
Of nature's sounds, there's none so dear
For bluebirds say that spring is near.*

OF ALL OUR BIRDS, this soft-voiced favorite is one of the most eagerly awaited. When winter begins to yield to the warming sun and nature rouses from her long sleep, the soft warble of the bluebirds awakens a sense of well-being. He is well-named for his back, wings and tail are a brilliant blue; these combined with his reddish brown breast, make him distinctive.

This colorful member of the thrush family does not compete with his near relatives when it comes to singing, but his voice has a low, rich quality which is pleasing and restful. Neither does he seek solitude of the deep forest so dear to the hermit and wood thrush, but finds pleasure near your home. An old apple orchard, your garden, a field or pasture, any are acceptable if he can find suitable nesting quarters. Bluebirds use old knotholes, old woodpecker nests or other cavities.

Has Plenty of Friends

Bluebirds have no human enemies, for they are useful tenants around orchards, farms and gardens. Their rent is paid by consuming grasshoppers, cutworms, beetles and other insects which are a menace to crops. These items form a major portion of the bluebird's fare but when not available, he relies on wild grapes, sumac and other seeds to carry him thru the winter.

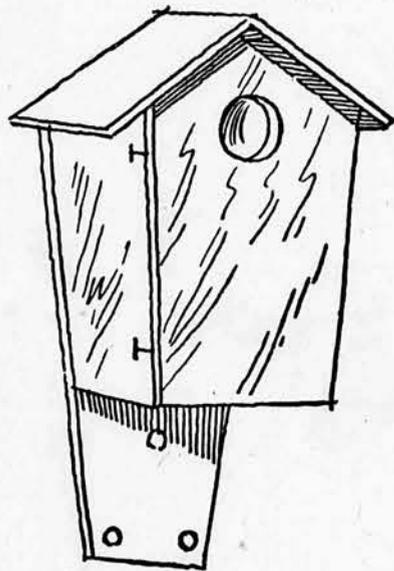
Natural enemies are many for cats, snakes, squirrels and bluejays invade the nests whenever possible. The greatest loss is caused by blizzards or cold weather which take a heavy toll on early migrants. There is also much competition for nesting quarters, not only from such native birds as house wrens, tree swallows and Bewick's wrens but also from the foreign element of English sparrows and starlings.

Bluebird houses with an opening not

more than 1½ inches across will be too small for starlings and if placed on a post not more than 4 feet above the ground in open areas, it will discourage the sparrows. Bluebirds require a feeding range of at least a quarter of a mile and houses should be spaced accordingly.

The eastern bluebird breeds from Newfoundland, Quebec and Manitoba to the Gulf of Mexico and winters regularly over the southern half of his range. Our own winter bluebirds move northward as soon as weather conditions permit, to be replaced later by summer residents which have wintered farther south.

To see him is to love him and you have missed a thrill if you have failed to see his flash of blue as he moves from post to post ahead of you as you walk down a country road. Our only wish is that he may live and prosper.



DIMENSIONS for bluebird house: floor 5 by 5 inches; depth of house, 8 inches; entrance above floor 6 inches; diameter of entrance 1½ inches; height above ground 5 to 10 feet.

SAVE SPACE AND WORK EFFICIENTLY

MANY homemakers wish they had more space in their kitchen cabinets. Without a remodeling job, one way is to use every inch of space more efficiently.

The 2 shelves where she should be using every bit of space are the bottom shelf of the wall cabinet and the top shelf of the base cabinet. These shelves are easiest to reach. But many times only about half of the space between the first and second shelf of the wall cabinet is being used.

By placing a half shelf (made out of plywood or orange crates with a thicker piece of wood on each side as supports) on top of the first shelf, room can be made for saucers, cups, bowls or spices.

Plates can be placed on the shelf underneath, and time and energy saved in unstacking smaller pieces to get to the plates.

Articles used most often in the kitchen should be placed on these 2 shelves. Inexpensive spice racks can be placed on doors, freeing shelf space for other uses.

Child's Game

To amuse small children, I used a paper egg carton, 1-dozen size, and painted a different number in each of the 12 sections. Then made a small beanbag to toss into the carton. Each child keeps his score. You make your own rules.—M. O.



High school sophomore wins 6 top cooking awards

Fifteen-Year-Old is Top Cook at Norton County Fair

Her dad looks mighty proud of Loretta Cranmer's latest prize ribbons! At age fifteen, Loretta is already an expert cook . . . last fall she took 3 first prizes and 3 seconds at the Norton County Fair!

Versatile Loretta has many hobbies and interests. She rides, swims, makes her own clothes, and helps on the family farm just outside Alma, Kansas. But it's in cooking that she really shines . . . and like so many older and more experienced prize-winning cooks, Loretta has a lot of praise for Fleischmann's

Active Dry Yeast. "It's the best ever," she says. "So convenient . . . and it sure is easy to use!"

5000 prize-winning cooks have been asked what yeast they like best—and 97% prefer Fleischmann's Active Dry Yeast. They like the way it stays fresh for months, keeps on the pantry shelf. They say it's much handier than old-style cake yeast. Now when you bake at home, it's convenient to use yeast. But use the best . . . look for the label and be sure you get Fleischmann's Active Dry Yeast.

CAPPER REHABILITATION CENTER MAY HELP YOUR CRIPPLED CHILD

If you have a crippled child who is not making satisfactory improvement, write the Capper Foundation. Our program at the Capper Rehabilitation Center, Topeka, Kansas, consists of intensive training in physical therapy and special education.

Delay Means Greater Loss

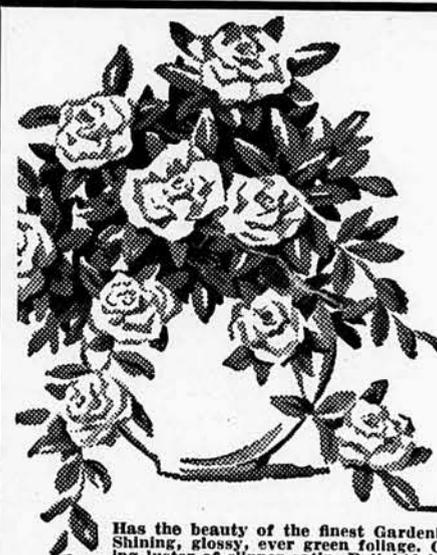
Children who had polio last season should receive physical therapy regularly during the next nine months in order to make maximum gains.

SPACE FOR A FEW MORE

To be eligible, a child must be considered capable of being rehabilitated to a marked degree within a year or two. Services at the Center are free to families with limited or no income. Board and room is available in near-by private homes at \$75.00 a month.

Address: J. M. PARKS, Secretary

The Capper Foundation for Crippled Children, Capper Building, Topeka, Kansas



Exciting New Indoor Plant! GIANT TRAILING VINE GARDENIA

- ★ Sent with Buds on or About to Bud
- ★ Grows as Long as 3 ft.

Special-by-Mail \$1 ea.

2 for \$1.50

Here's a truly lovely and attractive house plant (gardenia radicans) that is brand new and different! Has the beauty of the finest Gardenia plus the graceful, long stems of an ivy. Shining, glossy, ever green foliage. Giant white blooms that have the shimmering luster of slipper satin. Delightful fragrance. Can be transplanted outdoors in spring where they thrive in shady spots. We send big healthy plants in bud or about to bud already 6-8 inches high with loads of stems and leaves. Save Money! We pay all postage on prepaid orders. C.O.D.'s welcome but plus postal charges. If not delighted just return at once for your money back.

KRUSE NURSERIES, Dept. 96001, Bloomington, Ill.

Name.....
Address.....

KANSAS STATE UNIVERSITY LIBRARY

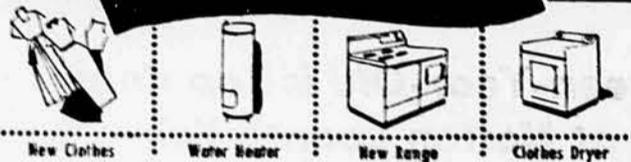


It Pays To Be
"ON THE ALERT"

Start Your Chicks **Right** with
DR. SALS'BURY'S Ren-O-Sal

For Quicker Weight Gains Coccidiosis Prevention

Gives You **EXTRA CASH** Toward
Things You've Longed For



Ren-O-Sal Provides Earlier Maturity

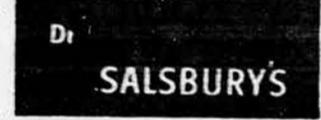
Even With Vitamin B₁₂ And Antibiotics In Feed
Chickens develop better...reach full maturity
quicker. Start laying up to two weeks earlier
...have added vitality and are in better
condition for high production all year.

Prevents Cecal Coccidiosis, Too!

Larger doses of Ren-O-Sal prevent
spread of cecal coccidiosis in chickens.
Reduces death, stunting and feed losses.
Be "on the alert!" Raise more chickens
of superior quality...with low-cost,
easy-to-use Ren-O-Sal, *regularly* in the
drinking water. Buy Ren-O-Sal when
you get your baby chicks or
starting mash.



When you need poultry medicines,
ask for



DR. SALS'BURY'S LABORATORIES

Charles City, Iowa

Speeds Recovery of **Rescued Birds!**
...Put **Vim** and **Vigor**
Into **Lazy Hens**

Avi-Tab

AVI-TAB stimulates appetites,
aids digestion, supplies daily
minimum requirement, or more, of
needed minerals. Mixes easily
in the mash. Be "on the alert" to
keep your birds alert and productive
...buy AVI-TAB, today!



The Story of the Capper Foundation

Help of crippled children made whole!
Of sad parents made happy! It tells
how you may help in this expanding
program of healing. Write for your
free copy of the story today.
**THE CAPPER FOUNDATION
FOR CRIPPLED CHILDREN**
Capper Building - Topeka, Kansas

Save Money On This Home Mixed Cough Syrup

Big Saving. No Cooking. So Easy.

You'll be surprised how quickly and easily
you can relieve coughs due to colds, when
you try this splendid recipe. It gives you
about four times as much cough medicine
for your money, and you'll find it truly won-
derful for real relief.

Make a syrup with 2 cups of granulated
sugar and one cup of water. No cooking
needed. (Or you can use corn syrup or liquid
honey, instead of sugar syrup.) Then put
2½ ounces of Pinex (obtained from any drug-
gist) in a pint bottle, and fill up with your
syrup. This makes a full pint of medicine
that will please you by its quick action. It
never spoils, and tastes fine—children love it.
This simple mixture takes right hold of a
cough. It loosens the phlegm, soothes the
irritated membranes, quickly eases soreness
and difficult breathing.

Pinex is a special compound of proven in-
gredients, in concentrated form, well-known
for its quick action in coughs and bronchial
irritations. Money refunded if it doesn't
please you in every way.

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

Easy to Make

4884—Perfect for shorter, fuller figures.
Half sizes 14½ to 24½. Size 16½ takes 3¾
yards 39-inch fabric.

9270—A step-in with removable collar.
Misses' sizes 12 to 20 and 30 to 42. Size 16
takes 4¼ yards 35-inch fabric; ⅝ yard con-
trast.



4821
SIZES
11-17

4884
SIZES
14½-24½

9270
SIZES
12-20
30-42

4821—Slimming for the Juniors. Use any
fabric. Junior sizes 11 to 17. Size 13 takes
4¼ yards 39-inch fabric.

9395—Topper over dresses or suits. Turn
back sleeves. Misses' sizes 10 to 20. Size 16
takes 2¾ yards 54-inch fabric.

4880—Smart maternity ensemble. Misses'
sizes 12 to 20. Size 16 takes 4½ yards 39-inch
fabric; ⅝ yard contrast.

9196—Slender dress with princess back,
long-paneled front. Women's sizes 34 to 48.
Size 36 takes 3¾ yards 39-inch fabric.



9395
SIZES
10-20

4880
SIZES
12-20

9196
SIZES
34-48

Pattern Numbers	Size	Name
		Route
		Town
		State

Patterns 30 cents each. Address Fashion Editor, Kansas Farmer, Topeka.

Easy to Grow...

Gladiolus
Twenty for **25¢**

America's favorite garden and
bouquet flower. A grand as-
sessment of best colors, includ-
ing 2 bulbs of the imported va-
riety, "New Europe," brilliant
orange-red blooms. Limit 1 or-
der per customer. Send now for
20 blooming size bulbs.

FREE Sensational Big Catalog
brings you the newer, finer
varieties of vegetables, fruits, flowers.
Many pictured in full natural color.
EARL MAY SEED COMPANY
207 Elm St. Shennandoah, Iowa

The Leafless Tree

There's pleasure in the leafless time of year
When frosty fields catch early morning sun,
No foliage curtain bars my valley-view
I note the bare-branched maples one by one.

My window holds the imminence of snow
Or chilling winter rain; the clouds pre-
sage,

But I am snug beside my kitchen range
With loaves of whole wheat bread at
baking stage.

—Mary Holman Grimes.

New Chance

Time is handing us a baby;
Little 1953.
We'll not hesitate to take him;
May it be
This little child shall lead us
To peace and unity.

—M. Jack Hetherington.

Watch That Fender

Her parking isn't what you call superb
She gets close to the spot
And walks to the curb.

—Mrs. John P. Duerksen.

For March Parties

Our 3 leaflets may be helpful in
planning your parties for March:

Games for March Parties—6
games and suggested menu.

Peggy's St. Patrick's Day Party
—playlet of 8 characters; 7 old
songs. Simple staging and very ef-
fective.

A Bit o' Irish Fun—good sug-
gestions for invitations, decora-
tions, refreshments and games.

Write to Farm Service Editor,
Kansas Farmer, Topeka, and en-
close 3c for each leaflet.

Pretty Sundress



7189

Pretty little sundress with lambs
peeking out of pockets and over the
eyelet ruffle. Easy to make, sweet as
a bonbon in pastel and white. Little
work. Pattern 7189 includes transfer
and cutting chart. Sizes 2, 4, 6 come in
pattern.

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

CITIES SERVICE

Farm Service Bulletin

Quality Petroleum Products

FEBRUARY, 1953

Accessories for the Farm

USDA TESTS PROVE THAT BACTERIA WILL DOUBLE WITH ALL POORLY DRIED EGGS!

Washing Removes Protective Film

The job of cleaning dirty eggs is only half done when they are washed. Drying the wet eggs is even more important. Recent tests show that spoilage from bacteria doubles when eggs are poorly dried or packed in wet fillers. The trouble comes when the packed eggs are transferred to the cooling room. As the water evaporates from the wet eggs and fillers, the humidity in the room rises and creates an ideal environment for the growth of spoilage bacteria. When dirty eggs are washed, a natural protective film is removed, and the eggs are therefore made more susceptible to entry of microorganisms.

Here are some recommendations for handling dirty eggs: (1) Wash only the dirty eggs; don't run clean eggs through the wash. (2) Thoroughly dry the washed eggs immediately and pack in clean, dry fillers. (3) Mark the cases of washed eggs for short storage and early consumption; washed eggs do not keep as well as unwashed eggs under any condition.

The most urgent recommendation of all is to make every effort to produce clean eggs by keeping all of the nests extra clean and gathering the eggs frequently.



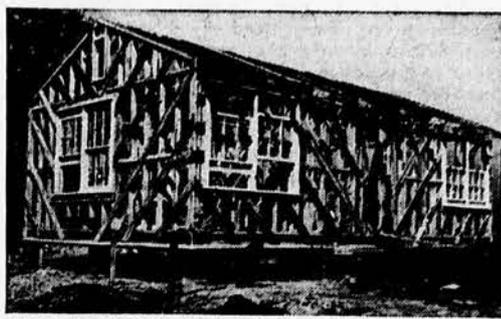
MRS. GEORGE PEARCE of Hunterdon County, New Jersey, packs eggs for market, in clean, dry fillers. Washed eggs are marked for short storage, early consumption.

SCIENCE FINDS A MOTOR OIL MUST CLEAN AS WELL AS LUBRICATE



Clean the engine, keep it clean and provide maximum lubrication all at the same time . . . that's the job of the modern motor oil! . . . and that's the job Cities Service C-800 Series Motor Oils do. They're Heavy Duty, High Detergent Motor Oils that have been "Farm-Tested" . . . are especially designed for rough farm service. They'll mean better engine performance, lower oil consumption and longer engine life for all your automotive equipment.

U. S. DEPARTMENT OF AGRICULTURE TESTING "EXPANSIBLE" FARMHOUSES!



"BUILD-AS-YOU-GO" FARMHOUSES PROVE TO BE COMFORTABLE AND VERY EFFICIENT

Three "expansible-type" two-room farmhouses designed by your U. S. Department of Agriculture architects and housing specialists, are now under construction and study at the Agricultural Research Center, Beltsville, Maryland.

ADD BEDROOMS AS NEEDED. Two-room farmhouses, designed to grow with the family, are being tested by USDA. They've proved comfortable and convenient, and bedrooms can be added as needed. Your county agent can get similar plans.

Department specialists have been making studies of expansible houses for several years. These new farmhouses have the advantage of providing comfortable accommodations (even in the basic unit) for the low-cash income farmer. They are especially worthwhile in areas where farmers are heavily obligated, financially, in getting operations under way on raw land.

ONE MAN HANDLES THIRTY COWS!

YOU CAN CUT TIME AND LABOR IN HALF

by keeping cows in well-designed, loose-housing barns instead of popular stall barns. (See story below.)



