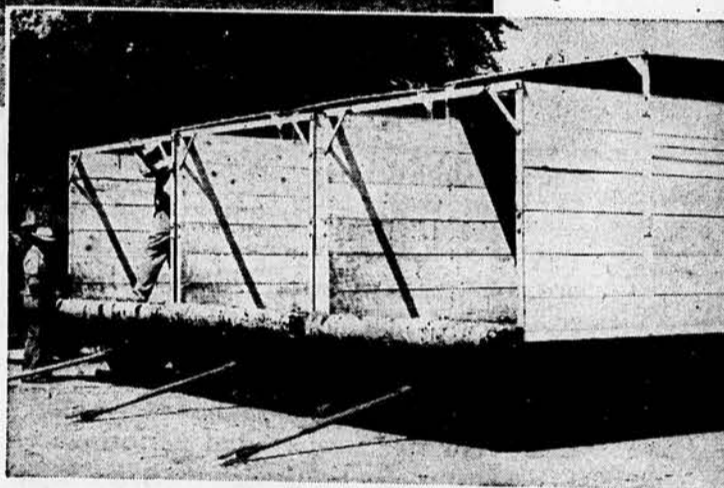


# Kansas Farmer



**THIS SELF-FEEDING BARN** on Homer French farm, Kingman county, holds 40 tons of dried chopped hay that is cured with a blower.



**THESE CHOPPED-HAY TRAILERS** can be converted to silage wagons by removing top half of sideboards. They are used by Frederick Warnken for both jobs on his farm.

## Getting the MOST out of your HAY

Here's easiest way of handling it from field to feeding, say these 3 men from experience

**U**SING your barn as a self-feeder for chopped hay is the easiest method of handling this important crop, say a Kingman and 2 Reno county farmers. Two of these farmers, Homer French and Walter Peirce, use blowers to cure hay in the barn. The third, Frederick Warnken, uses homemade gravity flues to carry off excess moisture in the hay. Here's how these 3 farmers handle their hay.

Homer French built his pole-type self-feeding hay barn in the spring of 1952. It is 26 by 36 by 18 feet with a 6-foot-square slatted wind tunnel running down the center lengthwise. Two 21-inch squirrel-type blowers are used to put 21,000 cubic feet of air thru the hay every minute at 1 1/4-inch static pressure. The blowers are powered by a 7 1/2-horsepower electric motor.

[Continued on Page 32]



**BLOWERS FOR CURING HAY** in the French hay barn are controlled by a magnetic switch timed by a clock that allows 2 "ons" and 2 "offs" each 24 hours.

- **Toughest Corn Problem of 1953** . . . . . Page 6
- **When 10,000 Future Farmers Meet** . . . . . Page 14
- **Just Right for the Cookie Jar** . . . . . Page 26

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The truck tire that takes hold and moves the load in mud, in snow, or on wet or icy roads.



**Town & Country**

The greatest mud, snow or ice passenger tire ever built; a highway tire as well as a traction tire.



## Hoppers Could Be Serious Next Year

Local infestations of grasshoppers are reported to have done considerable damage over the state. Not entirely removed as a threat to this year's crops, they could be a serious problem next year with favorable weather conditions.

This year's population could mean a heavy infestation next year. An answer to the threat is given in one sentence taken from a USDA bulletin.

"It has been demonstrated that if all infestations in a neighborhood are reduced to less than one grasshopper per square yard, further control measures will not be needed for several years, unless the fields become reinfested thru migrations."

Four insecticides have given satisfactory control in the past. Aldrin is the lowest costing and is applied at the rate of 2 ounces per acre. Toxaphene gives control over a longer time and also kills more kinds of insects. It is applied at the rate of 1 1/2 pounds per acre. Chlordane at 1 pound per acre and heptachlor at 4 ounces per acre are listed in USDA's Grasshopper Control leaflet. These are to be applied in as little as 1 gallon of oil spray per acre for adult grasshopper control.

## Hold Farm Forum At Manhattan

A farm policy forum is being sponsored by Kansas State College, October 5 and 6, at Manhattan. It will stimulate discussion of farm policy issues by providing recognized speakers on such agricultural problems as price programs, free and administered markets, use of agricultural resources, farm income and others. Each person will have a chance to present his ideas in a discussion group. Plans are for 15 persons at each of 40 conference tables.

## Move Drouth Cattle

Railroad members of the Western Traffic Association have provided reduced rates for moving livestock from designated drouth areas to grazing in certain states. Emergency rate will apply to carload lots and will be 100 per cent of the outbound commercial rate with free return, making a 50 per cent round-trip rate. Local USDA drouth committees are handling details.

## Joins WIBW Staff

Wilbur Levering, Shawnee county agent, has resigned to join the staff of Capper Publications, Inc., Topeka. He will serve on the staff of Radio Station WIBW, working as associate with Wes Seyler, farm service editor. He joined the staff October 1. Mr. Levering, a 1949 graduate of Kansas State College, also has served as Elk county agent.

## KANSAS FARMER

Continuing Mail & Breeze

ARTHUR CAPPER... Publisher (1893-1951)  
 121-123 West 8th St. Topeka, Kansas  
 Vol. 90, No. 19

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 Carl Eiche... Associate Editor  
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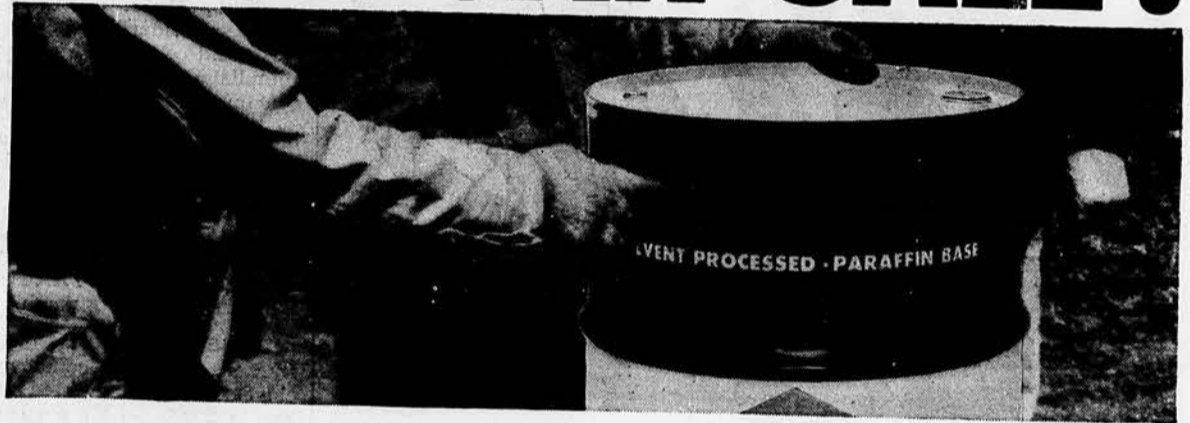
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**It's Like Making Money.**—All you do is order the D-X Motor Oils, greases and lubricants you'll need between now and next summer. Your D-X Farm Serviceman passes on to you savings made possible by quantity buying.

**These Savings are Yours** in addition to all the other advantages of buying during the Giant D-X Pool Car Sale: protection against price increases, deferred payment, plus the D-X money-back guarantee of satisfaction and the Giant Difference of Extrinol, the "wonder drug" for lubricants.

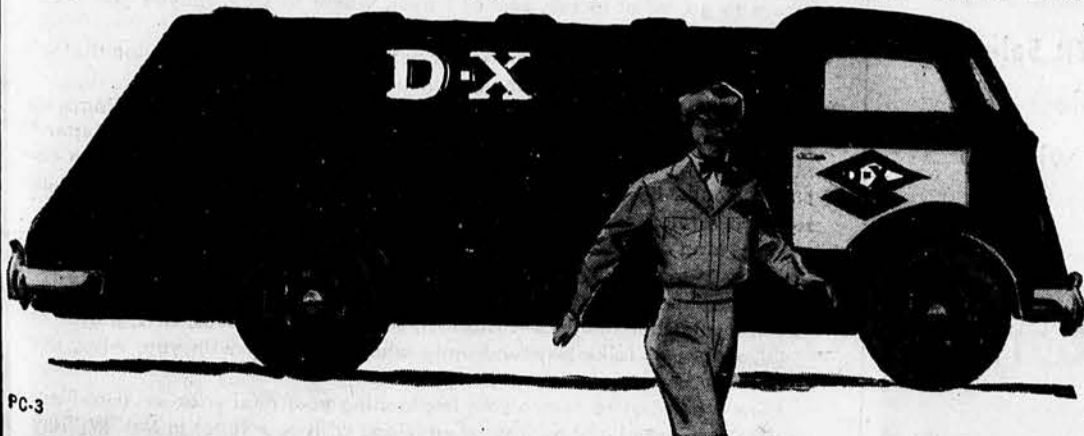
**You Must Order Now.**—So don't wait. Sale ends November 15. You may have delivery now—up to November 15—or anytime between Jan. 1 and May 31, 1954. Call your D-X Farm Serviceman today!

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Plant PIONEER—and you can be sure it will wring out every possible bushel that soil and weather will permit. See your PIONEER Salesman TODAY. Let him help you select the PIONEER Variety—or Varieties—that will do best on your farm.



**Thomas County:** Mr. and Mrs. William Ljungdahl are building a new home on their farm northwest of Menlo. They have a herd of registered Angus cattle.

**Thomas County:** Mr. and Mrs. R. H. Phelps have completed a concrete septic tank for their new home north of Colby. They've done most of the work themselves on their new home.

**Thomas County:** Mr. and Mrs. A. B. Cogdill are remodeling their farm home a few miles north of Menlo.

**Reno County:** Joe McKenzie, Rt. 4, Hutchinson, took advantage of the dry spell last year and dug a 40-foot by 60-foot water hole in a low place in the sandhill pasture. It came in handy this summer. Underflow keeps the water fresh and cool. Mr. McKenzie has accomplished his goal of more uniform grazing over pastureland.

**Russell County:** A White Rock hen belonging to Mrs. John Bridges, of Fairport, produced an egg that is the largest I've ever seen, writes Mrs. Elmer Creekpaum, Fairport. "It weighs 7 ounces and 3 grams, measures 8¼ by 9¼ inches around." Mrs. Bridges feeds nuggets and laying mash.

**Hamilton County:** Floyd Hummel, Syracuse, planted some yellow sweet clover that was harvested by Paul Johnson in 1926! To his surprise, a fairly good stand of clover grew in that field.

**Elk County:** Russell Parsons, rancher east of Howard, in working with D. D. Holland, SCS work unit conservationist and the Elk County Soil Conservation District, recently constructed 2 new stock ponds with equal drainage. One pond is in an overgrazed pasture, the other in a pasture with an adequate stand of native grass.

After a 2-inch rain the pond with the grass cover caught little or no water while the pond in the overgrazed pasture with sparse cover was half full after the rain.

**Elk County:** Glenn Chamberlain, Severy, co-operating with the County Extension Council, used the complete soil test and fertilizer to its fullest advantage this year on his oats crop. Three fertility plots were set up after a soil analysis was completed on a field

that had been in row crops in 1952.

The plot with the full soil (250 pounds of 15-15-0) yielded 69.9 bushels of oats. The plot that had 100 pounds of 45 per cent phosphate applied yielded 37.7 bushels. But the plot with no fertilizer yielded only 26.6 bushels.