In an effort to cut milking time and labor, the Department of Agriculture has been carrying out extensive tests in cooperation with State Experiment Stations. They found that by keeping cows in well-designed, loose-housing barns rather than stall barns, they could cut time and labor in half. Their tests proved that one man can handle 30 cows with two milking machines and four elevated stalls!

Because they offer greater flexibility and require fewer operators, well-designed, loose-housing barns can save about 50 per cent of the time and labor spent with each cow in the stall barn. In this type of barn, the dairyman with fewer than 10 cows can do his most efficient job with two elevated stalls and one milking machine. The same man could handle up to 30 cows efficiently in a loose-housing barn, but he would need two milking machines and four elevated stalls grouped around his work area. If the four stalls are arranged in a line, the operator can milk more efficiently if he uses only three of them. To be effective, the four stalls must be grouped around the operator's work area.

THINGS YOU SHOULD LOOK FOR WHEN YOUR CAR FAILS TO START!

1. Defective starting motor.
 2. Frayed, worn or oil-soaked wiring causing a short circuit.
 3. "Gyp" battery cable with heavy insulation outside, little copper wire inside.
 4. AND MOST IMPORTANT, LOOK FOR DEAD BATTERY.
- To guard against dead battery, use the new Cities Service Tri-Fill Battery in all your equipment. This amazing battery needs water only three times a year in normal car use. Be sure. Get that extra margin of power and safety. GET A CITIES SERVICE TRI-FILL BATTERY TODAY...a really modern battery!





Carnation Homestead Daisy Madcap
 World's Record Butterfat Producer for One Year.* First cow of any breed or age to make over 1500 lbs. butterfat in a year (1511.8 lbs.—record completed Jan. 13, 1953). First cow of any breed or age to make two year-records each over 1400 lbs. butterfat, and three year-records averaging over 1350 lbs. of butterfat each.
 * Only records made under the American Type of strict supervision considered.

The World's Greatest Cows Were Raised As Calves on . . . Calf Manna

Cows Raised as Calves on Calf Manna Usually Make the Most of Their Inherited Characteristics

Carnation Milk Farms (like hundreds of other successful dairy farms) have, for many years, fed Calf Manna to every calf for the first 6 to 9 months of its life.

Carnation Farms have five good reasons (learned from actual experience) for doing this. These Farms believe that since they started feeding Calf Manna to every calf:

- ▶ 1. The calves grow into **BIGGER ANIMALS** at maturity because they are usually free from scours and other weakening upsets.
- ▶ 2. The calves develop into **DEEPER-BODIED ANIMALS** because Calf Manna stimulates rumen (or paunch) development.
- ▶ 3. The cows so developed are **BETTER AND MORE PROFITABLE PRODUCERS** because they are more efficient in converting roughage into milk.
- ▶ 4. The cows **LIVE LONGER** because essential vitamins, minerals, and proteins have been provided during the most critical growth period.
- ▶ 5. The cows **NOT ONLY PRODUCE BUT REPRODUCE** normally for long periods because they have a strong frame, plenty of room for vital organs, and sturdy bodies.

▶ The cow pictured at the top of this page is the only one in the world that has made 3 year-records averaging over 1350 pounds of butterfat each. The latest and largest of these was made as a 9-year old. She has borne 7 fine calves, and is due to freshen with her 8th calf in April. She demonstrates the benefits of good breeding, good feeding, and good management.

130 cows in the Carnation herd (all started as calves on Calf Manna) have made year-records of from 1000 to 1500 pounds of butterfat in each of one or more lactations. To accomplish such results one must have good breeding, good management, and good feeding from the very start.

There is Only One Way to Get Calf Manna Results—**FEED Calf Manna**

It costs only 10 cents a day to feed it to any calf. Why spend more to develop less efficient cows?



For Further Details Address Nearest Office

Albers Milling Company

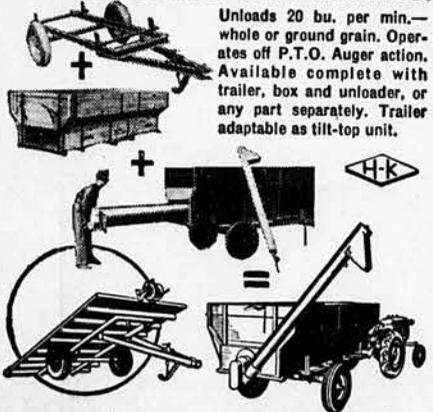
Dept. 298, 1060 Stuart Bldg. Seattle 1, Wash.

or

Dept. 298, 314 Fairfax Bldg. Kansas City 6, Mo.

UNITED STATES SAVINGS BONDS
 are still **THE BEST BUY**

HK ADD-A-UNIT REMOVABLE UNLOADER COMBINATION



Unloads 20 bu. per min.—whole or ground grain. Operates off P.T.O. Auger action. Available complete with trailer, box and unloader, or any part separately. Trailer adaptable as till-top unit.

HOTCHKISS STEEL PRODUCTS CO.
 Dept. G-E, Bradford, Ill.

Increase Pasture Yield Up to 50% With Hol-Dem's Electric Fence System!

ROTATE PASTURES DAILY BY OPENING ONE GATE!

KILLS WEEDS ON CONTACT!

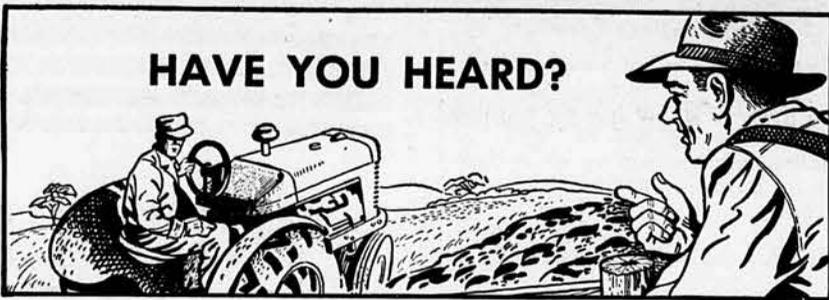
Model 45
 115 Volt A.C.
Only..\$27.75

Controlled grazing by use of temporary electric fencing lengthens grazing season, increases butterfat poundage, beef weight. Cows graze down pasture quickly and evenly, eat all grass, legumes and weeds instead of tramping down and destroying pasture while walking off fat. Rotating pastures allows grass to recover faster.

Weed Clipper Kills Weeds on Contact! No Shorts!

Hol-Dem Fencers hold stock even on the driest ground. Six models to choose from. 5-Year Guarantee. Write for FREE Folder "Pasture Yield."

Ask your local Dealer or write:
HOL-DEM FENCER CO.
 311 East Lincoln St., Wichita, Kansas
 Phone: 2-5334



HAVE YOU HEARD?

Notes on New Products and Folks Who Make Them

RITCHIE MFG. CO., Conrad, Ia., makes automatic waterers which are directly connected to farm pressure system. Waterers are operated by float valves, are thermostatically controlled; warm water can be supplied anytime. Saves on chores. Increases farm profits as there are low operating costs and animals produce better.

containers. Write 1650 East 38th St., Brooklyn 34, N. Y.

Superior Battery Protector used in new or middle-aged battery results in more power, better lights, longer life, says Superior Products, West End Station, P. O. Box 207, Colorado Springs, Colo. One treatment necessary.

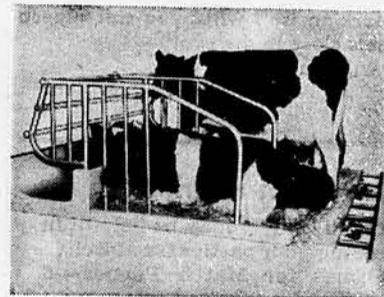
Multi-Purpose Auto V-PAK is handy for your car—clip it on Sunvisor to hold coins, papers, maps, sunglasses. Ends "coin-for-meter" problem. Made of stainless steel, is light, compact, saves time. Castle Service, 651 Judge Ave., Waukegan 2, Ill.

Leed Gun Sight snaps on and off gun barrel in a few moments. Use it to kill more fast flying and running game.

Clay Comfort Stall is a new-type stall for dairy cows—is wider, easier for cows to lie down. There's more



New sight gives correct and constant lead at any distance, within reasonable tolerances. Send gauge and type of gun to J. K. Newmeyer, Dept. BT, 506 Washington St., Allentown, Pa.



room to turn. Rails at front cause cow to move back so droppings seldom occur where cow lies down. Cows are kept clean, use much less bedding. Rails also keep cows from tossing feed up and out of the manger. Extra wide stall helps prevent udder injuries. No skinned knees or cut udders for cows, either says Clay Equipment Corp., Cedar Falls, Ia.

Foldmaster portable baby chair is good for any chair or as a car seat. Folds up, has rugged construction, chrome arms, adjustable tray. Foldmaster Co., Dept. 3-2, Scituate, Mass.

Denta-Matic Toothpaste dispenser means no lost caps, dried-out paste, broken or squeezed-in-the-middle tubes. Dispenser fits snugly on wall, works with any size tube. Push of button deposits paste on brush. Helps kiddies to brush their teeth. Mid-State Products Co., Dept. KF, 1940 E. 6th, Cleveland, O.

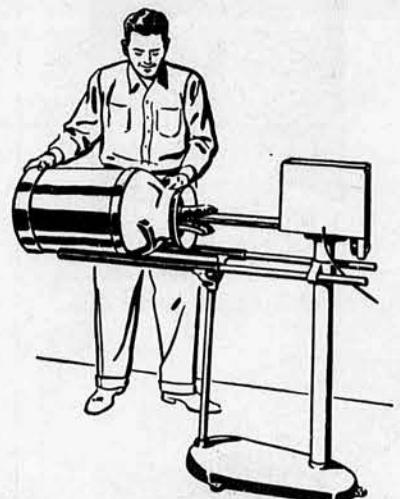
Lapboard Desk for the home comes in handy for many uses—eating, games, studying; bed tray, sewing, decorative. It's a large, colorful board, with maps, historical information, numbers, letters. Just lay it on your lap, and learn while relaxing! Plastic finish. Valley Center Distributors, Valley Center, Calif.

Golden Jubilee Model Ford Tractor is announced. New, live-action hydraulic system with 3-point hitch reacts

Skrub Master is a new mechanical milk-can scrubber. Just pour small amount of detergent solution into milk can, add water. Place can on self-supporting rack of Skrub Master, and flick switch on. Slide can back and



quickly and automatically for necessary depth corrections when plowing in Constant Draft Control. System is faster than system used on previous models; its lift capacity has been greatly increased. There's 3-point linkage for implements. Is larger, longer, heavier, much more powerful than previous Ford tractors. Has finger-tip selector lever for implement position control. Dearborn Motors Corp., Birmingham, Mich.



forth a few times and neck, sides, bottom are scrubbed clean in quick time! The brush construction scrubs entire interior of milk can. Nelson-Dykes Co., Republic Bank Bldg., P. O. Box 1185, Dallas 1, Tex.

Emilie Weill's Shoe Bag is durable, heavy plastic container for back of door or on wall. Kiddies Bag has pictures of Mother Goose characters—helps children to put away shoes, socks. Eight

Mobile Mfg. Co., Stafford, has a Mobile Spring Tooth Harrow that covers 15 feet with 31 teeth; has optional hydraulic or lever controls; 3-inch tubular steel thruout; no corner ball-ups; covers ground completely with no ridges; is effective erosion controller, at same time prepares a wonderful seedbed for planting.

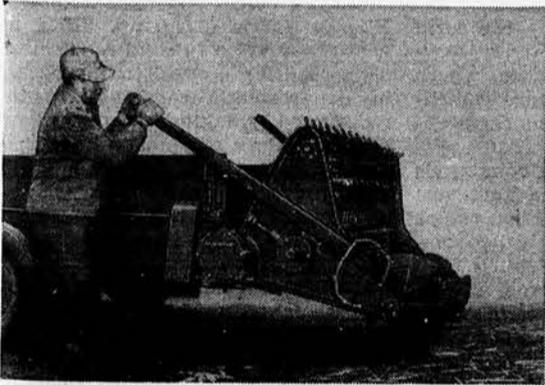
Introducing Farmhand's great NEW team...

4-TON "POWER-BOX" and STANDARD LOADER



FARMHAND 4-TON "POWER-BOX"—This PTO-operated unit is *four* major machines in one—SPREADER, FORAGE UNIT, MIXER-FEEDER and BULK HAULER. Slashes time and manpower costs on dozens of farm jobs. With Spreader attachment, four-ton payloads are spread with controlled concentration over 7 to 9 ft. swaths. Unit is narrow enough to be driven through the barn... low enough to clear the litter carrier or gutter cleaner discharge.

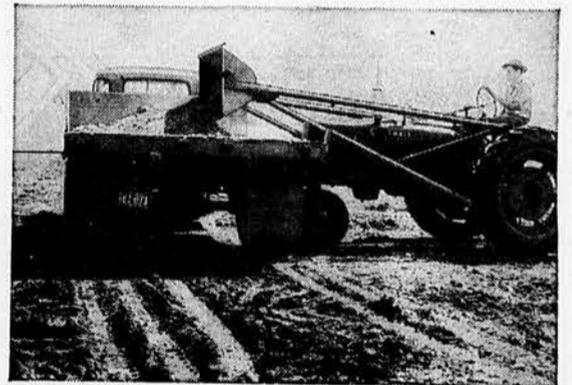
FARMHAND STANDARD LOADER—Built for *fast* operation around low sheds and barns, this rugged new loader has powerful 2,000 lb. lift and 3,000 lb. breakaway... makes quick, easy work of *all* your lifting and loading jobs. Low, compact frame goes anywhere your tractor can go. Heavy-duty construction permits fast wheeling and turning with big loads! With all its strength and durability, it costs no more—and in most cases much less—than other loaders.



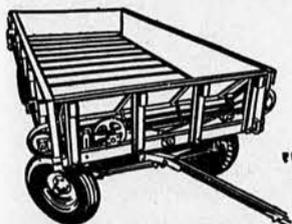
CHANGE JOBS QUICKLY—Spreader attachment is quickly and easily removed. Your "Power-Box" stays busy all year around—saves time and labor on a hundred different hauling and unloading jobs. One "Power-Box" replaces *four* expensive single-purpose machines, reducing your machinery investment by many dollars.



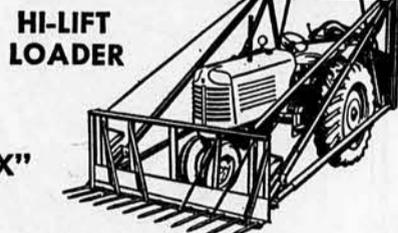
FORAGE HANDLING—With high, flared sides attached, the "Power-Box" is a rugged 285 bu. Forage Unit. Completely automatic unloading from PTO enables one man to handle any harvest from field to finish. Full roller-chain conveyor and worm-gear drive insure smooth, *dependable* unloading into trench silo or blower.



FULL-REACH LIFT—The Standard's 12 ft. *full-reach* lift lets you load any vehicle, even high-sided trucks, from *one side* with no fear of damage to equipment. Bucket is as far forward at 8 ft. height as when it rests on the ground. Note how the Standard Loader places its load in the exact center of this wide-bed truck.



6-TON
"POWER-BOX"



HI-LIFT
LOADER

FREE Illustrated Booklets!

4-Ton "Power-Box" Standard Loader

Write: The FARMHAND COMPANY, Dept. 142
Hopkins, Minnesota

Name _____

Address _____

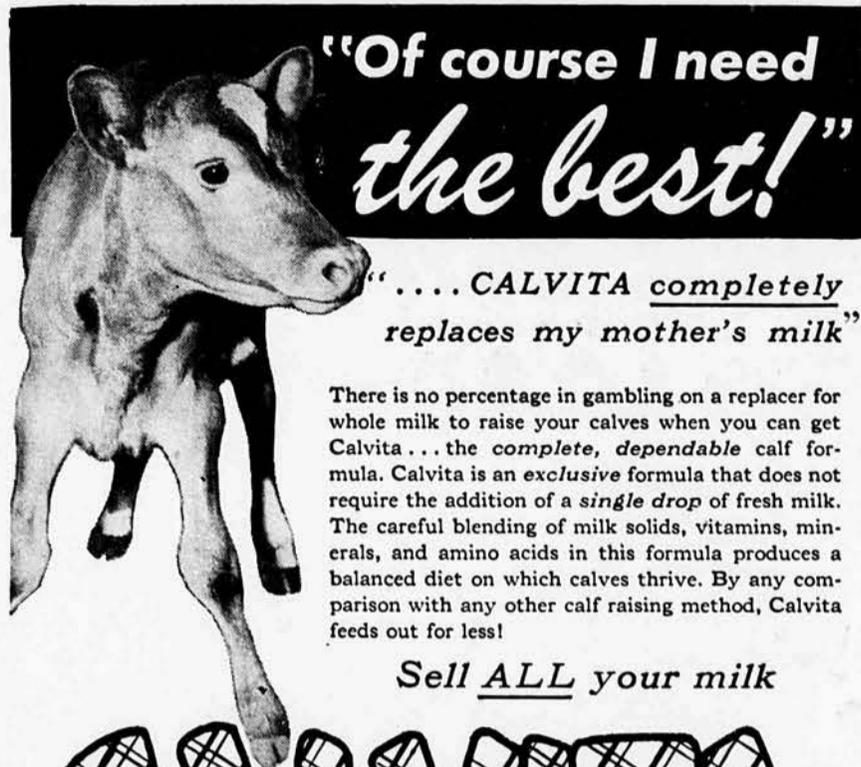
Town _____ State _____

A Division of Superior Separator Company



Farmhand

FIRST IN FARM MATERIALS-HANDLING



"Of course I need
the best!"

"... CALVITA completely
replaces my mother's milk"

There is no percentage in gambling on a replacer for whole milk to raise your calves when you can get Calvita... the *complete, dependable* calf formula. Calvita is an *exclusive* formula that does not require the addition of a *single drop* of fresh milk. The careful blending of milk solids, vitamins, minerals, and amino acids in this formula produces a balanced diet on which calves thrive. By any comparison with any other calf raising method, Calvita feeds out for less!

Sell ALL your milk

CALVITA

CALF FORMULA

The standard of quality in
cow's milk replacers

FORTIFIED WITH AUREOMYCIN
TO COMBAT SCOURS AND COLDS

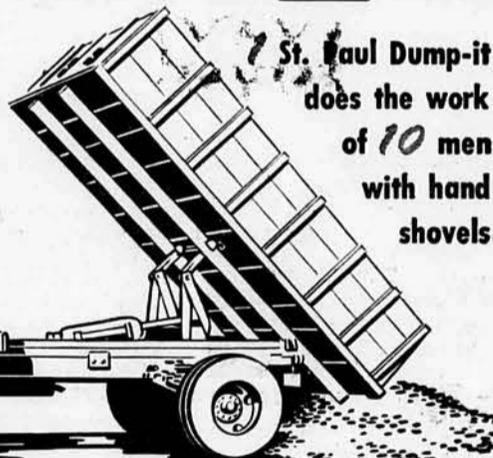
Your dealer has it!

**NATIONAL VITAMIN
PRODUCTS CO.**
MINNEAPOLIS, MINNESOTA



GET MORE WORK DONE WITH LESS HELP

Mechanize
**TRUCK UNLOADING
with St. Paul
DUMP-IT-HOISTS!**



St. Paul Dump-it
does the work
of 10 men
with hand
shovels

Speed unloading of crops, feed, fertilizer and other farm materials, with new "bonus capacity" St. Paul Dump-it Hoists. Famous for quality for over 40 years, St. Paul now offers the most improved line of farm body hoists in the industry. New Uni-Flex subframe provides greater strength, less weight. New Equi-Lift strut arms absorb strains of uneven loading, prevent binding and buckling. In addition, 1953 models feature convenient *finger-tip* dash control, new simplified hydraulic system, and a host of other improvements that mean *increased* payload capacity, *better* performance per dollar. Get the complete story from your truck dealer or St. Paul distributor or write today for **FREE ILLUSTRATED FOLDER.**

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41ST
YEAR

St. Paul HYDRAULIC HOIST
Customer Service Dept.
36136 Main St., Wayne, Mich.

St. Paul
DUMP-IT-HOISTS

Oldest in reputation... *Newest* in cost-saving features!

**A SIZE FOR EVERY CHASSIS
... EVERY BODY LENGTH**

Hoist Model	Cab-to-Axle	Over-Hang	Body Length	Pay'l'd Tons
D 16 F	60"	18"	9'	6½
	60"	30"	10'	7½
HA 16 F	72"	30"	11'	7
	84"	54"	14'	7
H 16 F & H 16 FW	84"	30"	12'	8
	84"	42"	13'	9
	84"	54"	14'	10
H 18 F	84"	54"	14'	12
	102"	48"	15'	9
H 20 F	102"	36"	14'	9
	102"	48"	15'	10
	120"	54"	17'	9
L 20 F	120"	42"	16'	11
	84" C/T	36"	13'	14
	96" C/T	48"	15'	14
	102" C/T	54"	16'	14
	120" C/T	60"	18'	12

Here's an Ideal Farmstead Layout

(Continued from Page 4)

treating alleyway is located in a central area off the farm court.

At the farmstead planning schools a 3-bedroom farm home designed by Mr. Everson is being featured as ideal for the average farm family.

This home has a recessed front entrance. From the entrance hall you can go directly to living room, into utility room or down the hall to bedrooms and bath. Furnace room also opens into entrance hall.

Because most farm women spend more time in the kitchen than any other room the U-type kitchen is at the front of the house. From it the housewife has full view of the farm court and all farm buildings. By not having any

utility room for a wash-up and to hang up heavy work clothing before entering any other part of the house. Family traffic to and from kitchen and front door routed thru the utility room will keep the muss out of other rooms, and will provide less wear on carpet or finished floor surfaces.

A large storage closet in the hallway leading to bedrooms and bath is an important item. Bedrooms are all near the bathroom and properly grouped away from the living area.

Extension specialists who designed this farmstead and farm home do not claim they will fit every farm. Each farm has its individual problems, but by taking these basic ideas and layouts and modifying them to meet your needs, perhaps you can have a farmstead and farm home that will be modern working tools in this job of balanced farm living.

Is It True?

Is it true a soybean really isn't a bean?

This new "wonder crop" is called a bean altho it contains about 40 per cent protein, twice as much as ordinary beans. And the soybean contains about 20 per cent oil, while the ordinary bean has practically none. The soybean is not a true bean, but no one has yet found a better name for it.

**New 4-H Agent
In Sedgwick County**

New associate county 4-H Club agent in Sedgwick county, effective March 1, is Evelyn Haberman, Kansas State College graduate and outstanding former 4-H member in Barton county.

Miss Haberman trained for her new position in Shawnee county, also was a junior home demonstration agent in Harper county last summer. In 1949 she spent a summer in the Netherlands as an IFYE delegate. You'll remember her letters in *Kansas Farmer*, 1949 issues. At recent Farm and Home Week at Kansas State College she was named one of 4 winners of \$200 scholarships given by the Kansas Home Demonstration Council for women planning to enter Extension work.

outside door leading from the kitchen the full wall space can be utilized for storage. An eating area adjoining the kitchen but separate from dining area gives your family a chance to be "at ease" and cuts down on use of "company" facilities.

Putting a utility room between kitchen and front door offers several advantages. Men of the house, coming in from farm court, can first enter

**New Massey-Harris Company Test
Track Is Equipment Proving Ground**

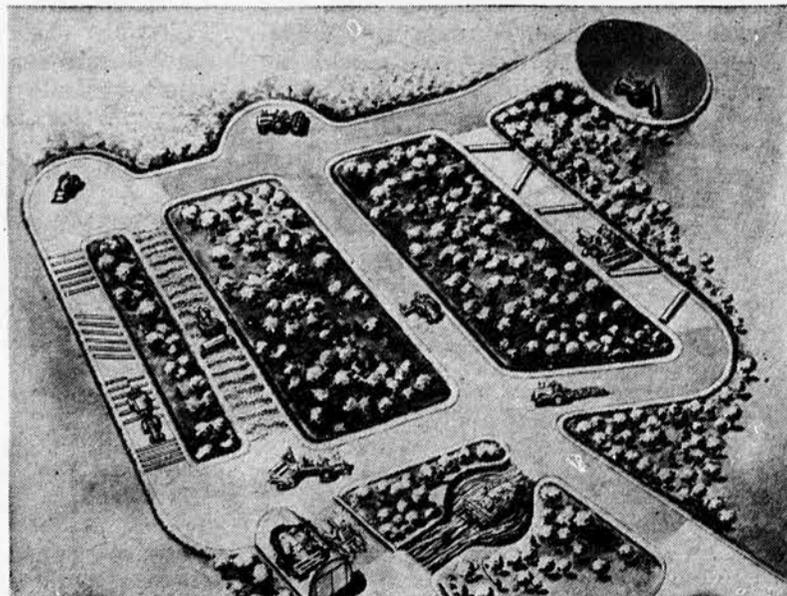
TORTURE ROW! That's the term applied to the test track of Massey-Harris Company, Racine, Wisc., where farm equipment absorbs more punishment in hours than ordinary farm operation could give it in months.

The track is part of the company's 640-acre experimental farm. These are some of the rugged tests for equipment—bouncing over a rock-ribbed cobblestone road at top speed; driving thru 3 feet of water; seeing how fast a short turn can be made. Behind these grueling tests is the big goal—to maintain quality farm equipment by thoroly checking engineering design and structure of parts under actual operating conditions.

This test track is first of its kind in the farm equipment industry, says the

Massey-Harris Company. "If a part doesn't stand up to rigid requirements demanded, it goes back to the engineering department's drawing boards to be redesigned. All kinds of conditions—both weather and soil—are experimented with, in a greatly magnified version. As an added safeguard for quality, machinery and implements are put to work on the farm under normal field conditions, and are tested with the world's most scientific electronic instruments. By using wires connected to a recording instrument, stresses and strains are recorded for study.

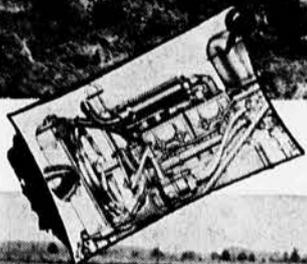
Massey-Harris Company says "The upshot of the whole testing program is development of track-tested, field-proved equipment for more efficient farming."



MASSEY-HARRIS TEST TRACK is an exacting proving-grounds for farm implements, for better quality products and more efficient farming.



Plowing costs go down, efficiency goes up—when you team the MM ZAE Tractor and 2 or 3 bottom Hi-Klearance Plows. (INSET) The Z engine, simple in design, powerful in output.

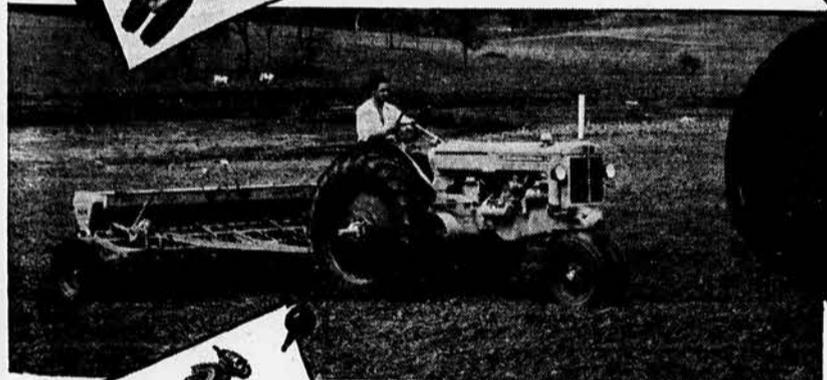
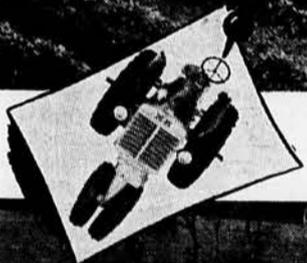


YOU name the job...

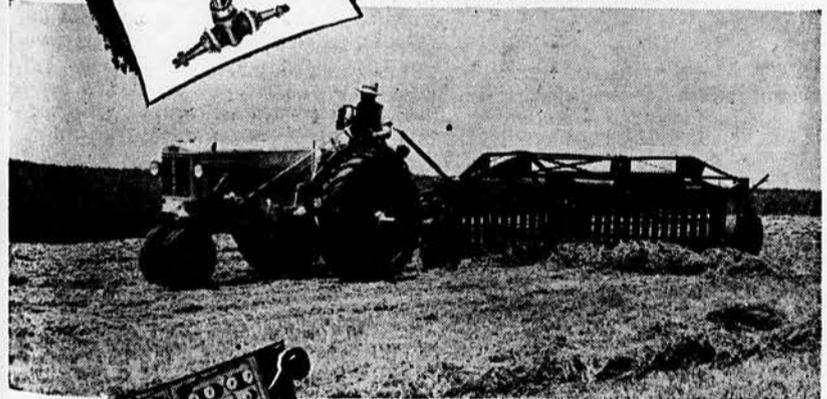
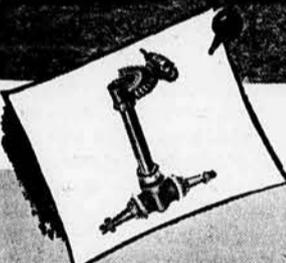
SEE YOUR MM DEALER FOR NEW LOW PRICE!



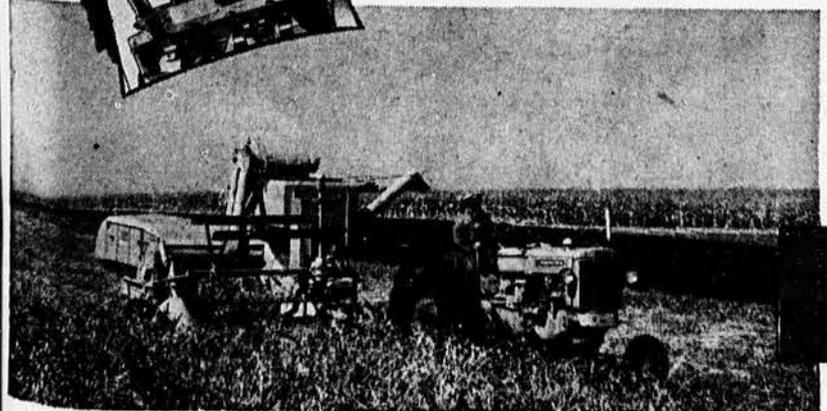
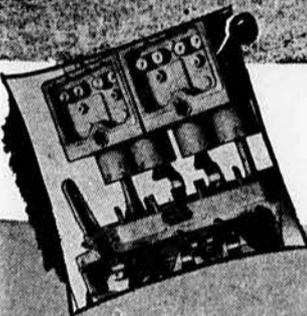
Economy of the Z pays big dividends when cultivating with front mounted Quick-On—Quick-Off Cultivator and rear-mounted spring tooth cultivator. (INSET—Note exclusive Visionlining of the MM Z.)



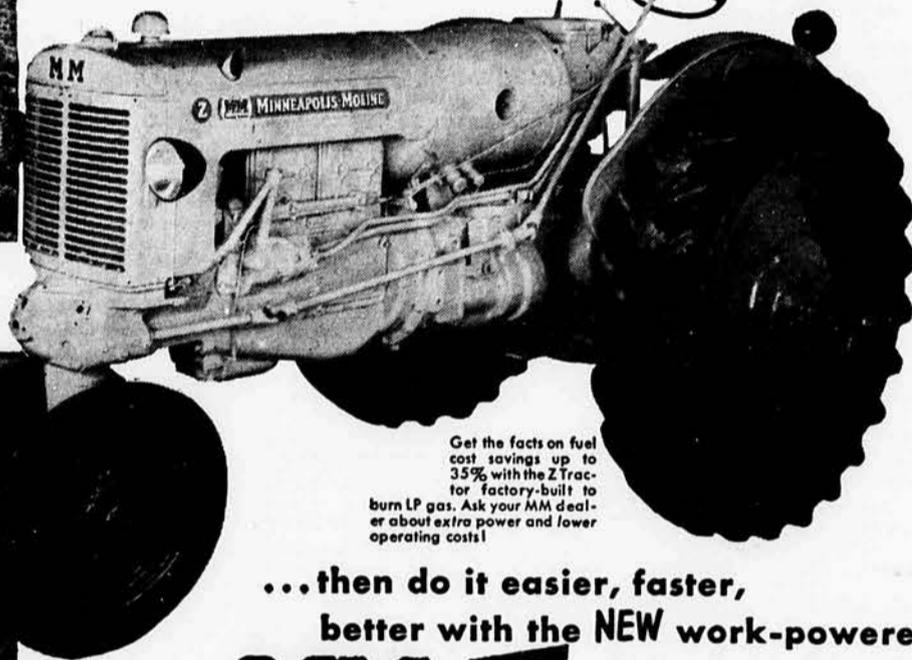
Many comfort features of the Z make every job easier—like drawing the all-steel Moline-Monitor grain drill. (INSET) Automotive steering mechanism gives real handling ease.



Haying is easier, faster, with the Z tractor and gentle, efficient MM Side-Delivery Rake. (INSET) Side-of-engine opening and cylinders cast in pairs offer easiest maintenance.



Harvest grain, seeds and beans at lowest cost with the Z Tractor and MM Harvester 69.



Get the facts on fuel cost savings up to 35% with the Z tractor factory-built to burn LP gas. Ask your MM dealer about extra power and lower operating costs!

...then do it easier, faster, better with the NEW work-powered

MM Z TRACTOR

What do you want in the next tractor you buy? A reserve of POWER? Work-cutting PERFORMANCE? Sure-profit ECONOMY? Year-after-year DEPENDABILITY? Then you want *exactly* what thousands of modern farmer-businessmen get from the 2-3 plow MM Model Z Tractor.

Get the PROFIT FACTS from your MM Dealer

Ask your MM Dealer to show you how the Z gives you MORE POWER with 206 cubic inch piston displacement, high-turbulence combustion chambers... EASIER MAINTENANCE with the engine that has 140 fewer parts than most conventional 4-cylinder, valve-in-head engines, cylinders cast in pairs separate from the crankcase, full-pressure lubrication, extra-heavy, three-bearing crankshaft... EASIER HANDLING with five forward speeds plus reverse, "new car" steering, hand-operated clutch, Flote-Ride seat, expanding shoe type brakes, Uni-Matic Power that gives you finger-tip hydraulic control of mounted and pull-behind implements, versatile live power take-off, Quick-On—Quick-Off and Attacher Tools, MM Visionlined design. Ask your dealer about the many advantages of improved fuel economy, increased engine efficiency that are yours with the Z Tractor completely factory-equipped to burn LP gas.

You're TIME AHEAD... MONEY AHEAD!