Soil test and fertilizers meant a difference of 43.3 bushels of oats, or a profit of \$23 per acre above cost (figuring oats at 80 cents and fertilizer at \$70 a ton).

**Elk County:** "You can really see the difference where we sprayed with 2,4-D," says Tom Baughman, partner in the O and B Ranch, Elk Falls. Brushy pasture was aerially sprayed with 2,4-D about June 14 to control a heavy growth of sumac, skunkbrush and rock weed. The 450 folks on the annual livestock tour in July agreed readily with Mr. Baughman that they could tell to "the line" where the 1 pound of 2,4-D and 3 gallons of diesel fuel had killed rockweed and brush.

"That \$3.50 cost per acre was the best investment we could have made," Mr. Baughman says, "because it will mean more grass to us next year."

**Washington County:** Victor Kruse, of Barnes township, seeded 3½ acres to brome grass for waterways. Last spring he put on 300 pounds of ammonium nitrate fertilizer per acre. This summer he harvested 1,680 pounds of brome seed and 11 tons of brome hay. Seed sold for \$168 and hay for \$181.50. A total income of \$349.50 from 3½ acres!

Grassed waterways are used in many Kansas fields to carry away excessive water so it won't cause erosions. Well maintained and properly handled waterways can be the most productive land on a farm.

**Nemaha County:** Louis Buessing, Baileyville, is trying a new and unique idea in the county. He's constructing a concrete wall in a trench silo. The method is somewhat different. He is pouring walls on the floor of the silo in 5-foot by 10-foot sections. After walls are dried they are pulled into place by a tractor and manure loader. He thus eliminates use of expensive forms. Many neighbors have watched this activity, as there is a lot of interest in inexpensive silos.

### HELP FOR YOUR NEXT VACATION

Remember all the interesting articles Mrs. Francis R. Williams, who lives on a farm in Marshall county, has written for *Kansas Farmer*? We hope you followed her travels all over the United States and into Canada. More still to come.

A good many folks have written Mrs. Williams asking questions about where to go, what to see, cost of travel, where to stay. Maybe you would appreciate plans direct from her.

Do you want help in planning your next vacation trip? A vacation that will fit your family, your pocketbook, your time?

If you are interested in this type of service, perhaps Mrs. Williams can plan the most enjoyable vacation trip you ever had. Simply write a letter to Mrs. Williams, *Kansas Farmer*, Topeka, Kan., telling where you wish to go—North, South, East, West. Time you have—days, weeks or months. When—summer, winter, fall or spring.

What kind of trip—camping in national or state parks? Trailer travel? Will you stay in motels? Will you cook some or all of your meals, or will you eat in restaurants or hotels?

What are your interests—historical, scenic, sports, foods, arts, museums? Give ages of folks in your family who will travel with you. Also, state about how much you plan to spend.

Here is help, at no cost to you, in planning your next vacation trip. Please enclose a stamped and addressed envelope with your letter to Mrs. Williams.

Now  
**58\***  
drawbar  
hp!

Pulling the 15-foot McCormick No. 22-H plow, the new Super WD-9 tills up to 65 acres daily.



# NEW 6-plow McCormick Super WD-9 diesel

Here's super diesel power to pull a 6-bottom plow or equivalent load faster than anything else on wheels and save you up to \$700 yearly on fuel alone! In the field, you'll leave slower types of tractors in the dust. On the road, you can roll along at 15 mph.

## 20% gain in useful power

The smooth running 4-cylinder Super WD-9 diesel engine develops a maximum of 58\* drawbar hp—20 per cent more power to moldboard plow up to 30 acres daily, one-way an "eighty," stubble-mulch 45, drill 120 acres. All this, on only 3 to 3½ gallons of diesel fuel per working hour under average conditions.

## Double-Disc brakes give easy control for faster farming!

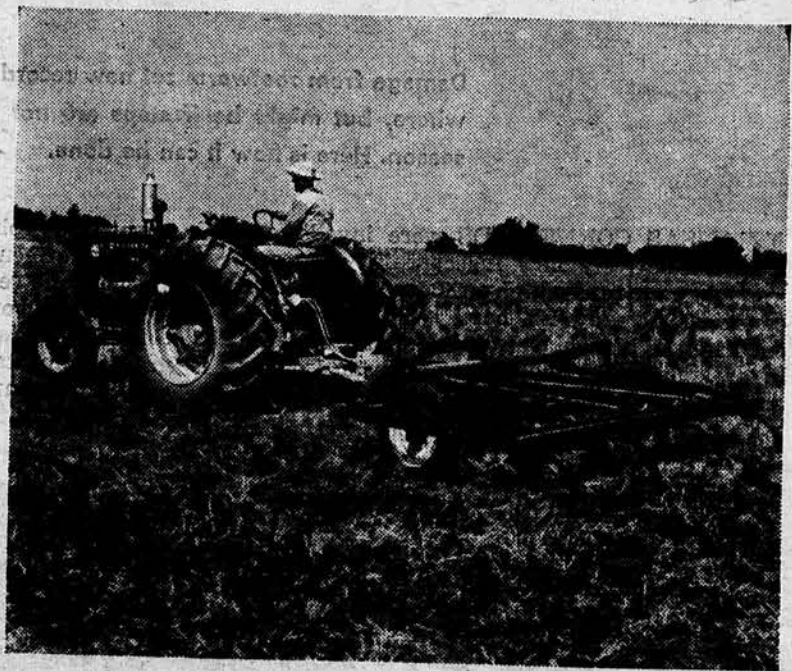
Never before could you get a tractor with all this power and speed and yet be so easy to operate. Sure holding, self-energizing double-disc brakes enable you to stop quickly, to make short turns *fast*—hold tractor and load surely on grades.

## "Live" Hydraulic power saves time to cover more ground!

The Super WD-9's hydraulic Remote-Control (special equipment) is "live." Its direct-connected, gear-type pump gives you constant, fast acting, two-way, clutch-free hydraulic Remote-Control of trailing implements whenever the engine is running—standing still or on the go.

See your IH dealer soon for a Super WD-9 demonstration. Prove to yourself that the big fast, new McCormick Super WD-9 will enable you to cut operating costs and time your field work for best yields. Compare Super WD-9 price, drawbar pull, and speed of getting jobs done with any other type of heavy-duty farm power.

\*Estimated—not officially tested



No. 4 Stubble-Mulch Tiller and Super WD-9

### Tie Down Soil, Keep Moisture In!

Use the McCormick No. 4 manual or hydraulically controlled stubble-mulch tiller and Super WD-9 to ready 60 acres daily to hold water like a sponge. Or chisel hard ground a foot deep with this outfit. A heavy-duty tool bar for the No. 4 lets you chisel, subsoil, furrow, ditch, bed, list, check or field cultivate with one carrier!

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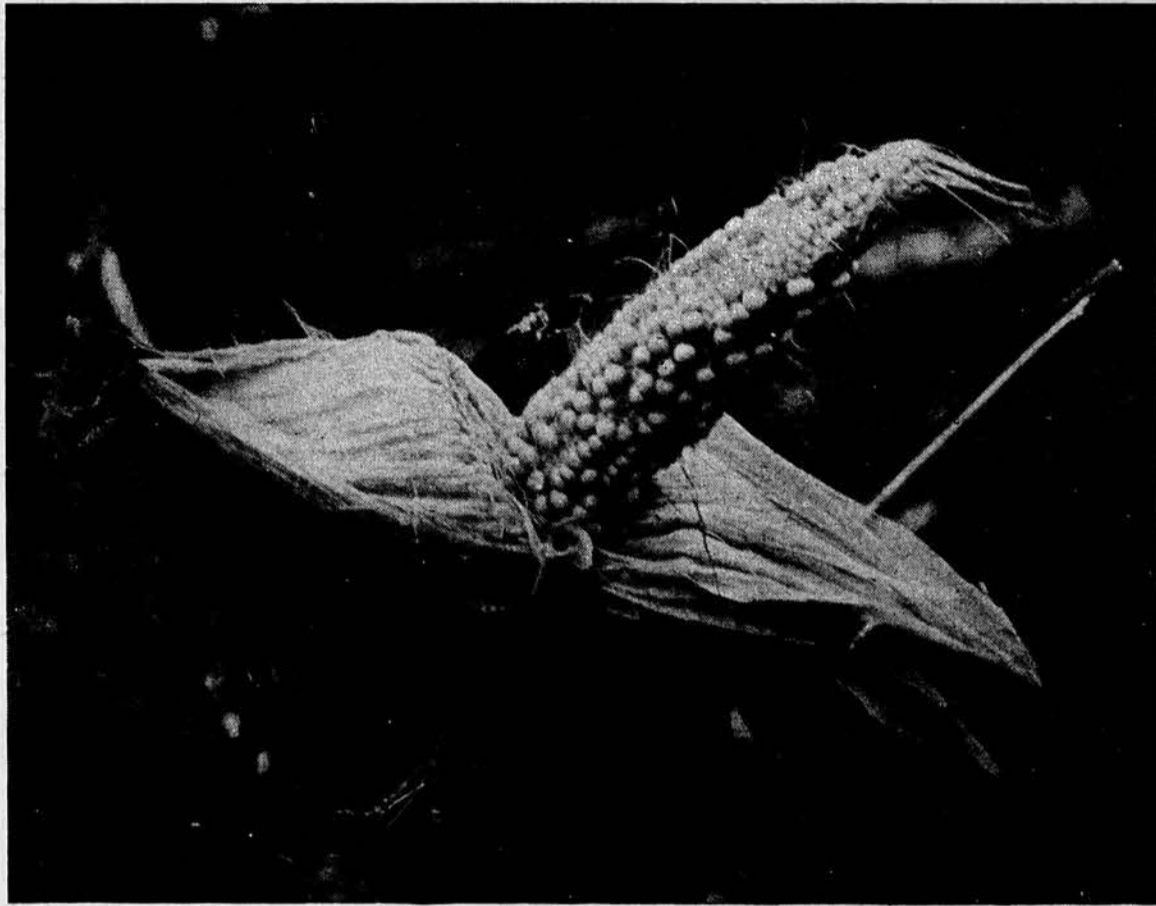
Name \_\_\_\_\_

Address \_\_\_\_\_

I farm \_\_\_\_\_ acres; principal crops \_\_\_\_\_

My IH dealer is \_\_\_\_\_





**BEETLE DAMAGE** looks like this. Corn rootworm beetles feed on silks, cutting them off before pollination can take place. Grain fails to form on cob and little if any corn crop is realized. Ears with as few as 25 or 40 kernels of corn are not uncommon in beetle-damaged fields.

**DAMAGED FIELDS** look like this. Without adequate root system, plants fall over and growth is stunted. Lack of moisture intensified damage in areas where rootworm infestations were worst. Estimates of damage in Republic and Jewell counties ran from 30 per cent attributed to rootworms alone. Extent of damage ran from almost total to none at all.



# "Toughest Corn Problem of the Season"

By CARL EICHE

Damage from rootworm set new record in 1953; loss not heavy everywhere, but might be if steps are not taken to control this pest next season. Here is how it can be done.

**KANSAS CORNFIELDS** were invaded by a relatively new insect this year, and damage ran as high as 30 per cent in some counties. Already hit hard by dry weather, counties in North Central Kansas suffered heavy damage by the corn rootworm. County agents report farmers were more concerned

about this problem than any other; more than about allotments, prices or drouth. They were alarmed and seeking help.

Corn rootworm is no stranger in Kansas but this is the first year damage from it was so great. Important economic damage was reported in an area roughly bounded by Norton county on the west, Ottawa county on the south, Marshall county on the east and extending well into Nebraska.

Kansas State Entomologist C. C. Burkhardt has found the insect in 44 Kansas counties and

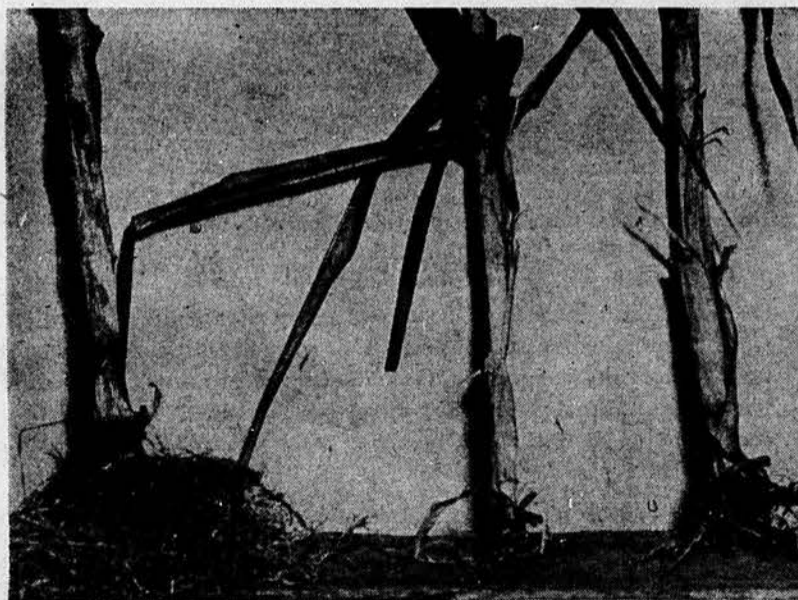
maybe in 4 more. Damage was not heavy anywhere, but it might be by next year if steps are not taken to control the insect.

Most severe damage this year seems to be centered in Jewell and Republic counties. Damage attributed to the rootworm alone has been estimated to be at least 30 per cent in the counties. Some fields have suffered almost complete loss and others have not been hurt at all.

Evident damage so far has been from worms cutting roots of plants. Beetle damage to pollination of corn will run much higher. Bee forms of the insect reduce or prevent pollination by eating fresh silks. Hot, dry winds retarded pollination and beetles further damaged the ears of corn.

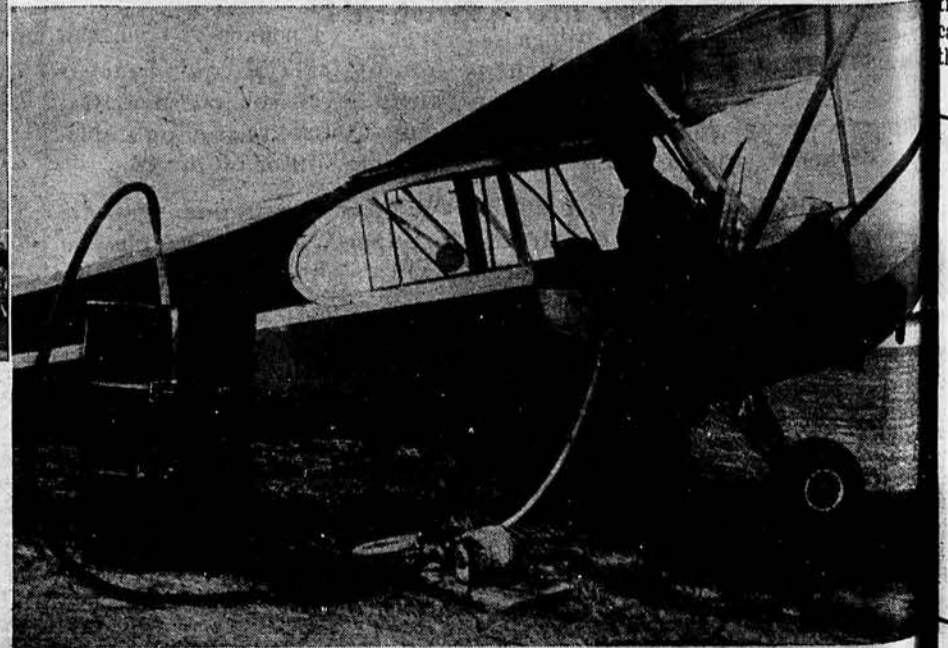
Winds and rain first brought root damage to the attention of farmers. Worms had eaten and tunneled into root systems of the corn and winds blew the stalks over. With little moisture available to plants and a reduced root system to absorb moisture, plants often were stunted in growth or completely dried up.

Three species of corn rootworms can be found in Kansas—the southern, northern and western. Worst of the [Continued on Page 7]



**EFFECTS** of corn rootworm activities are clearly evident in this picture. Healthy root system on plant at left was in field of corn that was not planted to corn the previous year. Root systems on other 2 plants were badly damaged by rootworms. Notice both fibrous and brace roots are affected.

**SPRAY PLANE** is being loaded with DDT before taking off by Doyle Dillon, Mankato. Plane's 40-gallon tank is filled with electric pump from barrel at left. Mr. Dillon, in this plane, was probably the largest sprayer of corn rootworm in the country this year. His records show he sprayed more than 2,600 acres.



# Kansas Farmer

## News and Comment

### President Has Time for Youth

IMPORTANCE of farm youth will be emphasized October 12 to 15, with the silver anniversary convention of Future Farmers of America in Kansas City. In commemoration of the 25th anniversary of this great organization, Postmaster General Arthur E. Summerfield has announced that 110 million FFA stamps will be printed and distributed.

Design of the stamp depicts a typical farm scene with rolling hills in the background. Featured in the central foreground is a Future Farmer, standing beneath a tree, viewing the scene before him. Wording on the flowing ribbon across the bottom of the stamp calls attention to the anniversary of FFA. Color of the stamp will be blue. You are sure to be interested in this stamp.

But that is just the beginning. Secretary of Agriculture Ezra Taft Benson has accepted an invitation to speak during the morning session, October 15. Another Cabinet member, Mrs. Oveta Culp Hobby, secretary of the Department of Health, Education and Welfare, will address the convention during the afternoon. To make the convention something to remember for all time to come, President Dwight D. Eisenhower will speak before the great meeting at 8 o'clock on the evening of October 15.

When even the President of the United States takes time out of a tremendously busy schedule to appear before farm youth, that should indicate to all the rest of us how important is the work of these farmers of tomorrow. Undoubtedly, you are entirely familiar with Vocational Agriculture work and the Future Farmers of America organization in your community. This event is a big thrill for youth.

Some 10,000 Future Farmers are expected at the convention from all sections of the United States, Hawaii and Puerto Rico. A silver anniversary pageant, the national public speaking contest, and presentation of awards to hundreds of Future Farmers—including Kansans—whose achievements have been outstanding, will round out the full 3-day program.

### Threat to Your Health

ANIMAL DISEASES which can be transmitted to human beings are now becoming of greater importance as a public health problem, the American Veterinary Medical Association believes.

Reason these loom larger on the public health horizon, AVMA said, is the notable reduction in diseases which are spread from man to man. A subcommittee of the World Health Organization recently listed 86 animal diseases which can be transmitted to human beings, several of them serious problems.



"Give me a half-hour, Ed—I got wrapped up on an issue with my wife about china that I'd like to finish."

AVMA said leptospirosis, rabies, anthrax, canine hepatitis, foot-and-mouth disease and salmonellosis in poultry are 6 of the major animal disease threats to human health in this country. Brucellosis, trichinosis, psittacosis and encephalitis also are growing disease problems in many areas. Both the medical and veterinary professions are devoting ever greater attention to the human and animal disease relationship.

Campaigns aimed at stamping out these disease problems were urged as offering the only complete solution.

"Farmers will not only protect the health of their families, but of the entire public by co-operating in programs designed to eliminate these diseases," AVMA officials said.

### Future Full of Promise

IT IS ENCOURAGING to hear what men have to say, like True D. Morse, Undersecretary of Agriculture, speaking before the National Fertilizer Association. Said he: "The future of agriculture was never more secure and full of promise. Efficient farmers will continue to prosper—the future for farming is dependable, now and for the long-time future."

"There are those who take a dim view of what is ahead because we are again struggling with problems of managing so-called surpluses. We should be thankful we have this abundance—instead of the hunger and meager existence that plagues three fourths of the world's population."

Mr. Morse served as United States delegate in negotiations renewing the International Wheat Agreement. He was repeatedly reminded during the conference that the problem of millions of people in many of the 46 nations represented is not one of how high the level of diet will be—but a question of whether the people will have any diet.

"Surpluses should not be dealt with as problems—but as opportunities," said Mr. Morse. . . . "Abundant production gives the opportunity to expand markets—both at home and abroad."

Backing up his "Solid Future for Agriculture" idea he emphasized such facts as these: The rapid population growth in the United States continues—159 million people now, 190 million by 1975. Every 8 seconds a baby is born, every 2 minutes an immigrant moves in; net gain over those we lose and those who leave is one person every 12 seconds. Every 12 seconds there is thus created for farmers a demand for almost 1,600 more pounds of food per year. Every 12 seconds our farms, to keep up with the demand, must step up production—68 pounds of beef and veal, 72 pounds of pork, 4 pounds of lamb and mutton, 186 quarts of milk and cream, 8 pounds of cheese, 17 pounds of condensed and evaporated milk, and 16 pounds of ice cream. "Such growth in markets helps strongly to insure future farm prosperity," Mr. Morse added.

Will these new citizens—the net gain of one person every 12 seconds—be able to find jobs, buy beef, pork, milk, lamb? For assurance on that side of the picture take a look at what one of our leading industrialists said in a recent speech to a university graduating class. Speaking was Roger M. Blough, Vice-chairman of United States Steel Corporation: "In no other hour in the world's history could you have picked a better time to start wrestling with more really fine opportunities or more really dangerous problems crying to be solved." Among 15 examples he cited as to why this country now offers more opportunity than at any other time in history, he mentioned these:



"The person who has the hardest time keeping up with the Jones' is Mrs. Jones."

"In time of trial," inquired the speaker, "What brings us the greatest comfort?" "An acquittal," interrupted a man at the back of the auditorium.

"To many motorists, a boulevard is the shortest time between traffic cops."

"Man was given 5 senses—sight, smell, hearing, touch, taste. The successful man has 2 more—horse and common."

"Sap indicates vigor in all trees except the family tree."

"If a wife keeps her husband in hot water all the time she shouldn't complain if he gets hard-boiled."

"Who's your favorite author?"

"My dad."

"Your dad? Why, does he write?"

"Yes . . . . checks!"

The plastic industry, an infant, has expanded 600 per cent in the last 10 years.

Developments in electronics in recent years with inventions such as television and radar indicate the industry still is in its early stages.

The chemical industry never stops growing.

New types of agricultural implements need to be developed and manufactured to feed our growing population.

Mining and oil industries now are operating at a peak, but demands of the future will call for greater expansion.

Home appliances offer a wide field for further development.

Atomic energy, the baby of them all, has only started to be used for peacetime human usefulness.

Education has made great strides with a bright future in store. There now are 50 college students for every one student 75 years ago.

Medicine has increased the average life span from 40 years to 67 in the last 75 years, but the field still is faced with many problems.

Religion has moved forward, yet there still is an opportunity to reach many more in the "shadows of doubt, despair and distrust."