Buy the Z Tractor, tailored for your farm, your fields. Choose from four types... the single front wheel for narrow row crops; the standard tread style; row crop tread style with front wheels together and adjustable rear tread, or the versatile "Z" with adjustable front and rear tread.

Now, name the jobs your next tractor must do. Then, ask your MM Dealer for a demonstration. See for yourself how you can handle every job easier, faster, better with the work-powered MM Z Tractor.

Quality Control IN MM FACTORIES ASSURES DEPENDABLE PERFORMANCE IN THE FIELD



MINNEAPOLIS-MOLINE

GOLDEN ANNIVERSARY Jayhawk Money Makers Money Savers



Best Time, Labor, Cost Saver You Can Buy

Now available with or without hydraulic scoop control and one-man hydraulic grapple fork attachments. Other tools of year 'round usefulness include Push-off Stacker, 6 or 7-foot, 3-way Bulldozer, Long Tined Manure Fork, 20-foot Hay Crane, 9-foot Sweep Rake and 6-foot Snow Scoop.

With All These Design and Construction Advantages

Single cylinder for equalized lift...Automatic Load Leveler...48" Scoop with removable dirt plate...Simple mountings all popular tractors.

FAMOUS AUTOMATIC Jayhawk STACKER... WAGON LOADER... SWEEP Easiest, Fastest, Cheapest Way to Put Up Hay

Costs half as much to put up hay the Jayhawk way. Costs far less for the Jayhawk, too. One man operation. One bolt hook up to tractor, truck or jeep. Your choice of HYDRAULIC or MECHANICAL operation.



Hydraulic Conversion Units Available For Jayhawks After 1938. Write!

See Your Jayhawk Dealer. Write Direct for FREE circulars and low prices... today!

THE WYATT MFG. CO., INC. 1903 GOLDEN ANNIVERSARY 1031 5th St. Salina, Kansas 1953

OVER 100,000 FARMERS HAVE PURCHASED THIS FAMOUS FENCER!



International FAMOUS 106 - WEED CHOPPER ELECTRIC FENCER

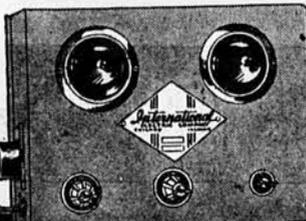
The Famous 106 Weed Chopper Fencer is the most popular fencer of all! Thousands in use! Farmers know that weeds and grass won't short it out because its design clips them off at the wire. Farmers can rely on the 106 Weed Chopper Fencer because it controls many miles of rangeland fencing as easily as a ten acre pasture—and wet or dry, it holds any stock, regardless of kind or size!

LIFE TIME SERVICE WARRANTY

The users of International Electric Fencers are full protected against defective materials and workmanship. Purchasers are also given a life time service policy.

CONTROLS:

- SHEEP
- HOGS
- CATTLE
- COWS
- GOATS
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- MULES



Free! Sirs: Without obligation to me—send me FREE Folder on "How To Build A Good Electric Fence."

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 1105 W. Chicago Ave., Chicago 22, Ill.

SEND NOW TO...

Farm and Home Week at Manhattan Brought Reports on Rural Progress

SEVERAL THOUSAND Kansas farmers dropped their homework recently to attend the 85th Farm and Home Week program at Kansas State College, Manhattan. While there they heard reports from top experts in all the fields of agriculture. Here are highlights of various divisional sessions.

Dairy Program

Members of Inter-breed Dairy Council agreed to work for erection of a \$750,000 cattle-judging ring and arena at Kansas State Fair. This was listed by Virgil Miller, fair secretary, as the main improvement needed at the fair.

Dairymen were told that mass shifts in U. S. populations have brought new eating habits and new marketing and distribution problems. To meet the challenge the dairy industry needs a year-around advertising program.

It was pointed out while dairy cattle numbers have been steadily decreasing since 1940, number of purebred dairy cattle has increased 36 per cent.

Here are dairy industry needs: Lower unit production costs to compete against other food products; changes in breeding and feeding programs to convert more cheap feeds into milk products; a new quick test for nonfat solids in milk; research on new uses for milk; legislation for true labeling and advertising of milk product substitutes; need to increase total digestible nutrients per acre in roughages. In other words, better pastures, hays and silages.

Agricultural Engineering

Emphasis this year was on irrigation. Farmers attending the sessions learned there are 6 main points to know about irrigation. They are: An adequate, dependable water supply. Prepare land properly ahead of irrigation. Use right crops and best cultural practices. Irrigate efficiently and on time. Prevent soil erosion. Maintain soil fertility.

There are more than 200 sprinkler-type irrigation systems now in use on Kansas farms.

Poultry

Hatchability of eggs can be more than doubled with addition of a small amount of vitamin B₁₂. Experimental tests on feeding antibiotics to poultry have been conflicting as to results. Overfeeding grain and underfeeding mash to the laying flock is poor flock economy because it robs the hen of vitally needed vitamins, minerals and

other nutrients needed for top production.

Buying chicks by the price tag is the poorest way to select stock. Good chicks can be expected only from hatcherymen who have an energetic program of selection and improvement on their own parent flocks.

With the complicated formula of modern feeds, use of scoop shovels and similar crude means of mixing feed are obsolete. Proper preparation of poultry feed is so important the day of mixing poultry feed on the farm for the most part is a thing of the past.

Livestock

While urea is becoming more popular in feeding, some precautions need to be followed in its use. Overuse could cause toxic condition. Urea is more expensive as a source of protein than cottonseed meal. Molasses should be used only to cut down dust and stimulate appetite. Not more than 5 per cent molasses should be used in any feed mixture. Molasses will cause animals to eat more poor roughages, but at the same time interferes with its indigestion. Yeast is not needed by ruminants.

Feeders were told they often worry too much about "gains per day" and not enough about what is going on inside the animal to condition it for final fattening period. In other words, during the growing period of the animal conditioning is more important than weight gains.

Purdue Supplement A will not bring cheaper cattle gains when fed with standard Kansas rations than can be obtained by using cottonseed cake or meal.

In feeding poor roughages to fattening lambs, Kansas experiments show one-half alfalfa hay fed with one-half sorghum stover brings lowest costs per 100-pound gain.

Trying to get by with low-grade roughage for ewe flock is poor business. It takes a good roughage to keep ewe flock in good condition. A common fault is to underfeed young ewes.

Kansas Hybrids Association

A test to study 2 factors in use of hybrid corn seed is being planned this year. One is to determine relative yielding ability of Kansas 1639 when grown from seed produced by certified seed growers of the state. This study is to learn whether a hybrid is fairly represented in corn performance tests by planting seed from one grower. A second study would determine whether

(Continued on Page 41)

OUTSTANDING CERTIFIED SEED PRODUCERS



HONORED AS PREMIER SEED GROWERS of the state at banquet on Kansas State college campus Thursday evening, February 5, 1953, were Walker Brothers, of McPherson, James, left, and Winston. Their recognition, along with Bertram Garade, of Olivet, was for outstanding success in certified seed production. Walker Brothers are shown here using vacuum cleaner to remove dust and seed from hard-to-get corners of their seed-cleaning mill.

there is a difference in emergence and yield when seed of flat and round grades from the same lot of certified seed is planted. It is generally believed flat or round seed will produce comparable corn stands but there is no data to prove it.

Even in 1951 and 1952 (both very poor corn years) average increases in yield were sufficient to return some \$4 or \$5 for each \$1 invested in nitrogen fertilizer.

Agricultural Economics

Some of the millions of dollars spent to protect cattle from winter temperatures might better have been spent to protect them from summer heat. Cattle often are more sensitive to summer heat than to winter cold. This is especially true of dairy cattle.

Tax assessments in various Kansas counties range from 14 per cent to 51 per cent of sale values. Some kind of equalization of property value is essential but may take some new legislation to achieve.

Agronomy

More attention is being given to year-around pasturing. Moderate or light grazing in summer becomes more important if cattle are to be wintered on grass to insure a grass reserve for winter months. Lightly or moderately grazed grass holds more snow in winter and pasture erodes less.

In Southwest Kansas marginal lands reseeded to grass will yield higher net returns per acre than if seeded to grain or row crops. We need more pastures in Western Kansas and they should be reseeded to taller growing grasses than Buffalo for best returns.

Irrigated pastures must be properly seeded, irrigated, fertilized and managed for profitable returns. Dairy cattle on irrigated pastures will return \$200 to \$250 an acre while irrigated pastures also will produce beef at rate of 1,000 to 1,100 pounds an acre.

Here are 4 points to follow to decrease bloat. Don't graze too early (alfalfa 4 or 5 inches high is dangerous). Keep dry hay before animals at all times. Leave cattle on pasture day and night, wet or dry, once turned on. Have water and salt convenient.

Lack of nitrogen is still the bottleneck in crop and grass production. Use of nitrogen fertilizers over a period of years will pump soil dry of other elements. Means farmers should begin to

use mixed fertilizers about third year after starting use of nitrogen, or as soon as need is shown by soil tests.

These Men Head Dairy Associations

Officers for 1953 of 6 dairy breed organizations, selected during Farm and Home Week, Manhattan, are:

Kansas Ayrshire Club—M. B. Dusenbury, Corbin, president; Reeves R. Lewis, Furley, vice-president; Dwight E. Hull, El Dorado, secretary.

Kansas Jersey Cattle Club—A. L. Miller, Partridge, president; John Weir, Gueda Springs, vice-president; Jim Berry, Ottawa, secretary.

Kansas Guernsey Breeders' Association—Roy Heher, Oswego, president; Willard Lister, Ottawa, vice-president; C. J. Graber, Newton, secretary-treasurer.

Kansas Brown Swiss Cattle Breeders' Association—Paul Green, Topeka, president; Jim Hess, LaHarpe, vice-president; Curtis Unger, Burden, secretary-treasurer.

Kansas Milking Shorthorn Society—Ezra Wolf, Quinter, president; C. O. Heidebrecht, Inman, secretary-treasurer.

Holstein-Friesian Association of Kansas—Harold Scanlan, Abilene, president; Jack Carlin, Smolan, vice-president; T. Hobart McVay, Nickerson, secretary-treasurer; and Dale Hughes, Waldron, director.

Honor Goes To Farm Folks

Nine Kansas farm families and 2 individual farmers were honored at Farm and Home Week, Manhattan, for 20-year membership in farm management associations.

The 2 individuals were Gerhard Dyck, Whitewater, and Eldo Steele, Halstead. Nine families honored were: Mr. and Mrs. P. C. Andres and Mr. and Mrs. C. A. Schirer, Newton; Mr. and Mrs. Sam Regier, Moundridge; Mr. and Mrs. Jonas Voran, Hesston; Mr. and Mrs. C. L. Hendershot, Mr. and Mrs. Walter Peirce and Mr. and Mrs. H. A. Pennington, all of Hutchinson; Mr. and Mrs. N. B. Martin, Mount Hope; and Mr. and Mrs. Fred Paulsen, Zenith.

HONORED AS PREMIER SEED GROWER



BERTRAM GARARD, of Olivet, in Osage county, was one of 3 men honored as premier seed growers of the state this year. Recognition was given at annual Kansas Crop Improvement association banquet during Farm and Home Week on the Kansas State College campus, in Manhattan, Thursday evening, February 5, 1953. The other 2 men named were Walker Brothers, of McPherson. Mr. Garard here is grading hybrid seed corn on machine that separates light from heavy grains on his farm.

DO HOGS NEED WORMING?

WHY

Worms are present in large numbers wherever hogs are raised. They cause heavy losses, often making it impossible to raise pigs at a profit. Worms retard growth, waste feed, and often cause death. A large part of mortality in young pigs is due to worm infestation.

DO HOGS NEED WORMING?

WHEN

1. Worm brood sows early in pregnancy . . . not later than eight to ten weeks before farrowing. 2. Worm pigs just after weaning. 3. Worm other swine twice a year (Fall and Spring) or as needed when symptoms occur. In addition, a good program of sanitation will keep hogs free of worms.

TO SAFELY WORM HOGS!

HOW

Simply mix Dr. LeGear's Hog Worm Powder with slop or feed . . . hogs like it and they worm themselves in one day. And there's no danger of poisoning. Yes, unlike other wormers, Dr. LeGear's Hog Worm Powder is not a poison, it's perfectly safe . . . Safe in feed . . . Safe in slop! It's the sure way of making more profits from your hogs for worming regularly helps hogs make faster gains and get to market earlier. Stop letting worms rob you of profits . . . Start worming your hogs with . . .

It's Safe DR. LEGEAR'S HOG WORM POWDER It's Sure

HERE ARE JUST A FEW OF THE MANY DR. LEGEAR DEALERS IN YOUR AREA

- KANSAS**
- ALMA** Al's Drug Store
 - ANNESS** Kansas Milling Co.
 - BELLE PLAINE** Farmers Elevator
 - BERRYTON** Powell Grocery
 - CANEY** Pearsall Elevator
 - CHANUTE** Chapman Feed Service
 - CHERRYVALE** Sourk's Drug
 - COUNCIL GROVE** Smith's Pharmacy
 - DENNIS** W. M. Starr
 - GARDEN PLAIN** Farmers Coop. Elev. Co.
 - IOLA** Allen Co. Feed & Produce Farmers Feed Store
 - KANSAS CITY** Mason's Ice & Coal Co.
 - KECHI** Kechl Elevator
 - KINGMAN** McKenna Grain Co.
 - LA CROSSE** Dyke's Drug Store Farmers Union Co-op Mercantile & Elevator Co.
 - LA CYGNE** Oberton Feed Store
 - LIBERAL** Light Krain & Mfg. Co., Inc.
 - LINCOLN** Lincoln Co. Farmers Co-op Assn.
 - MARYSVILLE** Triangle Drug Store
 - MORAN** Hutchison Store
 - MULVANE** Mulvane Co-op Union
 - MUNCIE** Edlund's Hdwe. & Feed
 - NEODESHA** Bates Pharmacy
 - NEW LANCASTER** Frank E. Smith
 - OLMITZ** Midwest Grain Co.
 - PARSONS** Stewart Pharmacy
 - PEABODY** Higgins Drug Store
 - SALINA** The Salina Seed Co.
 - TONGANOXIE** Dale Rawlings Feed Store
 - TOPEKA** Seabrook Feed & Seed Store Emery Shimer Feed & Seeds Al F. Williams Drug Corp.
 - TORONTO** J. E. Sowder Seed Co.
 - TYRO** Mason Bros. Store
 - WAYNE** Horkman Gr. & Supply Co.
 - WESTMORELAND** Knipp's Cash Hardware
 - WICHITA** Harms Feed & Seed Co. Pruitt Laboratories

STOP NUTRITIONAL DISEASES IN POULTRY

Overcome low egg production, run-down, unprofitable poultry . . . give your birds

DR. LEGEAR'S PLUS COMBINED WITH **POULTRY PRESCRIPTION**

It's guaranteed* to stop nutritional diseases and, at the same time, it gives your flock the tonic boost needed for healthy appetites and high egg production. See your Dr. LeGear dealer soon and start giving your flock Dr. LeGear's Plus combined with Poultry Prescription.

*Satisfaction guaranteed or your money back.

DR. L. D. LEGEAR MEDICINE CO. ST. LOUIS, MO.

KANSAS STATE UNIVERSITY LIBRARY

Rural Telephones Doubled in 7 Years



THIS SCENE HAS BEEN REPEATED many times in recent years, as telephone people worked to extend service to the state's farming areas. In just seven years, the number of Southwestern Bell rural telephones in Kansas has doubled. And we're continuing to push more lines out into rural areas every month. In 1953 we hope to be able to spend nearly \$2½ million on this type of construction alone. **SOUTHWESTERN BELL . . . A FORCE OF 6,800 KANSANS . . . PARTNERS IN KANSAS' PROGRESS.**

Flood Control Job Is a Big One

(Continued from Page 1)

mission's attention to the fact that 1945 studies of the Blue Valley watershed by engineers listed 75 percent of flood damages as occurring in head-water valleys.

Getting something done about damages in these localized areas is one of the main purposes of the various watershed associations springing up over Kansas.

Two small watershed treatment projects on creeks in the Delaware river basin will be presented to Congress this session by the U. S. Department of Agriculture. Cost will be above 1 million dollars over a 5-year period. Local residents of the watershed have approved these projects and will voluntarily share part of the cost. "Some of this cost," says Ray Wegner, Ozawkie, president of the Delaware Watershed Association, "will be worked out by several farmers in a neighborhood pooling their PMA payments to put in small structures of common benefit."

Have No Legal Standing

One real hurdle in solving problems on a subwatershed or watershed basis is that members of a watershed association now have no legal standing by which they can enter contracts, if the watershed crosses county lines.

This means groups like the present Delaware River Watershed Association, which is divided into 12 subwatershed districts, have no legal standing for agreements with local, state and federal government agencies, and can raise money only on a voluntary contribution or agreement basis. They need legislation that will allow them to match federal funds or to proceed on their own initiative.

In getting over this hurdle, farmers have found good friends in the State Chamber of Commerce, the Kansas Watersheds Association, and the state administration under Governor Edward Arn.

C. C. Kilker, Topeka, manager of the State Chamber of Commerce, says: "The State Chamber of Commerce has gone on record as endorsing the Pick-Sloan plan, but we realize the long-range benefits of any flood-control program should include saving the soil and its productive capacity. The state badly needs legislation that will allow watershed groups, no matter how large or small, to plan and carry out projects for their own benefit, and with power to tax within limits to pay or help pay for them."