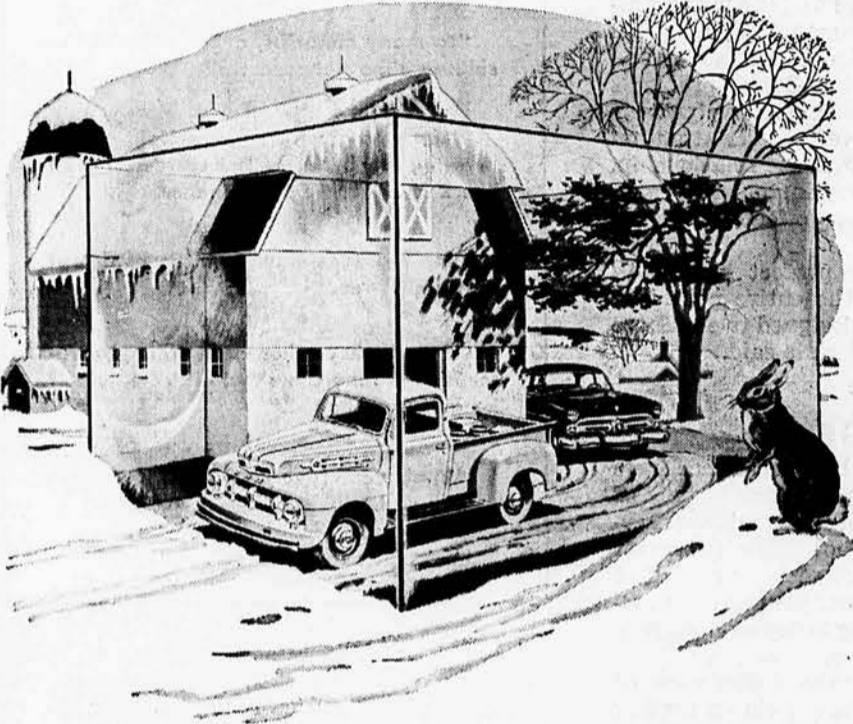
The steel industry still is in its swaddling clothes and there are thousands upon thousands of opportunities for imaginative, searching minds.

Key to all future progress is the welfare of agriculture—we are sure Mr. Morse and Mr. Blough will agree with this. It will need the best-qualified people to keep it operating as it should in that important position.



"Humph! In my day, young girls didn't sit around waiting for the right man to come along! We took what we could get!"

# Your Ford won't even know it's winter!



... if you use parts you can trust!

When you get your Ford ready for winter... and find that replacements will add to its zip... insist on Genuine Ford Parts like the three below. Here's why they make a big difference:



Ford batteries are tested to start at 20 below zero. They're also shake- and impact-tested for durability; cycled from full charge to full discharge hundreds of times for long life. This testing by Ford engineers before approval for manufacture is your assurance that a Ford battery will keep your Ford car or truck ready to go at all times!



Ford oil filter cartridges are Track Tested in Fords in tests of thousands of miles. Both full-flow and by-pass filters are designed to remove dust, carbon particles, and other oil contaminants dependably and efficiently from your oil *without* removing useful oil additives!

Ford spark plugs are manufactured to exact Ford specifications. They're designed and balanced to your Ford's ignition system to give your engine smooth performance and high gasoline mileage. And, like all Genuine Ford Parts, they're made right to fit right in your Ford!

Keep your Ford all Ford

Available at all Ford Dealers and the selected independent garages where you see the Genuine Ford Parts sign.



Article No. 2 in special series on . . .

## What We Know About Fertilizers And How They Increase Production

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

**Q. How is the plant-food content of a mixed fertilizer listed on the bag?**

A. Every bag of mixed fertilizer sold carries on the bag or on a tag a series of 3 numbers giving the guaranteed percentage of nitrogen, available phosphoric acid and water soluble potash in the fertilizer. These numbers designate the analysis of the fertilizer.

For example, a 100-pound bag of a 10-10-10 fertilizer is one that contains 10 pounds of nitrogen, 10 pounds of available phosphoric acid and 10 pounds of water soluble potash. Likewise, a 10-20-0 fertilizer contains 10 per cent nitrogen, 20 per cent available phosphoric acid but no potash. By the same token a 0-20-20 fertilizer carries no nitrogen but contains 20 per cent of available phosphoric acid and 20 per cent of water soluble potash. Percentage of plant food is always listed in same order.



M. H. McVickar

**Q. Is manure a fertilizer?**

A. Manure is certainly a fertilizer. On the average, a ton of fresh manure contains about 10 pounds of nitrogen, 5 pounds of phosphoric acid and 10 pounds of potash. To put it a different way, a ton of manure contains the same amount of plant food furnished by 100-pound bag of a 10-5-10 chemical fertilizer. It should be pointed out, however, that in addition to its plant-food content, manure also furnishes valuable organic matter loaded with beneficial bacteria.

**Q. How much chemical fertilizer do American farmers use?**

A. In 1952, our farmers used more than 20 million tons of commercial fertilizer. This means, on the average, each cultivated acre received about 85 pounds of fertilizer. Of course, many fields received no fertilizer while others were given heavy applications.

**Q. Will there be more fertilizer available to farmers next year?**

A. There will be more. The long-time outlook is bright. Many new fertilizer plants are under construction so quantities available by 1955 should be much greater. Of course, demand for fertilizer is increasing and it may keep pace with the increased production.

**Q. How can fertilizers best be stored on the farm to avoid "caking"?**

A. Several things can be done to cut down on "caking." Bags should never be piled on dirt or concrete floor. Instead, build a platform out of boards or poles high enough to keep bags from touching concrete or dirt. Next, pile bags in tiers not over 8 or 10 high. Leave space between tiers of bags.

**Q. How much plant food is utilized by a good corn crop?**

A. A 100-bushel corn crop takes from the soil about 130 pounds of nitrogen, 55 pounds of phosphoric acid and 110 pounds of potash. Since the soil "fixes" a portion of the plant foods supplied by fertilizers, especially phosphoric acid, this amount of plant food is equivalent to more than that supplied by 1,200 pounds of a 10-10-10 fertilizer. About 78 pounds of nitrogen, 36 pounds of phosphoric acid and 26 pounds of potash are in the grain of a 100-bushel corn crop.

## Sweet Potato Growers Who Make Good Hill Seed Selection Get Quality Crop

By WILLIAM G. AMSTEIN, Kansas State College

GARDENERS, for the most part, appreciate the importance of good seed. Not one out of a hundred farmers today use open pollinated seed corn. Growers want hybrid seed corn because they have found it usually produces more profit per acre. With Irish potatoes, most of the crop is grown from certified seed, purchased each year from Minnesota, and the Dakotas. Experience has proved the value of using certified seed in growing Irish potatoes.

What about sweet potato growers? Do they have the proper appreciation of the value of good seed? Sweet potato growers, for the most part, apparently do not fully realize just how important it is to use good seed. In most cases, growers save the small strings from the previous year's crop to bed for sprouts for the next year's sweet potato crop. This can mean they are constantly reducing their yield of marketable potatoes produced per acre. A string from a hill of potatoes will produce a high percentage of strings this year. This practice eventually will result in very poor yields, if no attention is given to seed selection.

Best way to increase yield and quality of the sweet potato crop is to make hill selections at digging time. Making hill selections is a rather slow and tedious job. It also comes at a busy time. However, the time spent making hill selections is the most important time spent. The procedure is as follows:

First—Plow up a row.

Second—Have someone go along the row and place the potatoes produced in

each hill together. This is very important. Keep each hill intact if hill selection is to be effective.

Third—Go down the row with a bushel basket and select the high-producing hills of sweet potatoes that are smooth, free of disease, and have good external color. Save no hills that have less than 6 U. S. No. 1 grade potatoes. Take a knife and check the inside color by cutting both ends of one or two potatoes in each hill. Select only high-colored seed. This cutting only need be a small chip off of the potato that will quickly heal after potatoes are placed in storage. Store these potatoes in the most favorable place in the storage house. Next spring use these potatoes to produce plants for the 1954 crop. Before taking the sweet potatoes off the vine, examine the stem for a black streak. If stem rot is present, do not save sweet potatoes for seed from these hills. If this practice was followed by all growers, acre yield and quality could be doubled in the next few years. A higher percentage of the crop would be marketable potatoes, and there would be far less shrinkage in storage. Growers who are now following these practices are producing over 300 bushels of U. S. No. 1 sweet potatoes.

Prices received for sweet potatoes are not likely to be as high during the next few years. It is desirable to make hill selections if we expect to continue to realize a profit from the sweet potato crop. Make hill selections this fall if you plan to continue to grow quality sweet potatoes at a profit.





We're proud, this month, to introduce you to Moorman customer Lyle Glover. Not only because he operates his dairy herd on a strictly business basis, but also because of his many contributions to the life of his community. Mr. Glover is past-president of his Farm Bureau and is now its Organization Director. He is a member of the County Board of Education, County Chairman of his local milk producers organization and also Township Supervisor. He's the sort of a farmer we like to call "our customer!"

## MY RECORDS SHOW I SAVED \$1,224.86 ON MY FEED BILL WITH MOORMAN'S

—says Lyle Glover  
Livingston Co., Mich.

"My dairy herd is strictly business with me, and I try to make as much profit from my cows as I can," says Lyle Glover, Livingston County, Mich. "So, I keep a close check on feed costs. That's why I know my feed bill is considerably less—but I get more milk and my cows stay in condition better—when I balance their grain and roughage with MoorMan's Mintrate\* for Dairy Cows.

"For example: I fed Cow Mintrate all during 1951. My herd was one of 75 in the Detroit milkshed on which cost of production records were kept by Michigan State College. A summary of these tests by the school show I fed my herd of 22.7 cows for \$1,224.86 less than the average.

"This was a net savings on each cow's feed bill of \$53.96. The summary showed I fed 1,145 lbs. less grain and concentrate per cow; 1,169 lbs. less hay; 2,689 lbs. less silage, and the cows were on pasture 35 fewer days, than the average of the 75 herds. And, I got 164 lbs. more milk, \$60.69 more for milk from each cow than the average.

"Then, in the summer of 1952, I switched to another brand of feed for about 5 months. I kept a close check of feed costs, production, and also their condition. That change cost me money.

"When the summary was announced, I found my feed costs were \$31.92 more for each cow than the average—compared to \$53.96 less the year before. Production had dropped, too, during the time the cows were not getting MoorMan's, and they failed to keep in top condition.

"Of course I switched back to Cow Mintrate, and right away production and profits started back up again!"

Only part of the milk-making and body-building power in your homegrown grain and forage is skimmed off and used by a cow as it passes through her system. That's because grain and forage alone make an incomplete, out-of-balance ration—one that lacks certain proteins, minerals and vitamins.

But, add just one pound a day of highly-concentrated Mintrate for Dairy Cows, for each cow, and see what happens! Milk-making and body-building power is increased. And this, in turn, cuts your total feed cost. So, see your MoorMan Man. Compare your own feed costs and production records with dairymen who feed Cow Mintrate. Then—for GOOD RESULTS—switch to MoorMan's. If no MoorMan Man calls, write Moorman Mfg. Co., Dept. J4-10, Quincy, Ill.

# MoorMan's\*

(Since 1885)

\*Trade Mark Reg. U. S. Pat. Off.

MAKERS OF VITAMINIZED PROTEIN AND MINERAL CONCENTRATES. FARMERS NEED, BUT CANNOT RAISE OR PROCESS ON THE FARM

## HEY, TOO, MADE MORE PROFIT - WITH MOORMAN'S



Dean Taage, Cuming, Co., Neb., says: "We made a net profit of \$1,379.60 over feed costs on our average of 350 in only 9 months. We think that's pretty good, because profit of \$3.94 on each hen. But we couldn't have done without balancing our own home-grown feeds with MoorMan's Mintrate."



Harry Kueker, Saline Co., Mo., says: "Our second batch of hogs fed with corn and MoorMan's Concentrates—73 May pigs from 8 sows—averaged 234 pounds at 6 months and 10 days. Even figuring corn at \$2.00 a bushel, MoorMan's enables us to get so much good out of our corn that we figure 100 lbs. of pork only cost us \$10.34.



Protection of their young is instinctive with mothers of all animal species. Nowhere, however, is this mother protection more dramatically demonstrated than when the Grizzly Bear drives off a pair of treacherous coyotes about to attack her cubs.

## Protection At Its Best

No wonder so many motorists prefer the engine protection offered by AC Aluvac Oil Filter Elements. Just look at these features!

- **Microscopic filtration**—AC Aluvac removes sludge and dirt particles as small as 1/100,000 of an inch.
- **Maximum filtering area per cubic inch**—AC Aluvac has 10 times the area of ordinary elements.

- **No harmful chemicals**—AC Aluvac won't remove the detergents from heavy-duty motor oil.
- **Acidproof**—secret process renders AC Aluvac material resistant to acid, gasoline and water.

Never accept a substitute for this superior engine protection. Insist on genuine AC Aluvac every time you change your oil filter element.

Original Equipment on **BUICK**   
And Standard or Optional Equipment on CHEVROLET, CADILLAC, OLDSMOBILE and GMC



AC SPARK PLUG DIVISION  GENERAL MOTORS CORPORATION

### Does the Work of 3 Men!

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

Handles EAR CORN  
Small Grain  
Baled Hay

• Portable • Balanced  
• Double Trough • Custom Built

**HEAVY DUTY FEATURES**—14 gauge steel trough • 5 in. straight sides • No. 66 double chains • 18 in. across trough • 8 ft. spring lift drag hopper or gravity hopper (extra) • 4 ft. and 8 ft. sections for desired lengths.

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

With Value for FREE Literature and Prices **SAM MULKEY COMPANY** 1621 N18 Locust Kansas City 8, Mo.

### NEW BEAR CAT COMBINATION Grain and Roughage Mill also Ensilage Cutter



No. 4A **Trailer Mounted for Power Take-off** Has traveling feed table and is especially designed for grinding or chopping larger quantities of loose or baled hay and roughage of any kind. Furnished either with or without Trailer Mount and Power Take-off. Both cutter knives and heavy swing hammers—it grinds any feed, green, wet or dry, snapped or ear corn, roughage bundles or baled flakes, with ordinary farm tractor—and no monkey business. Get full information on real honest-to-goodness grinding outfits. Write

**Western Land Roller Co., Dept. 132** Hastings, Nebraska—Manufacturers

## GRAIN DRYING SOLVES PROBLEMS

Equipment advances harvest, lessens weather and storage hazards, improves efficiency of machinery, and permits profitable changes in cropping system



**THIS IS EQUIPMENT** that speeds harvest for George Rush. Grain in one bin is dried while the other is being filled. When moisture is lowered to 14 per cent, batch is transferred into permanent storage. Dryer unit and fuel tank are in front of third bin from left.

**YOU CAN'T JUDGE** the value of grain drying by bushel costs alone. That's what George Rush, Doniphan county, says. The fuel, the power and labor required are minor items in his list of advantages.

Would you like to get a stalk field into wheat to sidestep corn after corn or oats after corn? Drying equipment enables Rush to do just that. He can start picking corn when the grain contains 28 to 30 per cent moisture after it is shelled, dry it down to storage or commercial tolerance as it is picked. When the field is cleared he can work down a seedbed and get wheat planted at the normal time—by fly-free date.

"If I waited until the corn dried naturally in the field, it would be the last of October most years," said Rush, "and that's just too late for wheat sowing. By picking early and drying the grain, I can get away from growing oats, which everybody knows is less profitable than wheat."

### Picker Will Do Better

Here's another advantage. A picker will operate more efficiently in sappy than brittle corn. There is less wastage from dropped ears and shelled corn. Such loss is much greater than most farmers realize. Careful check during a mechanical corn picking contest in Illinois revealed 5½ to 24 bushels on the ground that pickers didn't get. The fault wasn't with the pickers—rather in adjustment and operation. Also, some fault was in condition of the corn. Some authorities believe average loss for all conditions and any season may be up to 10 or 12 bushels an acre. But that's not in sappy corn.

So Mr. Rush has a minimum loss. Likewise his early harvest escapes later

storms that may put stalks down. He gains at least 3 weeks in harvest and stalk-field wheat seeding. Some farmers are using the dryer to get new corn on the market, before the harvest season slump, at the old corn price.

Mr. Rush's drying equipment consists of a portable unit, adapted to moving from bin to bin, crib to crib or mow to mow. It may also be used on wagon dryers. The unit was originally designed for burning fuel oil. But Mr. Rush adapted it to LP-Gas and so now can switch to either fuel, depending on price or convenience.

He made a round metal bin with false floor into a batch dryer, which holds 400 bushels. Warm air is blown into the space beneath the grain by the customary flexible tube connection from the dryer's heat chamber. About 8 hours are required to dry 28 to 30 per cent moisture corn, to the 14 per cent safe-keeping content.

By operating the outfit 24 hours a day he is able to dry all the corn picked during the day. Grain is elevated into permanent storage at 14 per cent.

One wet year he dried 1,500 bushels of wheat. The equipment enables him to harvest wheat earlier in the morning, later in the evening or sooner after a shower. This gets the crop in sooner, and lessens the period over which it would be subject to storms. It also increases acreage capacity of the combine, for home-farm or custom harvest.

### For Small Children

By making a game of teaching a child to gargle, he will not connect gargling with medicine and rebel against it when it is necessary to gargle during an illness.—Mrs. W. F. T.

### TOOK CARE OF 60 HEAD



**THIS AUTOMATIC** waterer placed in fence line between 2 lots took care of 60 head of beef and dairy cattle last winter for Howard Truelove, Coffey county. Mr. Truelove, center, shows how tank is heated by electric button in center compartment. Looking on are his son, Howard, Jr., and Bryce Orr, county agent. Water for tank is supplied by a pond. Welded metal strips on north side of tank provide some protection for cattle.

# NEW— Six-Cylinder Five-Plow

# CASE DIESEL "500"

# POWER STEERING



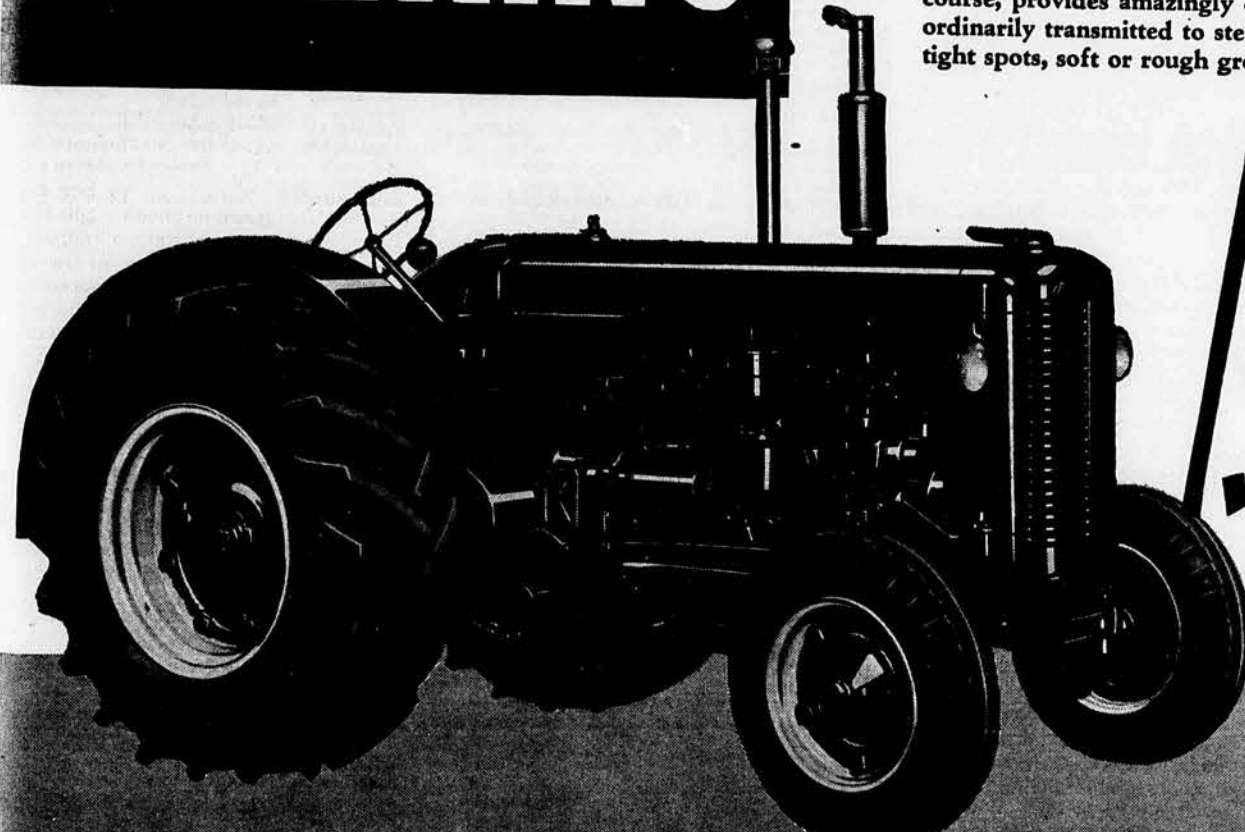
Touch a button and it starts on DIESEL fuel—no auxiliary gasoline engine, no other fuel. Direct electric starting by 12-volt system. Cold-weather primer uses ether-filled capsules.

"Powrcel" controlled combustion provides prolonged piston pressure to produce DIESEL power and economy with amazingly smooth operation and clean burning at all speeds and loads.

Single-plunger injection pump with distributor feeds fuel evenly to all six cylinders at all loads.

Six-point filtering system provides extra protection against main cause of DIESEL troubles—dirt in fuel. Tank-cap breather filter, filler screen, and water trap besides three stages of fuel filtering.

Power steering with its hydraulic "muscles" keeps the wheels on course, provides amazingly easy steering, absorbs shocks and jolts ordinarily transmitted to steering gear. Reduces strain on driver in tight spots, soft or rough ground.



✓ Easy to Start...  
✓ Easy to Run...  
✓ Economical to Operate

Here is the tractor to help you meet the three-fold challenge of rising farm costs, softening farm prices, and scarcity of good farm help. This new Model "500" Case DIESEL gives you the fuel economies of DIESEL operation, plus economies in care and maintenance never before achieved in a DIESEL tractor.

It's built with the sturdy simplicity you naturally expect from Case . . . has all the Case advantages of Constant Power Take-Off, Dual Valve Constant Hydraulic Control, Double-Disk Differential Brakes. The six-cylinder engine is a completely new Case creation, not a modification or adaptation of any gasoline engine. It's different in design and dimensions from any other engine of any make . . . has a heavy 7-bearing crankshaft . . . multiple cylinder heads that are easy to handle in service operations . . . wet sleeves . . . forced circulation . . . by-pass cooling system for uniform temperature control . . . oil-cushioned clutch. It's the only farm tractor with "POWRCEL" controlled combustion that brings forth a smoother, quieter, more even flow of power with clean burning of fuel at all loads.