Last June the State Chamber organ-

ized a steering committee on watershed legislation, picking men from its flood control committee, to work with representatives of the Kansas Watersheds Association. After much study and research this committee drew up a preliminary outline from which watershed legislation might be written.

It was decided, however, that people in all sections of the state should have a voice in shaping such important legislation. The steering committee then held hearings in each Congressional district, at which everyone was given a chance to criticize or suggest changes in the material to be used in writing a law.

After these meetings the outline was revised to meet the thinking of all interests in the state. A complete report of the proposed legislation was outlined to the State Board of Agriculture annual meeting by Chandler F. Jarvis, chairman of the State Chamber of Commerce Flood Control Council. His report follows:

Purpose—To provide enabling legislation permitting formation of local watershed districts, to plan and execute plans at the community level for control and use of water according to specific conditions and needs of the watershed area, and to co-operate with local, state and federal agencies as deemed advisable.

Formation of Watershed District:

(a) A watershed district would be initiated by a petition signed by 10 per cent of the owners of land in proposed district in each county affected.

(b) Petition would be filed with the county clerk in any county having land in proposed district, and such county clerk would certify petition to other county clerks of counties having land in proposed watershed district.

(c) Each county clerk must check the petition for technical compliance as to the 10 per cent requirement and forward findings to Division of Water Resources, State Board of Agriculture, which would serve as a state co-ordinating agency.

(d) The State Division of Water Resources checks the petition to determine conformance of proposed boundaries to natural watershed, and to make certain any such proposed watershed district does not conflict with other existing or proposed watershed districts. In other words, the function of the co-ordinating agency is to at least oversee formation of and activities of

(Continued on Page 43)

Cutting Weeds

is good farming

ROOF

is the Best Weed Cutter

It's a brand new Roof Weed Cutter—still the best! New self-propel unit eliminates slippage, makes control easier. Choice of 3 h.p. Clinton or 6 h.p. Wisconsin heavy-duty motor. Cuts clean within ¼" of fence rows, buildings. See your dealer or write—

ROOF Welding Works
Pontiac 6, Illinois

- Fingertip Control
- Lock-In Self-Propel
- Choice of 2 Motors
- Versatile Attachments

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GRANDMA By Charles Kuhn



a watershed district in order to be as certain as possible that necessary and desired work will be accomplished without undue damage or harm to those outside proposed watershed district.

(e) Following approval by the State Division of Water Resources an election would be held to determine whether proposed district desired to organize and each eligible voter residing within the district would be eligible to vote.

(f) Results of election would be certified to State Division of Water Resources, and if a majority of voters approve, State Division of Water Resources would inaugurate proceedings for incorporation of district with the Secretary of State.

Governing Body of District:

(a) District would be governed by a board of directors elected by electors within the district.

Appreciate Your Letter

Have taken *Kansas Farmer* since 1915, and my husband took it long before we were married.—*Mrs. Fred Stahl, Newton.*

(b) There would be a minimum of 3 directors and the maximum to be determined by the district but not to exceed 35, with further provision that total number of electors must be an odd number, elected for 3-year staggered terms.

(c) Directors must be chosen from qualified electors within the district.

Preparation and Execution of the Plan:

(a) In event the Division of Water Resources approves a proposed watershed district and a majority of voters have elected to organize and have elected directors, the board of directors shall cause to be prepared a general plan of work to be done in and by the district.

(b) As soon as general plan is completed, the board shall hold hearings in district on plan so prepared.

(c) Following hearings, plan would be submitted to the state Division of Water Resources for its approval; and if approved, plan would be publicized in district and an election held to determine whether people residing in the district wish to proceed further with plan.

(d) On specific projects within the scope of the general plan, the board of directors would publish or otherwise notify electors in district of such specific plans, together with cost estimates thereof and proposed method of financing. If at least 25 per cent of electors within district do not enter objections, board can proceed with project. If the number of objections exceed 25 per cent, board must hold an election to determine whether a majority of electors wish to proceed with plan.

General Powers and Duties of District:

(a) We will enumerate powers and duties of district rapidly, as they are generally same powers and duties conferred on municipal corporations, such as to sue and be sued, adopt a corporate seal, etc.

(b) To construct any system of drainage; to construct any system of control of water; to prevent runoff of water and erosion; to construct any ditch, dike, or levee, etc. In other words, dis-

trict would have practically unlimited powers to manage water as long as it did not harm or interfere with others outside district.

(c) To acquire property by gift, purchase or eminent domain.

(d) To levy and collect taxes, issue bonds, and incur indebtedness within limitations.

(e) To co-operate with other local, state and federal governmental agencies, and to enter into such co-operative agreements as board may determine desirable.

This provision makes it possible for a watershed district to co-operate with the State Highway Department, Health Department, Boards of County Commissioners, City Governments, Soil Conservation Service, Bureau of Reclamation, Corps of Engineers, and other agencies, even including other states both in planning and division of payment of costs on any project or projects within district.

(f) And finally the power to extend district or merge with adjoining watershed districts upon a vote of affected electors.

Financing of District:

(a) District may levy ad valorem taxes for organizational, engineering, legal, clerical, and administrative expenses, all within specified mileage limits.

(b) No-fund warrants could be issued for initial expenses, payable from ad valorem taxes.

This provision permits district to get organized and started and not have to wait until tax money is actually collected and distributed.

(c) Board of directors shall determine and propose method by which specific projects are to be financed. In so doing, board shall determine what percentage of costs of each specific project is to be borne by special benefit assessments, and what percentage is to be borne by general ad valorem taxes on district.

(d) Bonds may be issued to finance all or portions of specific projects. The amount of bonds outstanding at any one time would be limited by designated percentage of district's tangible assessed valuation.

(e) Special benefit assessments to finance all or portions or specific projects could be levied, payable over a numbers of years, but amount of such special assessments payable by an individual tract or parcel of land would be limited.

(f) Appraisals for special benefit assessments would be made by board of directors to assure local control; procedure for hearings on and appeals from assessments would be provided.

In other words, no one would be denied his day in court.

Who Drafted Proposal

The Watershed Legislation steering committee which held public hearings and drafted this proposed legislation consisted of Robert Schermerhorn, Junction City, chairman; Stanley Spencer, Arkansas City; J. O. Jones, hydraulic engineer, University of Kansas; William Avery, Wakefield, and Glenn Stockwell, Randolph.

The committee had technical advice from Robert Smrha, chief engineer, and W. H. Sunderland, senior engineer, Division of Water Resources; Kansas State Board of Agriculture; Fred Sykes and Lawrence W. Rittenoure, of the state Soil Conservation Service; Ray Carmon and Nick Kitzrie, Bureau of Government Research, University of Kansas; Dr. Wilfred Pine, professor of agricultural economics, and C. R. Jaccard, Extension economist, Kansas State College; Fred Gulick, from bill-drafting department in the Revisor of Statutes Office.

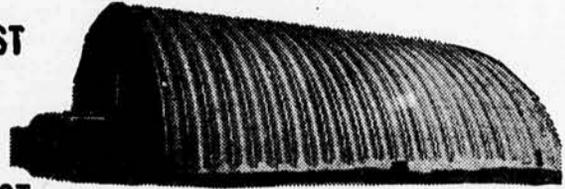
Also, chief officers of Reclamation Bureau offices in Denver, McCook, Oklahoma City, Pueblo and Amarillo; top men from Corps of Engineers offices in Kansas City, Tulsa and Albuquerque, and top USDA men from Tulsa and Lincoln.

Watch for the next issue of *Kansas Farmer* for another story.

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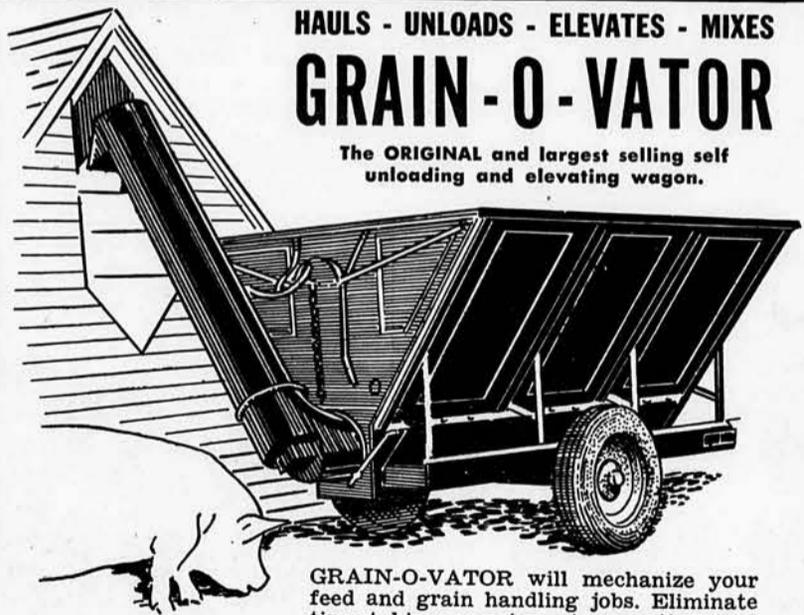


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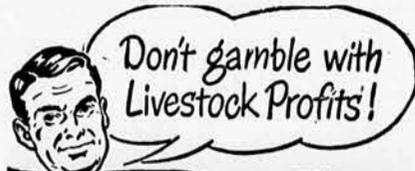
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Farm Prices Reasonably Stable Over the Next Few Months

By CLIF STRATTON, Kansas Farmer's National Affairs Editor

WASHINGTON, D. C.—Here is the farm price situation, as seen by O. V. Wells, Chief, Bureau of Agricultural Economics (BAE), Department of Agriculture. It is the story he told the Senate Committee on Agriculture and Forestry last week.

As of mid-January, prices received by farmers were running 11 per cent under a year earlier. . . . The average of all prices received dropped almost 9 per cent from mid-August to mid-December . . . greatest for meat animals and cotton, reflecting increased supplies and, in the case of cotton, a considerably reduced foreign market. . . . Some farm prices were higher this January than a year earlier, especially eggs, rice, dry beans and peas, apples and citrus fruit.

Incomes to Increase

"We believe the general level of agricultural prices is likely to be reasonably stable over the next few months and may show some slight increase," said Mr. Wells. "Consumer incomes are expected to increase in the first half of 1953, and to be sufficient to support a strong consumer demand for food and farm products thru the whole calendar year. Altho foreign demand was cut sharply in the second half of 1952 from levels of a year earlier, the rate of farm product exports is not likely to be reduced further during 1953, and this is a situation that may be expected to show some improvement.

"Marketings of many farm products, particularly field crops, have passed their seasonal peak so downward pressure of supplies on the price structure also should cease. Moreover, price-support operations also should prevent further declines for several of the major crops, especially corn, cotton, wheat."

Futhermore—"Meat animal prices," Wells declared, "may show some increase during the next few months with hogs showing the greatest strength as pork production is reduced. Cattle prices, given orderly marketing, should tend to stabilize and in the case of some classes

show some strength as compared with prices prevailing during the closing months of 1952 . . . prices of top-quality cattle have been expected to show a seasonal downward movement as a result of the record number of cattle reported on feed January 1."

Here's the farm squeeze as set forth by Mr. Wells:

While prices of farm products were falling 11 per cent over the 12 months, January, 1952-January, 1953, average of prices and cost rates paid by farmers—according to the parity index—fell less than 2 per cent, chiefly because of the decline in prices of feeder cattle. That is, there have been very few declines, and some increases, in prices of nonfarm goods used by farmers. At the same time, interest rates, taxes and wages of hired farm labor have increased.

As a result, the "parity ratio" fell from 105 as of January 15, 1952, to 95 as of January 15, 1953.

Over this same period costs of marketing food increased, with estimates indicating an increase of about 7 per cent in marketing costs from the last quarter of 1951 to the last quarter of 1952. This offset almost all advantage consumers might have expected from declines in farm prices. Actually, the retail food price index for December, 1952, the last month for which this index is available, was only 1 per cent below that of December, 1951.

This May Explain

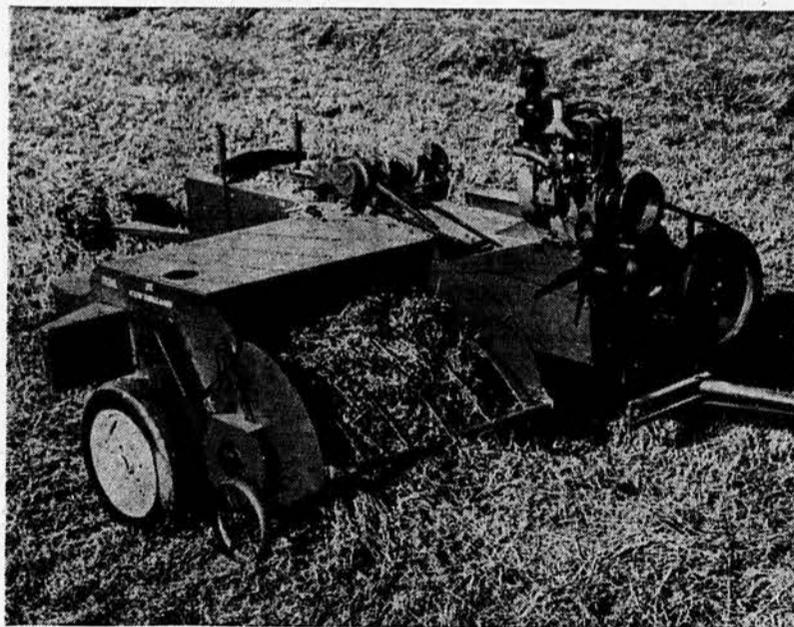
Here's the how and the why, as seen by the BAE—

1. A cost-price squeeze has developed to the disadvantage of agriculture over the last 2 years. With increased use of fertilizer and machinery, and with rising prices for these and other materials and services, cash expenses of farmers have increased greatly since the end of World War II.

2. Increased marketing costs: Retail food prices are only now beginning to show some effect of farm price declines. Costs of processing, transport-

(Continued on Page 45)

New Baler Handles 7 Tons an Hour



"I WOULD RANK this development alongside the tractor and the steel plow in importance to the Nation's agriculture," W. J. Browning, sales manager for New Holland Machine Co., told his luncheon guests in Kansas City recently. He referred to the Model 66, unveiled that morning, a new, low-cost, automatic, twine-tying baler designed particularly for the farmer with smaller hay acreages.

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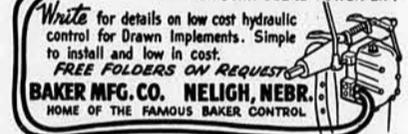
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ing and distributing (wholesale and retail) farm products have increased. And the farmer's share of the consumer's dollar (the average dollar spent for food in retail stores) has dropped from 50 cents to 45 cents over the 12 months (December, 1951-December, 1952), with farmers currently receiving smallest share of the consumer's dollar at any time since 1941.

3. Agricultural stocks: Price-support operations for several commodities have been accelerated by recent price declines. Carryover of wheat on July 1, 1953, is expected to more than double the 256 million bushels on hand July 1, 1952. Current indications are that cotton stocks may increase to around 4 million bales on August 1, 1953, as compared with 2.8 million bales last August. (If this observer's memory is correct, cotton carryover was around 12 million bales, not so many years ago.)

Considerable quantities of butter and nonfat dry milk have been purchased recently, and sizable stocks of vegeta-

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For tips on successful poultry production, write us for a copy of this new booklet—"Poultry Guide." It's published by Dr. Le-Gear Medicine Co., St. Louis. Write Farm Service Editor, *Kansas Farmer*, Topeka, Kan. No charge. Contains latest information on diseases, and expert advice on poultry raising. Has 50 pictures.

ble oils also are on hand. Meanwhile, it appears the downtrend in carryover stocks of feed grains has been halted and that there may be some increase, principally in corn, in stocks of feed grains on hand this coming October 1. In appraising the adequacy of these stocks, weather of course must be kept in mind. Should dry weather continue in the main wheat areas, for example, the wheat situation will be materially altered.

4. Decline in foreign demand: American agriculture has been geared in recent years to a foreign market for substantial quantities of wheat, cotton, tobacco and oils. The recent drop in agricultural exports in a period when non-farm exports were well maintained suggests the need for careful consideration of this whole question of foreign markets and demand.

Outlook for Prices

"In conclusion," said Mr. Wells, "our outlook materials have indicated agricultural prices in 1953 are likely to average somewhat less than in 1952. But probably not too much different from current levels, assuming military activities are not expanded. It seems to us cash receipts and gross farm income are likely to fall somewhat short of the 1952 level and, with production costs holding steady or continuing to rise, realized net income of farm operators may run 5 per cent or more below 1952."

Now for some observations from Ezra Taft Benson, Utah, new Secretary of Agriculture. Incidentally, few people in the know envy Mr. Benson his job. He faces a situation too much resembling the late twenties—peak industrial activity, a rising stock market,

and falling commodity prices the world over. The difference is in world-wide armament races, and a cold war teetering on the edge of a hot war.

Our agricultural policy, Secretary Benson told 100 newsmen at a press conference, should aim to obtain in the market place full parity prices of farm products and parity income for farm people, so farmers will have freedom to operate efficiently and adjust their production to changing consumer demands in an expanding economy.

This objective, he said, cannot be assured by government programs alone. It can be achieved only with a steady level of prices, high employment and production, and rising output per worker in our total national economy.

Must Support Research

"The most important method of promoting the long-time welfare of farm people and the Nation is the support of adequate programs and research and education in the production, processing, marketing, and utilization of farm products and in the problem of rural living," Secretary Benson said. "This program, with freedom, has enabled farmers to do their full share in providing the American people with the highest level of living in the world."

About his plans, "Price support laws will be carried out faithfully in every respect. There are mandatory price supports at 90 per cent of parity on the so-called basic commodities for 1953 and 1954. Other laws provide for supports on other farm products. While enforcing these laws, there will be formulated long-term programs which will more fully and effectively accomplish our over-all objectives.

"Price supports should provide insurance against disaster to the farm-producing plant and help stabilize national food supplies.

"But price supports which tend to prevent production shifts toward a balanced supply in terms of demand, and which encourage uneconomic production and result in continuing heavy surpluses should be avoided.

Should Reorient Policies

"Our efforts should be to reorient our present national policies and programs so they will contribute to development of a prosperous and productive agriculture within our free enterprise system.

"It is generally agreed there is danger in the undue concentration of power in the federal government. (Ezra spells it with a small "f"—a healthy sign.)

"Too many Americans are calling on Washington to do for them what they should be willing to do for themselves.

"The principles of economic freedom are applicable to farm problems. We seek a minimum of restrictions on farm production and marketing to permit the maximum of dependence on free market prices as the best guides to production and consumption.

"Farmers should not be placed in a position of working for a government bounty rather than producing for a free market.

"However, the ability to avoid restrictions on agriculture depends in part on willingness of other economic groups to adopt policies that permit flexible and dynamic adjustments.

"Our policies will emphasize the further development of both domestic and foreign markets for farm products."

HINTS ABOUT RECTAL AILMENTS

By CHARLES H. LERRIGO, M. D.

There is no joy in nursing along a pile condition in the hope of self-cure, for seldom does that occur. The person handicapped by rectal troubles never works at full efficiency, and effect upon his disposition is such he is apt to shed gloom upon all around him. Our special letter, "Hints About Rectal Ailments," gives much information of value. 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.

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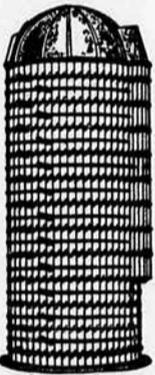
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First Time Cattle were exported from the United States is believed to be in 1755—a shipment of 16 steers from Savannah, Ga.

First Dairy Cow to fly in an airplane was Elm Farm Ollie—a Guernsey, on February 18, 1930. She was milked, and milk was sealed in paper containers which were parachuted over St. Louis, Mo.

First Shorthorn Cattle public auction sale was on October 29, 1836, at Chillicothe, O., at Felix Renick's Indian Creek Farm.

First Agricultural Encyclopedia in America was "The Domestic Encyclopedia," by Anthony F. M. Willich. It was a 5-volume set, printed in 1804, at Philadelphia, Pa.

First State Board of Agriculture was set up in New York state, January 20, 1820. The law establishing the board was passed April 7, 1819.

First Agricultural Society for dairy-

Cut Seeding Cost

Ways to cut costs in seeding grass and legume seed are given in a new booklet published by The Brillion Iron Works, Brillion, Wis., makers of seeders and pulverizers. It's "The Story of Grass," a 24-page booklet. For your free copy, write Farm Service Editor, *Kansas Farmer*, Topeka, Kan.

men was the Vermont Dairymen's Association, organized October 27, 1869, at Montpelier, Vt.

First Important Soil conference was the International Congress of Soil Science, held June 13 to 22, 1917, at Washington, D. C. Twenty countries were represented.

First College Professor of agriculture was Samuel Latham Mitchell, at Columbia College, New York City, on July 9, 1792. He taught agriculture, chemistry, natural history and related sciences.

First Milk Bottle delivery was in 1878, by Alexander Campbell, in Brooklyn, N. Y.

First Rotating Milking Platform (called a "Rotolactor") was invented November 13, 1930, by Henry W. Jeffers, at Plainsboro, N. J.; 1,680 cows were milked in 7 hours.

First Milk Inspector was appointed August 10, 1859, in Boston, Mass.

First U. S. Forestry association was the American Forestry Association, organized September 10, 1875, at Chicago, Ill. Robert Douglas was first president.

First State Forestry association was the Minnesota Forestry Association, organized January 12, 1876, at St. Paul, Minn. E. F. Drake was first president.

First Forestry Course at an American university was at University of Michigan, in 1881.

First Forestry School was the Biltmore Forest School, Biltmore, N. C., opened September 1, 1898, by Dr. Carl A. Schenck.

First College Forestry school was at Cornell University, Ithaca, N. Y., September 19, 1898.

First Tree Surgery correspondence course was started in 1914, by Davey Tree Expert Company, Kent, O.

First Ice Cream cone is believed to have been originated at Louisiana Purchase Exposition, at St. Louis, Mo., in 1904, by Charles E. Menches and a friend.

First Egg Incubator was patented on March 30, 1843, by Napoleon E. Guerin, of New York City.

First Ice Cream wholesale dealer was Jacob Fussel, Baltimore, Md., milk dealer, in 1851.

First Milk Goat show was held September 15 to 27, at Exhibition Park, Rochester, N. Y., sponsored by the Standard Milk Goat Breeders' Association of North America, organized May 24, 1913.

First Cattle to be exported from U. S. to Great Britain was in 1868, by Nelson Morris, Chicago, Ill., who shipped a few cattle to England and Scotland.

First Time Soybeans were mentioned in American literature was in 1804, by Mease, who wrote, "The soybean bears the climate of Pennsylvania very well. The bean ought to be cultivated."

The "Daddy" of Soybean growing in America is Dr. W. J. Morse, long-time employee of the U. S. Department of Agriculture.

American Soybean Association held its first meeting September 1, 1920, at

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Fouts Brothers farms near Camden, Ind. First president was Taylor Fouts.

Soybeans were first introduced into the United States in 1804.

First Soybean Combining was on October 22, 1924, on Garwood Brothers farm, Stonington, Ill. A 12-foot combine was used, with Massey-Harris Co. making the first trial.

First Cotton Growing and cloth-making was in India, then Persia and China. About 1000 A. D. cotton began to be cultivated in China for manufacturing purposes, development being held up for centuries because of vested silk interests.

In 1855 Hugh N. McAllister, of Pennsylvania, was one of the incorporators of the Farmers' High School of Pennsylvania, now Pennsylvania State College. Those "schools" were the first institutions in United States to carry into practical effect the ideas (of applying science to agriculture) which later were used in setting up the educational system of the Land-Grant Act of 1862.

First Commissioner of the U. S. Department of Agriculture (May, 1862) was Isaac Newton, Pennsylvania farmer. Later, the commissioner was known as Secretary of Agriculture.

First Seed Store in New York, and one of first in United States, was established by Grant Thorburn, born in Scotland in 1773.

First Herd Book, for Shorthorn cattle, was compiled in 1846.

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300 Different Postage Stamps from 30 different countries, \$1.00. Jack Fainlander, Osnabrock, N. D.

(Classified Continued on Next Page)

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Hound Men: read a monthly magazine devoted to coonhounds; training; breed news; field trials; shows; and coon, cat and bear hunting stories. Twelve issues, \$2.00. Sample, 20c. American Cooner, Box 211S, Sesser, Ill.

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Seed Wanted—Atlas Sorgo, Cane, Alfalfa and Bromo. Please submit samples immediately for bid. F. A. Mangelsdorf Seed Company, Atchison, Kan.

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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.

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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.

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

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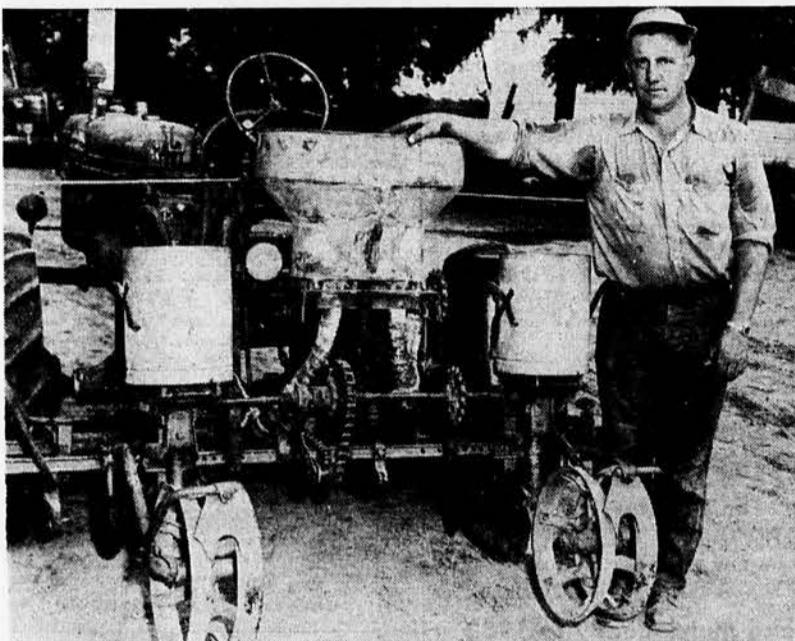
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Latest Methods treating piles, fistula, colon-stomach disorders. Write for free book. McCleary Clinic and Hospital, E240, Excelsior Springs, Mo.

Growing 70- to 75-bushel Corn on Land too Poor to Farm



A SPECIAL bowl for application of an excessive amount of potash at planting time was designed by Franklin Leasure, Woodson county. The 2 side bowls are filled with 8-32-0, center bowl with potash.

IT DOESN'T SOUND possible, but it's true. Frank Leasure and son, Franklin, of Woodson county, are now raising 70 and 75 bushels of corn an acre on land that wouldn't raise corn profitably when they purchased it for \$27 an acre in 1942.

Naturally, first thing you think of is legumes. But, says Mr. Leasure, no legumes have been used in rotations on the farm. All of the corn yield increase has been the result of generous use of commercial fertilizers. "For the last 6 years," says Mr. Leasure, "our corn has brought us an average gross return of \$90 an acre above cost of fertilizers."

Here is what has happened on the Leasure farm. Mr. Leasure early got the idea of fertilizing but at that time nitrogen was believed to be the only fertilizer element that would bring any returns in his area and few farmers would even try that. "I was certain my soil needed more than just nitrogen," says Mr. Leasure, "and I knew if it needed more than one element it would have to be fed a balanced diet to do any good."

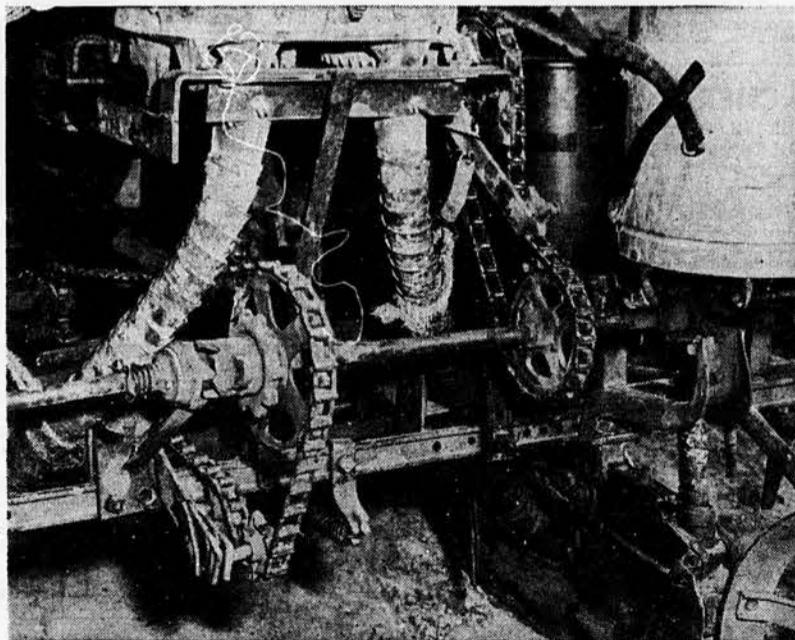
In 1945, first year he fertilized, Mr. Leasure plowed under 400 pounds of 4-16-0 an acre. Next year he jumped to using 100 to 125 pounds of 45 per cent phosphate at planting time, following with 100 to 120 pounds of 33½ per cent nitrogen as a side-dressing.

Last year he applied 150 pounds of 8-32-0 an acre at planting time. By using a special attachment on the planter he also added 55 pounds of 60 per cent muriate of potash an acre. An additional 125 pounds of nitrogen an acre was applied at the second cultivation.

With this gradual increase in use of fertilizers, corn yields on the Leasure farm have come from just a few nubbins not worth harvesting until in 1951 corn on 100 acres yielded an average of 70 bushels an acre. "That's on land some folks said wouldn't raise corn when we first moved here," says Mr. Leasure.

Here is a startling thing about the Leasure experiments, too. In 1951 a soil test was run on the farm. Organic matter was 2.6, PH acidity, 6.2; available P205, 14; exchangeable potassium, 100. Last year, after a 70-bushel-an-acre corn crop had been removed, organic matter was up to 2.9. Mr. Leasure explains it this way:

"I had always felt continuous corn would not lower the organic matter if properly handled, and we have proved it. The secret is that corn yields of less than 60 bushels an acre will lower your organic matter, while yields above that provide enough material to put back into the soil to maintain or improve organic matter. Naturally, when you



THIS CLOSE-UP view of the Leasure potash attachment on the corn planter shows how coils were run down to put potash on the runners behind the furrow openers. It is then covered by the press wheels. 8-32-0, carried in the side bowls, drops down over a split boot that keeps fertilizer off the seed.

use fertilizers you want to plant your corn thicker. We like 15,000 grains an acre."

One thing Mr. Leasure is heartily opposed to is raising corn for silage. "When you take all those stalks off the field you are dealing the organic matter in your soil a severe blow," he says.

Franklin, son in the Leasure partnership, tells an interesting story about some misconceptions we have on the fertility of native sod when first broken out for crops. "In 1950," he says, "we broke out 70 acres of meadow land and planted 40 acres to corn. We fertilized some of this corn with 100 pounds of 47 per cent phosphate an acre at planting time but left check rows unfertilized. Then, all of the corn, check rows and all, got 125 pounds of 33 per cent nitrate. Corn that got both fertilizer elements made 57 bushels an acre. Check rows just had a few nubbins and 90 per cent of the stalks were barren. In this case the trouble was phosphate deficiency and the nitrogen alone just didn't do the job."

"That same year," Franklin continues, "we planted soybeans on the rest of that so-called virgin soil. They made only 5 bushels an acre. Soybeans in fields previously planted to corn that had been heavily fertilized made 28 bushels an acre. This indicates that even our native pasture soils are deficient and can be improved when broken out and properly fertilized."

This demonstration has convinced the Leasures that their pastures also need fertilizing. In 1951 they put 2 tons of lime an acre on a mixture of bluegrass and lespedeza. Last year they applied a mixture of nitrogen, phosphorus and potash—about a 10-45-20 mixture—on the pasture at a cost of \$8 an acre. The fertilizer was broad-

Walk on Water!

Insects that can walk on water are able to do so because feet and legs are thickly covered with tiny hairs that retain a filling of air. This acts like a coating of oil over which water doesn't flow.

cast. This spring the pasture land will be soil tested and then fertilized according to test.

In 1951, on co-operative test plots on the farm, the Leasures, in co-operation with Kansas State College, experimented with several organic fertilizers—soybean meal, tankage and urea. All gave high returns. Best yields were with tankage and urea. One hundred pounds of 60 per cent tankage an acre brought a yield of 82 bushels an acre compared to 46 bushels in the check plot. One hundred pounds of urea an acre brought a yield of 84 bushels an acre compared to 46 bushels for the check plot.

A. L. Clapp, Kansas State College agronomist in charge of co-operative corn plots, says: "These results on the Leasure farm indicate we should make additional experiments with organic fertilizers."

In the Leasure test plots, largest increase in yield over check plots for regular fertilizer combinations came with application of 100 pounds of 11-47-30 at planting time, followed by 37 pounds of nitrogen as a side-dressing. This combination produced a yield of 83 bushels an acre, and an increase of 37 bushels an acre over the check plot and an increased dollar value an acre of \$55.50 over the check plot.

"It all goes to show we haven't yet reached the point of maximum returns in our fertilizer applications," says Mr. Leasure.

Is It True?

Is it true a moth never eats, that it has no mouth or stomach?

Doing the damage to vegetation and clothes is not the adult moth but its larvae and caterpillars.

Choose Kansan

A Kansan will judge Polled Hereford cattle at the Royal Easter Show in Sydney, Australia, this month. Walter M. Lewis, Larned, has officiated as judge at several state and national shows in the last 19 years. When a student at Kansas State College he was a member of livestock judging teams, one of which won first at the Southwestern Exposition and Fat Stock Show at Fort Worth, Tex., in 1934.

Mrs. Lewis was a member of the 1951 Master Farm Homemaker group chosen and honored by *Kansas Farmer* for their achievements.

New Edition Printed Of Poultry Theses

A new edition of "Poultry Theses" has been printed by Kansas State College Press. Authors are L. F. Payne, head of poultry department at the college, and W. J. Mellen and J. H. Bruckner, of Cornell University, Ithaca, N.Y.

The booklet contains a list and information on poultry theses presented for advanced degrees at U. S. land grant colleges and universities from 1896 to 1950. First list was printed by Kansas State College in 1944.

Chase County Has Big Soil Year

Chase County Soil Conservation District reports a big year for 1952 activities.