For all its simple design, compact construction and easy handling, the Case DIESEL is a big 5-plow tractor with power to do heavy, grueling work. See it, first chance, at your Case dealer's. Ask about other Case heavy-duty tractors built to burn gasoline, low-cost tractor fuels, or LPG fuel.



Great implements for DIESEL power include the new Case 15 and 18-foot heavy-duty, one-way disk plow . . . 5-bottom Case Centennial moldboard plow . . . wide wheel-type and offset disk harrows.

### Send for New Diesel Folder

Get full facts and pictures. Mark here or write in margin any size tractor, any kind of implement or farm machine that interests you. J. I. Case Co., Dept. K-47, Racine, Wis.

- Case Diesel Tractor
- 18-ft. One-Way Plow
- 13-ft. 6-in. Wheel-type Tandem Disk Harrow
- 5-bottom Case Centennial Plow
- 13-ft. 6 in. Offset Disk Harrow

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No. 3 in a series of articles on how to grow flowers

Tulips—Most Popular Spring Flower

By Frank Payne

MANY TIMES I have had flower lovers tell me they would like tulips much better if only they had a longer season of bloom. I always tell them they suit me just fine and in all ways, too. The facts are in this section you can have a full 6 weeks of lovely tulips blooming around your farmstead if you just plant some of all the different types. You see, one type follows another from the very earliest to the very latest varieties. For me, that means tulips are in bloom all thru April and the first half of May during an average spring growing season. I will tell you about most of the types, their season of blooming, also the names of varieties I can recommend as best for a long season of bloom.

Single Early Tulips—General Dewet, flaming orange. Rising Sun, yellow. Keizerkroon, red with yellow edge. White Hawk, pure white. Crimson Brilliant, scarlet.

Double Early Tulips—Couronne d'Or, yellow. El Toreador, orange red-edged yellow. Orange Nassau, orange red. Vuubaak, scarlet red.

Triumph Tulips—This type tulip is the result of crossing single early tulips with the Darwins. They have strong stems like Darwins but bloom before Darwins. Kansas, is a pure white. Chicago, carmine red. Crater, dark red. Ursa Minor, deep yellow. Edith Eddy, cerise, edged white. Johanna, deep pink.

For Bright Colors

Darwin Tulips—No other tulips have such bright colors, large flowers on long stems. Bartigon, geranium red. Baronne de la Tonnay, rose. Princess Elizabeth, soft rose. Pride of Haarlem, dark red. Farncombe Sanders, scarlet red. Yellow Giant, bright yellow. Zulu, blackish purple. William Copeland, magenta.

Breeder Tulips—They follow the Darwins and come mostly in the bronze, purple and metallic shades. Not quite as tall as the Darwins, but have strong stems and large flowers. Cardinal Manning, rose violet. Bacchus, purple. Bronze Queen, bronze. Prince of Orange, dark orange. Panorama, chestnut red. Indian Chief, reddish mahogany. Louis XIV, rich purple.

Parrot Tulips—This is a novelty tulip with bright mixed colors resembling the bright colors of a tropical parrot. Blue Parrot, bright violet. Fantasy, soft rose with green stripes. Orange Parrot, mahogany-orange with old gold. Violet Queen, lavender blue. Texas Gold, golden yellow. Firebird, scarlet.

Peony-Flowered late Double Tulips—They have large flowers, fully double and at a glance remind you of a peony. Eros is old rose in color. Mount Tacoma, a pure white. Uncle Tom, deep maroon. Duplex, carmine red. Royal Yellow, deep golden yellow.

Latest Lily-Flowering or Cottage type—These belong to the single late or cottage tulips and bloom from May

10 to 15. The stems are more delicate and should not be planted in a windy spot. La Merveille, orange scarlet with sweet fragrance. Picotee, white with red edge. Scarlet Flame, scarlet red. White Duchesse, pure white. Inglescombe Yellow, bright yellow. Inglescombe Scarlet, bright scarlet.

Here are some good rules to better tulip growing. Buy only good-quality, Holland grown bulbs. At present prices they will cost from 5 to 8 cents each in hundred lots, but they are worth every penny you pay. You cannot buy good bulbs for 2 cents each even tho you may see them offered at that price.

You can plant tulips in October, November and even as late as December if the ground is not frozen. Tulips must be planted deeply, at least 8 inches deep. Then you can leave them several years in the same place and sow some late summer seed flowers such as zinnias, petunias, marigolds, four o'clocks or other shallow-rooted annuals thereby getting 2 crops of flowers from the same spot. Plant in a well-drained soil.

Belong to Lily Family

Tulips are from the lily family and cannot stand soggy ground where water might stand in wet seasons. In spring keep free from weeds. Do not place any animal manures over the tulip beds—it would be sure to get a rot started. Be sure to remove the seed pods after the petals drop, but don't cut off the foliage until it turns brown. The foliage develops the flower bud for next year and if cut off too soon you would destroy the strength of the bulb.

Tulips are good from 3 to 5 years in the same spot, then it is time to get new bulbs. Change the soil or the location of your bed when you get new bulbs. If planted in the same spot so often they might get diseased, so you must rotate flowers about like one would in growing corn or other farm crops. In case you should dig up your bulbs in late June after the tops die down, be sure to store thinly in a cool, dry basement about same as you would onions. Do not mulch tulips early in fall. It would be sure to bring on a nest of ground mice that would have a feast on your bulbs—tulips are too expensive to feed ground mice.

I am going to tell you of 2 spots in the central states where the entire city grows many thousands of tulips for display to the public. Some day you may be near these cities in the springtime and you too can pay them a visit. Both towns are well filled with Hollanders who came to America but have never lost their love for tulips. They even have a tulip festival each year when tulips are in bloom which is given the public without charge.

Many thousands of flower lovers visit these 2 American cities each year. One town is Pella, Ia., about 40 miles southwest of Des Moines. Tulips bloom up there about May 15 in an average sea-

son. The other place is Holland, Mich., which would have a later blooming season, so their festival would be around May 20 to 25. Holland is about 40 miles southwest of Grand Rapids near the shore of Lake Michigan. Of course, Oregon grows many acres of bulb flowers on its west coast, but I do not know of any particular city that has a festival like the 2 cities in Iowa and Michigan.

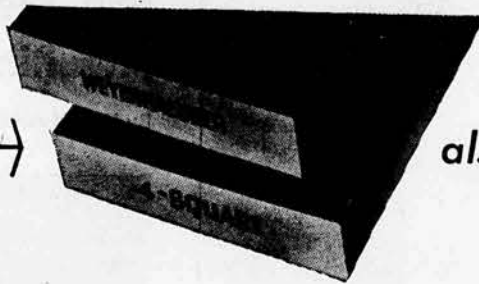
I really hope you plant some tulips around your home. They are so popular

among early springtime flowers. You can get them in all colors. There are so many colors you can select them to your own taste, to harmonize with the color of your house and all you have to do is plant them this fall—they take a long winter nap but are up in early spring in all their glory, smiling at you as if they were saying, "Howdy folks, aren't you glad you planted us last fall?" Well, fall is here, so right now is your time to plant tulips if you want bloom next spring.

See your dealer listed below FOR FREE BLUEPRINTS OR CATALOG. Includes a list of towns and dealers across Kansas, and a small illustration of a blueprint box.

I WONDER HOW THAT STARTED... Living the Life of Riley. This saying began in a comic song popular in the 1880's, 'Is That Mr. Reilly?' written by Pat Rooney. Includes a cartoon illustration of a man in a top hat smoking a pipe.

This brand name  
on lumber →



also helps you ↓

# Raise more poultry and livestock with chore-saving modern buildings

A farmer in New York cares for 1,000 laying hens in 20 minutes a day. His neighbor spends nearly two hours. A farmer in Indiana works two hours to raise a 225-pound hog. A neighbor works nine hours.

How do some farmers make more money, save chore hours, and hire less help? Records show that a big part of the answer is practical, well-planned buildings — buildings designed to economically handle various sized farm programs...and planned efficiently to take

advantage of labor-saving equipment.

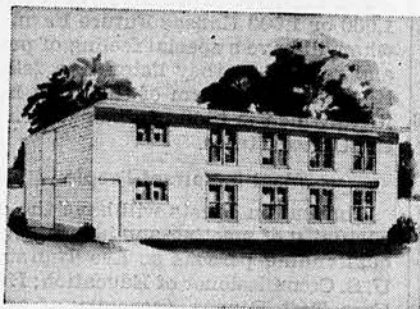
The Weyerhaeuser 4-Square Farm Building Service offers you plans for such buildings — designs that cut chore time, help reduce animal death losses, and help you increase over-all production with less hired help.

A few examples, chosen from the 204 designs in this great Building Service, are shown here. Expertly planned buildings such as these will make money for you, improve your farm and your standard of living.

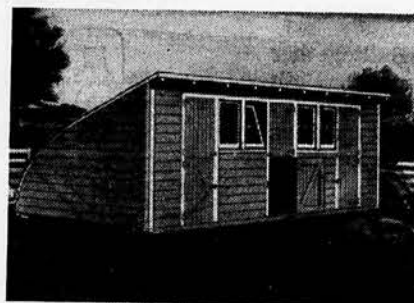
## A FREE BLUEPRINT—CHOOSE FROM THE 204 PLANS IN THE 4-SQUARE FARM BUILDING SERVICE

The coupon below entitles you to receive—free—a complete set of blueprints for the building you want. You have your choice of any service building in the big Weyerhaeuser 4-Square Farm Building Service, so you will want to see all the buildings illustrated in the portfolio in the office of your local Weyerhaeuser 4-Square Lumber Dealer (see his name on the list). Or, if you prefer, the coupon entitles you to the complete new building catalog, or the equipment catalog.

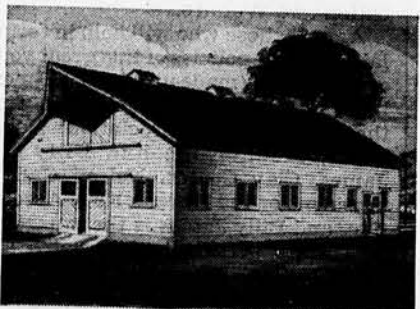
Whether you choose a dairy or feeder barn, poultry or hog building, milk house, machinery shed or other farm building, you receive a plan designed by a farm specialist. In addition, each design has been engineered by Weyerhaeuser for strength, economical construction and long, useful life.



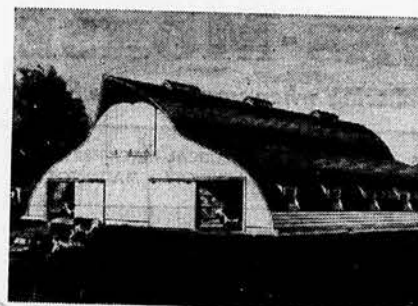
**LAYING HOUSE No. 1471**—Space for 650 to 800 layers. Labor-saving features include centrally-located nests and a feed room on each floor.



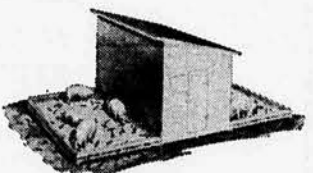
**HOG HOUSE No. 1306-c**—Three 6' x 8' pens are easy to heat. Factory-built laminated wood arches make building very strong, yet light to move.