Applicants for assistance in preparing farm conservation plans numbered 55. That fact, and the 22,685 acres covered, sets a conservation record there. The district has received 351 applications covering 163,682 acres during history, which is about one third of all land in county, and nearly half the farms.

These practices were established during 1952: 32.5 miles of terraces and diversion terraces; 11.7 miles drainage ditches; 23 acres grassed waterways; 11,594 acres pasture improvement; 1,677 acres contour farming; 326 acres seeded to permanent grass; 7 acres farmstead windbreaks; 864 acres weed and brush spraying; 3,386 acres planted to alfalfa and sweet clover; 22 farm ponds built; 12 gully control structures built.

New 4-H Project

Kansas has a new 4-H project for rural youth—woodworking. There are 2 parts to the project work—construction and woodwork repair and maintenance. Members must make 3 or more articles and do one or more repair or maintenance jobs. Advanced members will choose 5 or more things to do from either or both lists.

Announce New Grain-Drying Storage Unit

Announcement was made of a revolutionary grain-drying and storage unit, at recent meeting of American Society of Agricultural Engineers at Chicago. The unit is called Quonset 16.

It makes the corn picker-sheller a practical harvesting machine for corn growers, and teams up with that implement to cut farm labor and storage costs. Report of Quonset 16 to the meeting was made by D. B. Poor, agricultural engineer for Great Lakes Steel

Corporation, and chairman of the society's farm structures division.

During 1952, the drying-storage unit demonstrated shelled corn of up to 25 per cent moisture content may be successfully dried with unheated air while in storage. The unit is 16 feet wide, equipped with a unique down-flow aeration system. The small-grain grower can start combining earlier in the season, earlier in the day, and enables him to combine when conditions are too high for placing grain in storage.

Award to Kansan

The Sewell Citation of the National Boston Poultry Show has been awarded a Kansan—G. D. McClaskey, Topeka. He was a judge in Boston recently at the 105th annual poultry show there. The citation is given in memory of F. L. Sewell, a poultry artist. Mr. McClaskey heads the poultry department at the Kansas Free Fair, frequently wrote poultry articles for *Kansas Farmer*.

Opinions Unchanged

By CLIFF STRATTON

So far as ending of price controls and compulsory "funny" grading of beef cattle are concerned, nothing has happened since to contradict the opinions of Secretary of Agriculture Ezra T. Benson and O. V. Wells, chief of the BAE, both stated just before these were abolished.

Said Secretary Benson, contending that ending these would benefit both cattlemen and consumers:

"Price controls at retail level, and a compulsory grading system that was extremely inequitable in many instances, brought about disorder on the producer end. On the consumer end retailers, and restaurants, facing a possible extension of controls naturally held prices just as high and as close to ceilings as they could. Otherwise they would face a low base for future ceiling prices."

From BAE Chief Wells: "I cannot see any economic reasons why farm prices should go down farther in the next few months."

Ronald Couble, Belpre, and Wayne Sankey, LaCrosse. This newly organized association is planning a spring sale of commercial cattle. Date will be announced in near future.

JOHN WEIR, Jr., Geuda Springs, has been awarded national honors for an outstanding Jersey bull he owns—Sir Standard's Royal Prince, who has been named a Superior Sire by the American Jersey Cattle Club. The rating means the bull has passed on high production and good breed type to his daughters. His 10 daughters tested for production averaged 8,627 pounds milk containing 476 pounds butterfat on twice daily milking. Ten daughters classified for breed type had an average rating of 54 per cent.

Sixty-seven registered Herefords at the NORTHEAST KANSAS SALE, held January 31 at Topeka, brought a total of \$18,902. This offering made a general average of \$282. Fifty-four bulls averaged \$277 and 13 females, \$300. Show champion and top sale bull was Lot 58, Majestic Helmsman 15th, consigned by Sackett Hereford Farm, Tonganoxie, and sold to Walter Robinson, Colony, for \$690. Show champion and top-selling female was Lot 6, BHF Miss Larry 18th, consigned by Beeks Hereford Farm, Baldwin, and was bought for \$565 on bid of Mr. and Mrs. F. W. Hay, Stanley. Elmer Becker, Meriden, was sale manager. Gene Watson sold the offering.

The editors wife of *Kansas Farmer* recently received a letter from EDITH RAMAGE, secretary, Kansas Angus Auxiliary, Little River. At annual meeting of the State Aberdeen-Angus Association in Hutchinson, a desire was expressed for a ladies' auxiliary to this association to be formed. Only 8 women were present and from this group 3 temporary officers were elected: Mrs. J. F. Huddelson, president; Mrs. W. M. Theis, vice-president; and Mrs. Iri F. Ramage, secretary-treasurer.

The National Show and Sale will be held in Hutchinson, next September and the ladies felt a great need for some sort of organization. All the wives of Kansas Angus breeders are receiving newsletters about this new organization. In all probability the meeting of the National Women's Angus Auxiliary will be held during the national show and sale. The Kansas ladies are expected to be hostesses to the out-of-state visitors and they certainly want to make these ladies welcome.

The KAW VALLEY HEREFORD SALE held Monday, February 2, was well attended. Fifty-five lots sold for a total of \$18,605 to make a general average of \$388. Thirty-eight bulls brought \$4,620 to make an average of \$368 and 17 females averaged \$271. Top bull was Lot 18, Royal Resolute, by Bells Resolute 14th, consigned by Carl Wagner, Randolph, and sold for \$1,000 to Norris & Wohler, Randolph. The \$700 mark was reached twice in the bull sale. Millard Horn, Alma, bought Lot 20, show champion, WS Domino Lad 1st, owned by Grant Poole, Manhattan, and again when Grant Poole purchased Lot 2, Super B. Anxiety 159th, consigned by Harold Mertz & Son, Manhattan. Top female was Lot 45, CK Clara Belle 13th, consigned by CK Ranch, Brookville, and sold to Sanders Herefords, Miller. Dr. Rufus Cox, of KSC, judged the show. Col. Gene Watson cried the sale.

The Duroc judging contest and sale sponsored by the veteran Duroc breeder VERN ALBRECHT, Smith Center, on February 7, indicated better prices for bred gilts and increased interest in the big contest which preceded the sale. It's difficult to estimate the exact number, but by 10 A. M. it looked like there were 1,000 or more folks present. There were 49 Vocational judging teams with 284 students participating; 109 4-H members participated in the judging contest. A number of veterans who are in G. I. classes entered the contest. High man in the veterans group was Elvin Deur, Alton. Robert Schwartz, Norcatur, was high 4-H contestant. The Smith Center team won the trophy

and the team coming from the greatest distance was from Goodland. Six classes of Durocs were placed. An ideal day made the contest and sale attendance above expectations. Willard Waldo, DeWitt, Nebr., and Don Washburn, United Duroc Record Association, were judges.

Forty-nine bred gilts averaged \$111.32; top gilt at \$160 went to Orville Nonamaker, Lebanon; Sim Robbins bought 2 gilts at \$155 each. Burkland & Son, Beloit, bought 2 gilts at \$145. Two May boars sold for \$125 and \$100; 4 fall boars averaged \$58 with a \$65 top to C. F. Eshelman; \$125 boar went to Myron Coffin, Phillipsburg. A group of 6 gilts and 1 boar, all 4 months of age, sold for \$35 each to Floyd Wolf. Fifteen head went to outstate buyers. Bert Powell, assisted by Ira Chandler, Phillipsburg, and press representatives, conducted the sale.

TREND OF THE MARKETS

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

	Week Ago	Month Ago	Year Ago
Fed Steers	\$26.50	\$30.00	\$35.25
Hogs	21.00	19.25	17.65
Lambs	23.00	22.00	27.00
Hens, 4 to 5 lbs. ....	.26	.24	.25
Eggs, Standards .....	.40	.41	.33
Butterfat, No. 1 .....	.58	.58	.82
Wheat, No. 2, Hard	2.34	2.45	2.57
Corn, No. 2, Yellow	1.51	1.61 1/4	1.91
Oats, No. 2, White .....	.87	.97	1.03 1/2
Barley, No. 2	1.36	1.50	1.45
Alfalfa, No. 1	45.00	45.00	35.00
Prairie, No. 1	38.00	—	28.00

Dual-Purpose CATTLE

ROAN Milking Shorthorn BULL
Also 2 bull calves, roan and white. "Brookside & Walgrove Breeding."
WAYNE E. SCHURLE, Alma, Kansas

FOR SALE: REGISTERED AND GRADE Milking Shorthorn BULL CALVES
From 2 to 19 months old.
BEN HOLLE, Hanover, Kansas

Duallyn MILKING SHORTHORNS
Herd sires from Duallyn have improved milking and fleshing quality of many herds, by a son of one of the noted proven sires: Imported Iford Earl Gwynne 11th, RM, or Neralcam Admiral RM. Write for prices.
JOHN B. GAGE, Rt. 1, Eudora, Kansas

REG. RED POLLED BULLS
Quality Yearlings. Priced reasonable.
WM. WIESE, Haven, Kan.

Dairy CATTLE

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

REGISTERED JERSEYS

All ages, sired by Dynamo Blonde and Design Wonder Observer.
Marshall Bros., Sylvia, Kansas

AYRSHIRE HEIFERS: Calfhood vaccinated. One 3-year-old, reg. Calve in March. Two purebred, 1 15-mo.-old and 1 5-mo.-old. All good type and out of preferred pedigree bull. H. C. TAYLOR, Rt. 2, Lyons, Kan.

HOGS

REGISTERED SPOTTED POLAND CHINA BRED GILTS
To farrow in March
Top quality gilts, most of them bred to "Blender Special, the champion boar of the Kansas State Sale, 1952. Special privileges to 4-H and FFA members.
WALTER ROTHE, Ness City, Kansas
6 miles south and 1 west. Phone 9F14

REG. SPOTTED POLAND CHINA CHOICE FALL BOARS AND GILTS
Top bloodlines, sired by Kansas Model & The Duke J. V. Cundiff & Sons, Talmage, Kan. (4 1/2 m. N.)

POLAND CHINA BRED GILTS
For Sale: 100 head to select from. Also tops in fall boars and gilts. Write BAUER BROS., Gladstone, Nebr. Just over the line in Nebr.

FOR SALE YORKSHIRE GILTS
Bred for March and April farrow to L. T. H. Evergreen King 17 F. littermate to champion barrow over all breeds at Nebraska Fair 1951 and champion carcass over all National Barrow Show, Austin, Minn. 1951. Also a few boars.
GEO. WM. BURKHOLDER
Ablene, Kansas

YORKSHIRE GILTS
Bred to Stockhaven Oxy King A5F and CHB Nan's Topper, a grandson of Packwood King David 104th, for March farrow. Topper is also for sale. Charles H. Becker, Cawker City, Kan.

Choice Duroc BRED GILTS
For February and March farrow. Bred to Pioneer Lad and Admiral's Pride. Also fall pigs. Immured.
WM. BOHLEN, Downs, Kansas

Duroc Fall Boars by BLOCKY KNOCKOUT
Also have gilts bred to Proud Wave for March litters.
Bert Nixon, Manchester, Kan.
(3 miles west and 1 1/4 miles north of Industry on sand road.)

Minnesota No. 1 Boars For Sale
Ready for immediate service. These wonderful new meat type boars are ideal for crossing on your present stock. This herd is all registered. Also Minnesota No. 2 and Montana No. 1 boars and gilts. Satisfaction guaranteed.
DAVID R. MILLER, SMITHVILLE, MO.



In the Field
MIKE WILSON
TOPEKA, KANSAS
Livestock Editor

JOHN & GEORGE HEERSCHE, Mulvane, are owners of Heersche Quin-Dale Commander Brand, registered Holstein cow who has further added to her outstanding lifetime production of more than 100,000 pounds of milk, on record with Holstein-Friesian Association of America. In 7 milking periods, covering 2,407 days, she produced 127,900 pounds of milk and 4,348 pounds butterfat on 2 milkings daily.

MARSHALL BROS, Sylvia, recently wrote our office that their herd roll call now numbers 80 head of registered Jerseys. This herd was established in 1910. Last 4 herd sires used at their Brookside Stock Farm came from the Hallmark Farms of Kansas City, Mo.

The KANSAS HEREFORD ASSOCIATION RANGE BULL SALE held at Dodge City, February 9, totaled \$116,875 on 316 lots to make a general average of \$369. Top bull was Lot 215, RF Tallman 43rd, consigned by A. D. Rayl, Hutchinson, and brought \$1,415 from A. J. Hummel, Burdett. Top pen of 3 bulls were also consigned by Rayl and brought \$715 from Lee Warner, Cimarron. H. S. Stanhope paid \$675 each for the top pen of 5 bulls, while Fred Drummond, Pawhuska, Okla., paid \$600 for top pen of 2 bulls. Auctioneers were Freddie Chandler and Gene Watson.

Word comes from HARTLEY FARMS, Baxter Springs, Kan., they have recently purchased the entire registered Shorthorn herd of the late CLAUDE MATIX, Girard, Kan. Herd consists of 39 females, 11 calves and a bull; also the Matix herd sire "Mercury's Command," who is a half brother to the bull that William Thorne, Lancaster, recently sold for \$10,000. The Matix Shorthorn herd was established many years ago and should make a worthy addition to the Hartley Farm herd. Hartley Farms are owned and operated by M. R., and R. F. Hartley, Baxter Springs, Kan. The Hartleys are planning a spring production sale.

Angus breeders in Kansas met at LaCrosse recently to organize the CENTRAL KANSAS ABERDEEN-ANGUS BREEDER'S ASSOCIATION. Raymond Georg, Rush Center, was named president; Wayne Ficken, Bison, vice-president, and Elmer Spomer, Alexander, secretary. Following men were elected to board of directors: Herbert Drake, Nekoma; O. E. Nelson, Garfield; Alva Powers, Roze; Fred Dirks, LaCrosse;

"THE KANSAS SPECIAL"
HUTCHINSON, KANSAS
Monday, March 30, 1953
Central Sales Pavilion — 1:00 P. M.
REGISTERED ABERDEEN ANGUS
from the herds of
ERICSON, THALMANN & DAVIS
50 CHOICE FEMALES — 10 HERD SIRE PROSPECTS
SIREs are 109, a son of "487"; Happy Acres 70, \$20,000 son of "687"; Prince Sunbeam 633, a son of "29th"; Bandler of Anoka 54th.
FAMILIES: Blackcap Empress, Zara, Mignonne, Witch of Endor, Porthelin Lucy, Juanne Erica, Miss Burgess, etc.
For sale catalog and information contact
WENDELL DAVIS, Norwich, Kansas
Auctioneers: Ray Sims and Gene Watson
Mike Wilson for Kansas Farmer



CEDARCREST DAIRY FARMS
HOLSTEIN DISPERSAL SALE
Sale will be held in heated tent at farm 4 1/2 miles N. E. of
INDEPENDENCE, MO.
on Kentucky Road. Note sale signs.
Wed., Feb. 25—12:30 Noon
115 HEAD SELL IN BIG DISPERSION SALE
Since we are cutting down our dairy operations we will sell every dairy animal on our farm over 1 year of age.
THE SALES OFFERING—70 head of real Holstein cows, mostly all young, good ages, lots of size, type and quality. 15 Holstein heifers, heavy springers. Real foundation females, 21 yearling Holstein heifers, well marked and from high-producing dams. 6 top Guernsey cows, good ages. 2 registered Holstein sires. One purchased from the Burgess herd of Grandview, Mo. One that Burgess imported from Canada. The non-registered bull is from an 800-pound dam. PRODUCTION—Herd under DHIA test for several years. Past 4 years production records are 400 plus, 463, 473, 474 pounds of butterfat. This herd produced over \$42,000.00 worth of milk in 1952.
HEALTH—Most of herd officially calfhood vaccinated for Bang's. All cattle tested for Tb. and Bang's within 15 days of sale. Individual health certificates furnished.
For sale catalog giving milk records and other information write to
DONALD J. BOWMAN, Sales Manager, Hamilton, Mo.
EDWARD WATSON, Owner, INDEPENDENCE, MO.
Auctioneers—Bert Powell, Donald Bowman and Harvey Hartvigsen



REGISTERED POLLED HEREFORD PRODUCTION SALE



**Tuesday,
March 10**

**Selling
50 Bulls
63 Females
15 Open Heifers
and
12 Bred Heifers**

The service sires for the bred heifers are the 1951 national champion O'Larry Mischief 7th, EER Victor Tone 4th and CMR Mischief Domino 72d by CMR Rollo Domino 12th.

Here's how our great herd sire group is represented in this sale:

	Bulls	Females
EER VICTOR TONE 4TH Our son of EER Victor Domino 12th "Pop-eye" sire of the \$2,700 summer heifer calf in our October sale—a 100% dehornor.	5	4
ALF BATTLE MIXER 10TH By ALF Pawnee Mixer 24th—his calves were the "talk" of our October sale. Again this sale we are selling more of his get than any of our other sires.	18	10
CMR MISCHIEF DOMINO 45TH By CMR Rollo Domino 12th, a full brother to CMR Mischief Domino 36th top-selling bull of the 1950 Circle M Ranch Sale.	9	10
ALF CHOICE DOMINO 11TH By CMR Choice Domino, more than a half brother to A. G. Rolfe's 1950 national champion ALF Choice Domino 6th.	8	8
O'DON ADVANCE 19TH A Frank Robinson bred bull siring yellow, mellow, beefy calves.	5	7
O'ROLLO DOMINO 5TH A grandson of Beau Perfect 24th purchased as second top-selling bull in the 1950 Kansas State Sale.	6	3
CMR ADVANCE DOMINO 17TH A double bred grandson of Circle M Advance Domino.	1	1
ALF MIXER RETURN 9TH A former herd sire by ALF Beau Mixer 3rd.		6

Plan to attend the Halbert & Fawcett Sale, Miller, Mo., March 9, and then our sale, March 10, less than 100 miles apart on hard surfaced road.