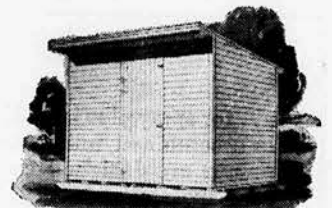
**DAIRY BARN No. 1024-b**—This inexpensive mow space is ample for many farms. See the many labor-saving floor plans for use with this design.



**FEEDER BARN No. 1103**—Hay is stored from ground to roof in center, eliminating heavy loft construction. This design also saves labor and feed.



**THIS PORTABLE CRIB** is actually a giant self-feeder that cuts both hauling and feeding time. Wood frame and wood shingles mean outstanding durability.



**MOVABLE GRAIN BIN** is one of a dozen modern, economical crop storage designs in the Service. This sturdy wood bin is easy to move and easy to build with common tools.



**MILKING PARLOR**, a good example of labor-saving design, can be built or remodeled without special equipment—because wood is still your most versatile building material.



### VALUABLE COUPON!

Present it to your Weyerhaeuser 4-Square Lumber Dealer for a free blueprint or a plan book.

**WEYERHAEUSER SALES COMPANY**  
ST. PAUL 1, MINNESOTA

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and literature take this coupon to your dealer. See list.

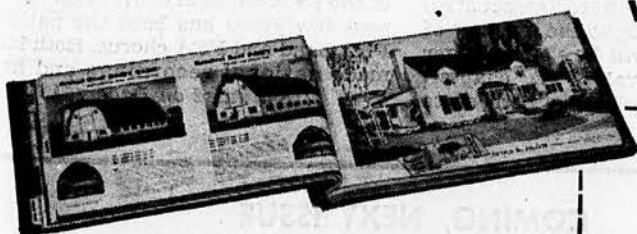
Farmer's Name \_\_\_\_\_ Address \_\_\_\_\_

Mail free blueprints for Design No. \_\_\_\_\_ to us  or direct to Farmer

Mail catalog checked: Building Catalog  Equipment Catalog  We will give it to this farmer.

Dealer's Signature \_\_\_\_\_ Address \_\_\_\_\_

**TO DEALERS:** The holder of this coupon is entitled to one set of blueprints for any one of the service buildings in the 4-Square Farm Building Service, and one free plan book. Fill in below and mail to Weyerhaeuser Sales Company—Dept. F, St. Paul 1, Minnesota.



**See all 204 DESIGNS  
IN THE SERVICE**

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## Pass your pump problems to

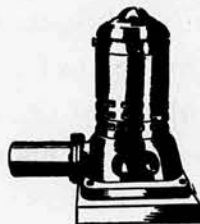
# FAIRBANKS-MORSE

Fairbanks-Morse has an irrigation pump to best suit your needs... and your local Fairbanks-Morse dealer is well qualified to recommend one for you. Choose one of these pumps—be sure of minimum maintenance over the years—dependable service *when* you need it.



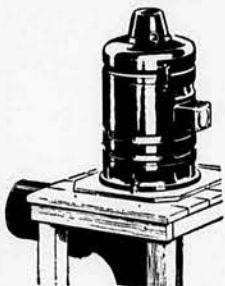
### FAIRBANKS-MORSE DEEP WELL TURBINE PUMPS

... the Pomona Line. They're available in both water and oil-lubricated styles... you adjust capacities easily *above* the surface... all steel parts subject to corrosion are protected by "Fairmortecting"—a new rust repellent.



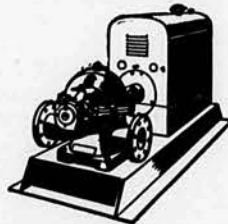
### FAIRBANKS-MORSE PROPELLER PUMPS

... for low-lift, *big* acreage irrigation. They'll deliver up to 216,000 gallons per minute! They're compact... simple—oil or water lubricated... completely self-priming... and have balanced load distribution—very efficient.



### FAIRBANKS-MORSE CENTRIFUGAL AND BUILTTOGETHER PUMPS

... for spray pipe irrigation. The Builttogether is a combined unit, pump *and* motor. Both pumps are designed for steady pressure... *easy* maintenance... you can get capacities up to 4500 gallons per minute and heads to 300 feet.



Your local Fairbanks-Morse dealer is also up-to-date on the latest irrigation methods... drop in and see him... or write Fairbanks, Morse & Co., Chicago 5, Illinois.



# FAIRBANKS-MORSE

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## FFA Members Have Thrills Awaiting Them at National Convention

By HELEN ANKENY



KANSAS STATE FFA officers are, back row, left to right: Gilmore Dahl, Effingham, vice president; Robert Watkins, Alma, treasurer and Francis Grillo, Parsons, sentinel; front row, left to right, Sam Peppiatt, Ellsworth, reporter; Nelson Galle, Moundridge, president; and Ray Zimmerman, Olathe, secretary.

MORE THAN 10,000 Future Farmers will have the thrill of a lifetime when they attend the silver anniversary national convention of the Future Farmers of America scheduled for October 12 to 15, at Kansas City. All lads coming from all parts of the United States, Puerto Rico and Hawaii will have the opportunity of seeing and hearing President Dwight D. Eisenhower, who will address the convention body at the Municipal Auditorium the evening of October 15.

Among those 10,000 boys will be some 1,500 or 1,600 Kansas Future Farmers who will have a special feeling of pride and respect as they listen to a fellow Kansan telling them of the great heritage which is theirs in being born in the United States.

### Meet Important People

Convention guests will have the opportunity of meeting and hearing such outstanding persons as Lee Thurston, U. S. Commissioner of Education; Hon. Ezra Taft Benson, secretary of agriculture; Hon. Arthur Summerfield, Postmaster General; and Hon. Oveta Culp Hobby, secretary of Health, Education and Welfare.

Among those who will help in formulating future policies of this great youth organization (made up of 363,369 members) will be official delegates from the Kansas FFA Association: Nelson Galle, Moundridge and Billy Ray James, Clay Center. Nelson Galle is president of the Kansas FFA Association, and Billy James is the immediate past state president. Alternates are: Gary Neilan, St. Francis, past state treasurer; and Gilmore Dahl, Effingham, state FFA vice-president.

Serving as a delegate to this great national convention is an honor that comes to few Future Farmers, since only 2 delegates are allowed from each state.

Another Kansas Future Farmer stepping into the limelight the evening of the opening day will be young Roger Adamson, Cherryvale FFA chapter. By winning first place in both state

and regional FFA public-speaking contests, he won the right to compete in the national FFA public-speaking contest, evening of October 12.

Highest honor the national FFA organization can award is the American Farmer Degree. Every Future Farmer looks forward some day to winning this degree, but not all are successful for qualifications are high and difficult to meet. The degree is limited to FFA members who have been out of high school at least one year and who are showing evidence of becoming successfully established in farming. State FFA associations are limited to one American Farmer degree candidate for each 1,000 members.

### Recommended for High Honor

Four Kansas boys have been recommended by the National Board of Student Officers and approved by the National Board of Directors to receive the degree this year, according to word received by L. B. Pollom, Topeka, state supervisor of agriculture education in Kansas. They are: Marvin G. Allen, Olathe; Kermit Case, Little River; Ronnie Hughes, Emporia, and Donald V. Hunt, Arkansas City. Nationally, 336 Future Farmers were recommended for the degree, the largest number to be recommended in the 25-year history of the organization. Presentation of the degrees will take place in the Municipal Auditorium on October 13. Each degree winner will receive a certificate and gold key from the FFA organization, and a \$50 check from the Future Farmers of America Foundation, Inc. Four of the 336 American Farmers this year will be designated Regional Star Farmers, and one of the 4 will be named Star Farmer of America. Announcement of Star Farmer awards will be made during the evening session of October 13.

One of the main feature attractions of the FFA national convention for the past few years has been the national FFA band and FFA chorus. Both have made national recordings and have

(Continued on Page 15)

### COMING, NEXT ISSUE

"New Ways with Yeast Rolls" is the title of the big story in the home department of the October 17 issue of Kansas Farmer. From one basic recipe, directions are given for making 3 new and different rolls. Watch for these new recipes in the home department... Crumble Squares, Rosettes, Marmalade Drops.

en heard over national radio hook-ups. The band was organized 5 years ago by Dr. Henry Brunner, Pennsylvania State College, director of the band since.

Of the 500 seeking the honor of playing in the band were 40 Kansas boys who were chosen. They are: Benny Went, Smith Center; Bill Brethour, Clay Center; James Froane, Trousdale; Wayne Wiens, Hillsboro, and Jack McHugh, Chanute.

**Music by Kansans**

Kansas boys chosen from the more than 300 boys who sought the honor of singing in the chorus were: Marlin Brown, Williamsburg; Merle Cuthbertson, Girard; Robert Haas, Riley; Harold Paul Heymann, Burns; Arvin Hofmann, Clay Center; Hal McClure, Manhattan; Carlyle Thompson, Shawnee Mission, and Norman Wittner, Coffeyville. The chorus was organized 4 years ago by Dr. James Hatch, State Department of Education, New York, director of the chorus since.

For the second year in succession, Ormond Mabry, Little River, has been chosen to accompany the chorus at the no.

**In Better Chapter Contest**

Kansas will have 2 entries in the national Better Chapter contest—Shawnee Mission chapter, H. D. Garwood, adviser, and Little River chapter, Tom Kohrs, adviser. The Little River chapter also had an entry in the National Better Chapter contest in 1952, received a silver emblem award.

1935, Shawnee Mission won first place in the national contest and has won a gold emblem rating.

Elson Galle, Moundridge, state FFA president, will carry the Kansas flag in the parade of states, and also in silver anniversary pageant.

A gigantic silver anniversary pageant will be featured Wednesday morning and that afternoon, most boys will go on tours of the city, while official duties work in committee sessions.

ional and national winners of Farmers of America Foundation awards in farm mechanics, farm electricity, soil and water management, safety, and dairy farming will be presented Wednesday night by another notch entertainment program, furnished thru courtesy of the Firestone and Rubber Company.

national FFA judging contests will be held this year, October 5 to 7, at Waterloo, Ia., and October 13 to 15, at Kansas City. The Kansas FFA Association will send state-winning teams to compete at both events.

**Will Represent Kansas**

The Chanute chapter judging team will represent Kansas in the national dairy judging contest at Waterloo, October 6. On the team, coached by their vocational agriculture instructor, Charles Carter, Jr., are: Dean Clark, Mervin Snowden, Garold Burg and Roy Cheney, alternate.

The Clafin team, coached by Walter Clafin, will represent Kansas in dairy judging at Waterloo. On the team are: Bobby Beck, Don Rujan, and Feist and Ivan Seyfert, alternate.

The Perryvale judging team, coached by Young, and the top team in all judging this spring at Kansas State College, will compete in the national poultry judging contest at Kansas City, October 14. Team members are: Robert McClaren, John Townsell, Adamson and Carl Hamilton, alternate.

Competing for Kansas in the national livestock judging contest October 5 at Kansas City will be the Hill FFA judging team coached by Lacey. This team is composed of Harvey and Joe Farrell, alternate.

The Quinter team, coached by FFA Ormond Breeden, will represent Kansas in the national FFA meats contest, October 14, at Kansas City. Team members are: Boyd Tuttle, Jack Sutherland, Dwight Jamison and Charles T. alternate.