JOE O'BRYAN, Owner — O'BRYAN RANCH, Hiattville, Kan.

Auctioneers: Fulkerson, Watson and Sims Mike Wilson for Kansas Farmer

Your Best Buy Today Is U. S. Savings Bonds

BULL POWER IS THE THEME IN . . . HARTLEY FARMS SCOTCH SHORTHORN SALE

Baxter Springs, Kansas

March 16th

at the farm (3 miles north, 1 1/2 miles west of Baxter Springs)

1:00 P. M.

SELLING: 12 good headed, heavy boned, short legged Bulls; 51 Females, that include 25 cows with calves at foot; 15 Bred Cows and Heifers, 11 Open Heifers.

Featuring Shorthorns with Ruggedness, Substance, Heavy Bone, Good Head and Natural Fleshing.



We think the bulls we are offering will be a real challenge to you and as usual, we have some top-notch attractions in the 51 females that are selling. Did you notice the large group of cows with big husky calves at foot that we are offering?

The bulls include 9 sons of Imported Glassel Dura, one by Imp. Moy Bounty and one Imp. Glassingall Research. Also selling, is the outstanding three-year-old bull, Mercury's Command, half brother to the \$10,000 Mercury's Jasper 2nd, by Sni-A-Bar Random Mercury. We acquired this bull with the entire C. L. Mattix herd at Pittsburg, Kan., which we purchased intact earlier this year.

The females include 11 daughters of Glassel Dura, others by Supreme Goldfinder, Edellyn Radiant Command, Mercury's Archer, Supreme Flash, Royal Command and Royal Commander. Everything sells Tb. and Bang's tested and fully guaranteed.

For the catalog, address

MERVIN F. AEGERTER
Sale Manager, Seward, Nebraska

C. D. Swaffar, Auctioneer

Public Sales of Livestock

Hoisteln Cattle
February 25—Cedarcrest Dairy Farm, Independence, Mo. Edward Watson, Owner. Donald J. Bowman, Sales Manager, Hamilton, Mo.
March 23—Tulsa Spring Classic, State Fairgrounds, Tulsa, Okla. Robert W. Adams, Sale Manager, 116 E. 5th St., Tulsa, Okla.

Guernsey Cattle
April 13—Missouri Breeders' Association, Columbia, Mo. H. A. Herman, Secretary, 409 Exchange National Bank Building.

Aberdeen-Angus Cattle
February 23—Central Illinois Breeders' Association, Congerville, Ill. Forrest W. Lemons, Secretary.

March 26—U. S. Center Aberdeen-Angus Sale, Smith Center, Kan.
March 27—Kansas 487th Sale, Salina, Kan.
March 30, 1953—Kansas Special Registered Aberdeen-Angus Sale, Ericson, Thalman & Davis, Hutchinson, Kan.

April 1—Southeast Kansas Aberdeen-Angus Breeders' Association, Iola, Kan. Clarence C. Ericson, Savonburg, Kan.
April 9, 1953—Mid-Kansas Aberdeen-Angus Association, Hutchinson, Kan. Phil Sterling, Secretary, Canton, Kan.

April 16—Northeast Kansas Aberdeen-Angus Association, Horton, Kan. Wayne Ukena, Sale Manager, Everest, Kan.

April 21—Herman J. Steinbuechel Dispersion, Florence, Kan. Sale at J. J. Crowther Sale Barn, Canton, Kan.

May 4—Penney & James, Hamilton, Mo. J. B. McCorkle, Sales Manager, Suite 3500 A.I.U. Building, Columbus, O.

Hereford Cattle
February 27—Sam Gibbs, Clay Center, Kan.
March 2—Marshall County Herefords, Marysville, Kan.

March 4—Kansas Great Plains Hereford Association, Hills City, Kan. Bill Goddard, Sale Manager, Penokee, Kan.

March 13—Western Republican Valley Hereford Association, St. Francis, Kan.
March 18—Morris County Association, Council Grove, Kan.

March 20—Sutor Hereford Farms, Palco, Kan.
March 24—Lincoln County Association, Sylvan Grove, Kan.

March 21—Doly Farm, Nelson, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.
April 14—North Central Kansas Hereford Association, Belleville, Kan. George C. Wreath, Sale Manager, Belleville, Kan.

April 16—Duttlinger Brothers, Monument, Kan., and Homeshead Ranch, Levant, Kan. Sale at Oakley, Kan.

April 18—Mid West Polled Hereford Association Show and Sale, Deshler, Nebr. Fred C. Duey, Sale Manager, Chester, Nebr.

April 25—Belden & Schuetz, Horton, Kan.
May 1—Kaw Valley Hereford Farm, Manhattan, Kan.

September 7—Lee M. Smith, Claremore, Okla. Complete Hereford dispersal.

October 5—Beeks & Cleland, Baldwin, Kan.
October 29—Kansas Flint Hills Association, Cottonwood Falls, Kan.

November 4—Lincoln County Hereford Association, Sylvan Grove, Kan.
November 6—Cowley County Hereford Breeders' Association, Arkansas City, Kan.

November 11—W. H. Tonn & Son, Haven, Kan.
December 4—South Central Hereford Association, Newton, Kan.

Polled Hereford Cattle
March 10—O'Bryan Ranch, Hiattville, Kan.
March 23—Kansas Polled Hereford Association Bull Sale, Norton, Kan. Vic Roth, Secretary, Hays, Kan.

April 6—Real Plato Domino Polled Hereford Sale, Hays, Kan. Vic Roth, Sale Manager, Hays, Kan.

April 7—Durrel Hinkhouse Polled Herefords, Palco, Kan. Sale at Plainville, Kan. Vic Roth, Sale Manager, Hays, Kan.

April 20—Paul & Gladys Molz Polled Herefords, Klowa, Kan.
April 21—Joe Maes Polled Herefords, Bushton, Kan. Sale at Osborne, Kan. Vic Roth, Sale Manager, Hays, Kan.

May 20—Golden Willow Ranch, Liberal, Mo.

Shorthorns and Polled Shorthorns
April 7—Nebraska and Kansas Breeders, Superior, Nebr. Mervin F. Aegerter, Sales Manager, Seward, Nebr.

April 15—Shorthorn and Polled Shorthorn Breeders Show and Sale, State Fairgrounds, Hutchinson, Kan. Mervin F. Aegerter, Sales Manager, Seward, Nebr.

April 20 & 21—National Polled Shorthorn Congress Show and Sale, Hutchinson, Kan. American Polled Shorthorn Society, Sales Managers, 7 Dexter Park Ave., Chicago 9, Ill.

April 22—Thiemans, Concordia, Mo.

Spotted Poland China Hogs
February 23—Kansas Spotted Poland China Association, Phillipsburg, Kan. H. E. Holliday, Secretary, Richland, Kan.

Hogs—All Breeds
February 28—Ness County Hog Breeders Sale, Ness City, Kan. Walter Rothe, Sale Manager, Ness City, Kan.

Corriedale Sheep
July 27-28—All-American Corriedale Breeders Show and Sale, Columbia, Mo. Rollo E. Singleton, Secretary-Manager, 108 Parkhill Ave., Columbia, Mo.

Dorset Sheep
April 21—Leonard Steward, Grenola, Kan. Sale at Winfield, Kan.

Sheep—All Breeds
June 19-20—Midwest Stud Ram Show and Sale, Sedalia, Mo. Rollo E. Singleton, Sales Manager, care State Department of Agriculture, Jefferson City, Mo.

Beef CATTLE

MARSHALL COUNTY HEREFORD ASSN. SALE

Will be held at the breeding's modern sales pavilion 1/2 mile west of
MARYSVILLE, KANSAS
on March 2
(12:30 NOON)

SELLING 33 BULLS AND 32 FEMALES
10 CONSIGNORS will offer bulls of service age and females which include bred and open heifers. Top quality, best of bloodlines.

For sale catalog write to
ELMER E. PETERSON, Secretary
Marysville, Kansas
Auctioneer: F. Chandler
Bert Powell with Missouri Ruralist



REG. HEREFORDS

Big rugged bulls for sale, 21-23 months old. Sired by Jupiter Blueblood 3rd and Bardom Mixer 14th. Both sires stood first in class at American Hereford Association Roundup Show and Sale. 25 open heifers of same breeding for sale.

ARTHUR ATTWOOD, Silver Lake, Kan.

REG. HEREFORD BULLS

10 to 18 months old. Sired by: OJR Jupiter Star 12th, Domino Lad KTO 11th and F. Elation 22. Top range and herd bull prospects.

WAITE BROS., Winfield, Kansas



REG. HEREFORD HERD BULL

Coming 6 years old. Good breeder, excellent conformation. Domino breeding. Also 2 registered yearling bulls.

J. and K. Erickson, Olsburg, Ks.
2 miles south and 3 1/2 miles east of Cleburne.



FOR SALE

Serviceable age bulls, descendants of our champions from our cow herd that is bred in the purple. If you are in the market for good Polled Hereford bulls, don't fail to pay us a visit. Plain View Farms,

JESSE RIFFEL & SONS, ENTERPRISE, KAN.

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

Sunflower Farms ANGUS



Herd Sires:

Ever Prince Revolution 2nd
Homeplace Eileenmere 304th.
Ever Prince of Sunflower.

Cattle of both sexes for sale at all times. We have bred and sold some of the top winners and selling cattle at the larger shows and sales throughout the country. When in need of good breeding stock pay us a visit.

Sunflower Farms, Everest, Kansas
Jim, Keith and Bob Swartz, Owners

REGISTERED ANGUS

Now offering bulls 10 to 18 months.
CHESTNUT & RAILSBACK, Quinter, Kansas

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BERT POWELL

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



HAROLD TONN

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

KANSAS POLLED HEREFORD BULL SALE

Norton, Kansas — March 23, 1953

Show: 9:00 A. M. C.S.T — Sale: 1:00 P. M. C.S.T.

SELLING 70 BULLS

Sale held in Norton Sale Pavilion — Judge: ANDY SCHOEN
For top Range Bulls and Herd Bull Prospects, be sure and attend this sale.

Banquet and meeting will be held at the Kent Hotel, Sunday, March 22, at 7:00 P. M. Visitors Welcome.

For catalogs and information write:



VIC ROTH, Secretary-Sale Manager, Box 702, Hays, Kansas

**Republican Valley Hereford
Breeders' Assn. Seventh Annual
SHOW & SALE
RED CLOUD, NEBRASKA
MARCH 5th and 6th**

Show at 1:00 P. M., March 5, 1953
Sale at 1:00 P. M., March 6, 1953



**63 Head of Purebred Herefords
48 Bulls and 15 Females**
30 Bulls, 18 to 24 months old
10 Bulls, 15 to 18 months old
8 Bulls, 12 to 18 months old

You will find herd bull prospects and top range bulls in this offering.

12 Bred Heifers — 3 Open Heifers
These are excellent foundation females.

Top consignments from 25 of the best herds in
South Central Nebraska and North Central Kansas

ED BELSKY, Judge, Merriman, Nebr.

For catalogs and information write

CHARLES KORT, Mgr., Blue Hill, Nebraska

Charles Corkle, Auctioneer

Mike Wilson for Kansas Farmer

**MORRIS COUNTY BREEDERS SALE
WEDNESDAY, MARCH 18th
1:00 P. M. at
COUNCIL GROVE, KANSAS**

55 HEAD

Registered Herefords — Horned and Polled

24 Bulls, serviceable ages. 31 Females sell in perfect breeding condition.
Open and Bred Heifers and Cows. 5 cows will have calves or near calving
sale day.

Bloodlines: WHR — Larry Domino — Hazlett

Write for catalog to

JOE GOODWIN, Secretary, Council Grove, Kansas

Mike Wilson for Kansas Farmer

Livestock Advertising Rates

Effective February 1, 1951

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

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

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

**March 7
Will Be Our Next Issue**

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

Tuesday, February 24

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

**KANSAS GREAT PLAINS
HEREFORD ASSOCIATION
SHOW & SALE
March 4, 1953
In The HILL CITY Sale Barn**

SHOW AT 9:00 A. M.
TAYLOR JONES, Judge
SALE AT 12:30 P. M.



**Selling 68 Head of Registered Herefords
44 Range and Herd Bull Prospects
24 Bred and Open Heifers**

CONSIGNORS

Carl Ackerman, Park
Floyd Chapman, Grainfield
Clarence Cole, Ruleton
S. F. Depew, Norton
Foster Farms, Rexford
E. P. Goddard & Sons, Penokee
H. G. Hereford Farms, Colby
E. E. Holmdahl, Herndon
Dale Jamison, Quinter

Jansonius Bros., Prairie View
Pete Maeder, Redwing
Sylvester Mader, Oakley
Schneider Ranch, Stockton
J. A. Schoen & Sons, Lenora
Chas. & Russell Stewart, Quinter
Sutor Hereford Farms, Zurich
Don Wigington, Quinter

**Banquet served at the Hill City Drive In at
7:00 P. M. on March 4**

*Be sure and attend this sale as it will be one of the top
association sales in Kansas this year.*

For catalogs and information write:

BILL GODDARD, Penokee, Kansas
Sale Manager, or phone Morland 2220

Gene Watson, Auctioneer

Mike Wilson for Kansas Farmer

**GIBBS 15th ANNUAL
LARRY SIRED
PRODUCTION SALE
of Registered Herefords
FRIDAY, FEBRUARY 27
CLAY CENTER, KANSAS**

SELLING 25 FEMALES — 26 BULLS

GIBBS will sell 25 Head sired by Super Larry D. 95th (bred by J. S. Bridwell). OWEN will sell 16 head sired by Colorado Domino M. 58th (bred by Banning-Lewis). MYERS will sell 8 head sired by CK Dundy Lad 2d (bred by CK Ranch).

The cattle will include some Top Herd Bulls and Foundation Females that will satisfy a most critical Hereford breeder.
This group of cattle are in a thrifty condition but are not highly fitted, and will meet all state health requirements for shipment. These are thrifty cattle of the early-maturing sort, and are the ones that show the most size for age for feed consumed. Ages range from 7 months to 15 months, with exception of Lafe Myers offering of 8 bred females featuring CK bloodlines.

GUEST CONSIGNORS

George Owen Green, Kansas
Lafe E. Myers Clay Center, Kansas

Sale Starts at 1:00 P. M. at Clay Center Sales Pavilion, Clay Center, Kansas

For Catalog Write

SAM GIBBS, Manchester, Kansas

Auctioneer: Gene Watson

KANSAS STATE UNIVERSITY LIBRARY

Miss Daly... this is Mr. Zehner



STOCKHOLDER-OWNERS like Miss Daly know that about two-thirds of our profits have been plowed back in recent years for new facilities and equipment—from drilling rigs to delivery trucks. This increases the intrinsic worth of their investment in Standard Oil Company, and helps make possible better service and better products.



MR. ZEHNER, an accounting clerk, is one of the more than 50,000 employees of Standard Oil and its subsidiary companies. He has been with Standard Oil for more than six years and is backed by one of the finest, broadest employee benefit programs in any industry. He and more than 23,000 other employees own company stock. Mr. Zehner and his wife live in Whiting, Indiana.

MISS DALY AND MR. ZEHNER are members of the same business family, but they have never met.

Miss Grace Daly is a student at Loretto Heights College, Denver, and also has a sales position in a well-known retail store. Mr. Carl E. Zehner works at the Standard Oil refinery in Whiting, Indiana. Both own stock in the Standard Oil Company.

Standard Oil's stockholder family is so large—it has almost 120,000 members—and is spread over so much territory and embraces people in so many walks of life that it would be impossible for one stockholder to know all the others. Our stockholder family also includes many institutions such as colleges, hospitals, charitable organizations and insurance companies.

And, incidentally, the largest amount of our stock any one person owns is less than 1% of the total, and the largest amount any institution owns is less than 4%.

Last year the investments of our stockholder-owners helped provide more than 50,000 jobs, more than a quarter billion dollars in employee wages, salaries and benefits, and more than 2,000 useful petroleum products at reasonable prices.

These share-owners in American business have confidence in a steady return on their investment. Standard Oil has paid dividends for 59 consecutive years. Last year dividends had a value equal to \$4.02 per share—the return to our stockholders for the use of their savings.

Standard Oil Company



MEET ANOTHER stockholder—Mrs. James C. Graves, a widow, of Saginaw, Michigan. Dividends from Standard Oil stock help to make life more comfortable for many persons who depend on investment of their savings for income. Incidentally, more than half of our individual stockholders are women.



MEET ANOTHER stockholder—Children's Mercy Hospital of Kansas City, Missouri. This hospital uses its Standard Oil dividends to help provide medical care for about 3,500 children a year, three of whom are shown here with nurse Dolores G. Turnage. Many such institutions depend on dividends to help defray expenses.



MEET ANOTHER stockholder—Standard Oil Agent B. J. Talge of Erskine, Minnesota, who is delivering oil to W. E. Supernois, a Standard Oil customer since 1895. Employee-stockholders like Agent Talge have a double reason for giving all their customers the best possible service—the kind that keeps old customers and wins new ones.