# "My Hens and I Teamed Up with GOOCH

## 81% PRODUCTION RECORD!"



THE BEST HENS!



THE BEST MANAGEMENT!



GOOCH'S BEST FEEDS!

"You need a good flock to get lots of eggs," says Mrs. Griess. "I don't care how good a manager you are, or how good a feed you use, you can never get more out of pullets than is bred into them. That's why I bought the breed I like best, of the best quality I could find. However, good birds alone are not enough.

"You need to manage that flock — to use the best sanitation methods and keep up with the new discoveries in caring for your hens and caring for your eggs after the hens produce them. But even this combination is not enough unless you get a top quality feed. That's why —

"I think you need GOOCH'S BEST Feeds. I know they team up wonderfully with my hens to produce a top production record. Between careful culling and good feeding with GOOCH'S BEST Laying Granules, I managed my flock to reach a production level of over 81%."

(3 photos above from Gooch Experimental Poultry Farm, Lincoln, Nebraska)

### All over the Midwest GOOCH'S BEST Feeders Use these Methods, Get Top Results

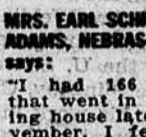
**MRS. BILL BENNETT, LENOX, IOWA, says:**

"Good management's my most important rule. And I include feeding GOOCH'S BEST Feeds as a part of my good management. Last spring, feeding GOOCH'S BEST 26% granules, I got 77% production in February, 78% in March and 76% in April. GOOCH'S BEST helps me get good results, consistently."



**MRS. W. M. BREWER, UNION STAR, MISSOURI, says:**

"I fed my 207 New Hampshire Reds on GOOCH'S BEST Layer Breeder Mash last winter. When I started keeping records on them, I was getting better than one egg every other day from every hen. The last couple of weeks of the test they were averaging well over 70% production, going from 135 to 160 eggs daily."



**MRS. EARL SCHMUTTE, ADAMS, NEBRASKA, says:**

"I had 166 pullets that went in the laying house late in November. I fed them on GOOCH'S BEST Layer Breeder. By the end of February, I was taking anywhere from 110 to 120 eggs a day from the 162 hens that I had then. My total average for that month was about 70% production."



**MRS. L. A. HARTING, EDMOND, KANSAS, says:**

"I started keeping records October 15th on 248 pullets and 80 hens. I 'GOOCHed' this flock and at the end of a month, culled out the old hens and some of the pullets... finished my 90 day test with a good strong 69% production, averaging 167 eggs a day the last two weeks with 235 hens."

## Put this 3-Way Team to Work for You to Get MORE EGGS

Are you one of those folks who make their flocks give you 20 to 24 eggs per hen each month? Or are you, instead, feeding too many "boarders", suspecting that it may be actually costing you money to keep hens?

or complete all-in-one feeds for use where no farm grains are available. In addition to high quality feeds, GOOCH now offers you a complete plan for higher egg profits.

If your egg return is not as large as it should be, you ought to know about the tested methods that successful flock owners such as Mrs. Oscar Griess and other good managers are now using.

To make it easy for you to follow these feeder-proved methods, Gooch has just prepared a new 24-page booklet, "Managing Your Hens for Extra Eggs". Here are management guides, feeding charts, practical, helpful ideas and shortcuts you can use on your farm to boost egg profits this fall.

You already know the service Gooch has rendered poultry raisers by pioneering better feeds for each type of feeding plan: — Feeds for balancing farm grains,

To get your copy, either write us or ask your Gooch dealer. Get it today!

# GOOCH'S BEST GOOD MANAGEMENT

IMPORTANT FREE Booklet "Managing Your Hens For Extra Eggs" (25¢ VALUE)

24 illustrated pages of helpful ideas on how to get more eggs from your flock — and how to get more money for those eggs. Discussions of labor-saving methods, disease problems, management tips, many other valuable ideas. Mail coupon now — or ask your GOOCH'S BEST dealer.



**GOOCH FEED MILL COMPANY**  
Lincoln, Neb. Council Bluffs, Iowa Salina, Kansas Daltart, Texas

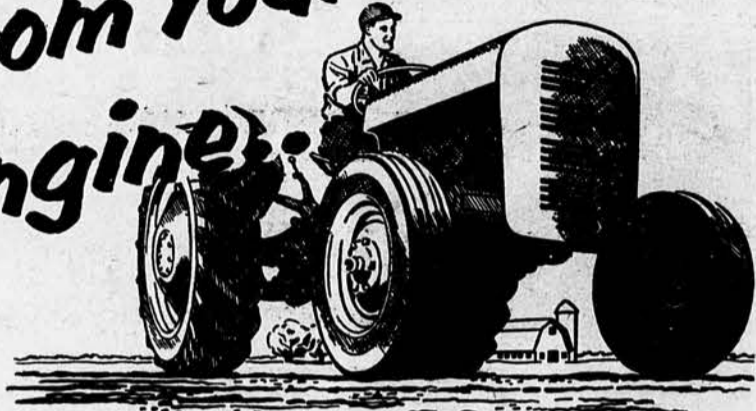
Please send me FREE booklet, "Managing Your Hens for Extra Eggs"

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Town \_\_\_\_\_ State \_\_\_\_\_

**GOOCH RED CIRCLES Are Valuable!**

Collect and trade them for valuable merchandise. Ask your GOOCH dealer for new, free catalog.

# How to get LONGER LIFE from Your Tractor Engine:



## Switch to NEW



IT PROTECTS AGAINST:

- DUSTY CONDITIONS • HIGH MOISTURE CONDITIONS
- HEAVY LOADS • LONG IDLING PERIODS
- RUSTING IN STORAGE

Now, you can actually get *more working hours* out of your tractor. Change to Sinclair EXTRA DUTY MOTOR OIL — a big step ahead of ordinary Heavy Duty Motor Oils. Sinclair EXTRA DUTY is a triple range anti-wear motor oil which assures superior protection against all causes of engine wear — damaging friction wear — destructive acid wear and costly wear due to rusting. Because EXTRA DUTY has from 50 to 100% higher detergency, your engine stays free and clean of power-sapping deposits. Ask your Sinclair Representative for new Sinclair EXTRA DUTY MOTOR OIL — and get thousands of hours longer life from your tractor, truck and car.

## SINCLAIR EXTRA DUTY MOTOR OIL

### Western Land Roller CENTRIFUGAL and TURBINE PUMPS FOR IRRIGATION

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

WRITE FOR INFORMATION

MANUFACTURED BY  
**Western Land Roller Co.**  
HASTINGS, KANSAS

ANY CAPACITY  
300 TO 2500 GALLONS PER  
MINUTE, AND ANY LIFT FROM  
10 TO 300 FEET

## American Royal Stock and Horse Show Has Entertainment for All

A WIDE VARIETY of entertainment again is scheduled for the annual American Royal Live Stock and Horse Show, in Kansas City. The 1953 event will be October 16 thru 25.

Top guest at the 55th annual event will be President Eisenhower, and several members of the cabinet, at the opening Horse Show performance, October 16. A pre-Royal event, October 13 and 14, will be choosing the Queen of the Royal from winners of 40 beauty contests. Hollywood and TV personalities at the annual Coronation Pageant and Ball Friday evening will include Duncan Renaldo and Leo Carrillo, as the Cisco Kid and Pancho. The Pageant will include appearance of the BOTAR

(Beauties of the American Royal dances by American Royalties, group of high school girls from the metropolitan area, and other highlights. There will be a gigantic street parade on Saturday morning, with a 2-mile line-up of bands, mounted patrols, military units, colorful riding clubs, Roy Queen and beauties.

Entries for the Horse Show number 750, and include such colorful numbers as Loula Long Combs and her harness hackneys, cutting horse contest, and mounts from the country renowned stables.

Entries in the livestock show number about 3,700. Grand champion steer will be selected on Monday, October 19.

## Can Show Water Heater Saves Her at Least 14½ Hours a Week

NO MORE SKIMPING on hot water in the Ed Helmer family, Butler county. That's fine. But better still: No more teakettle watching. No more staggered baths. No more washday waits. No more delays in doing the dishes. And Ed can shave any time the spirit moves.

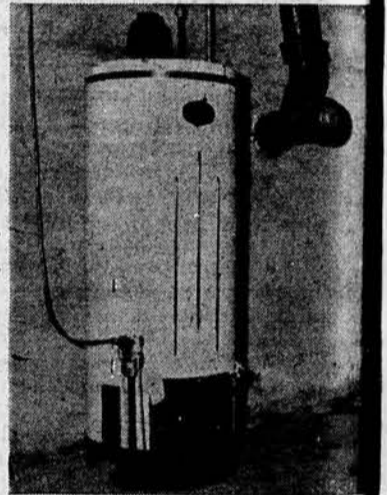
Mrs. Helmer notices the biggest difference in washing. Time was when she put the old boiler full of water on a kerosene stove and waited 4 hours for it to generate enough heat to make a suds. That usually took until 11 o'clock and time to get dinner.

But not any more. The water is hot always since they got an LP-Gas heater. When Ed goes out to milk, she starts the washing and the machine runs while they have breakfast. Plenty of water for as many batches as she has to do—plenty for rinsing, too. And the wash is flapping in the sunshine by the time the children wake around 9 or 10 o'clock. Time saved weekly by having automatic hot water, she estimates at 3½ hours.

Dishwashing has been cut an hour a day. That, maybe isn't so noticeable. But still it counts up to 7 hours a week. Then there are baths for the children, any time they need it and that's often

in summer. She credits another 4 hours of saving to ready-warm bath water.

That totals 14½ hours a week for the 3 uses alone. The equivalent of a long working day in every 7 days.



THIS IS Mrs. Helmer's work- and time-saver. Next to a water system, an automatic heater is the biggest boon to modern living.

## Kansans Place High in U. S. Arc Welding Award Program

EIGHT KANSAS farm boys have won high honors in the annual national James F. Lincoln Arc Welding Foundation arc welding award program.

First place in the U. S. went to a Kansan—Valgene Slingsby, Clay Center, who won for his work in making laborsaving equipment on his father's 240-acre diversified farm. Equipment he made included a manure loader, trailer, lawn mower, clothes line poles, truck bumper, dozer. He wins \$600, and his school also wins \$600. Ray Morrison is agriculture instructor at the Clay County Community High School, which is to use their \$600 for improvement of the shop course.

Other Kansas winners: Alex Vodrofska, Jr., Black Wolf, Ellsworth High School, \$50, for description of portable cattle squeeze; Ned McMahan, Idana, Clay County Community High School, \$50, carryall milk can rack; Jack

Meyers, Merriam, Shawnee-Mission High School, \$50, portable all-metal hayrack and feeder; Eugene Munn, Clay Center, Clay County Community High School, \$25, road grader; E. Stille, Riley, Riley Rural High School, \$25, mounted plow; Oscar Beck, Riley, Riley Rural High School, \$25, mounted disk; Louis Vopat, Kanopolis, Ellsworth High School, \$25, hydraulic posthole digger.

### Tuttle Creek Film

A gala movie premiere was held in Kansas, September 18.

The new film, "The Tuttle Creek Story," telling of the Blue Valley people and their fight against Tuttle Creek Dam, was shown at Randolph to thousand visitors and friends. The minute documentary color film was made by Charles Peters, Beverly Hills, Calif., who spent several weeks in the Valley and in Kansas.

### Thank You

We think *Kansas Farmer* gets better with every issue.

We join with many others in thanking Frank Payne for his good articles on house plants and bulbs. I hope he gives them again.

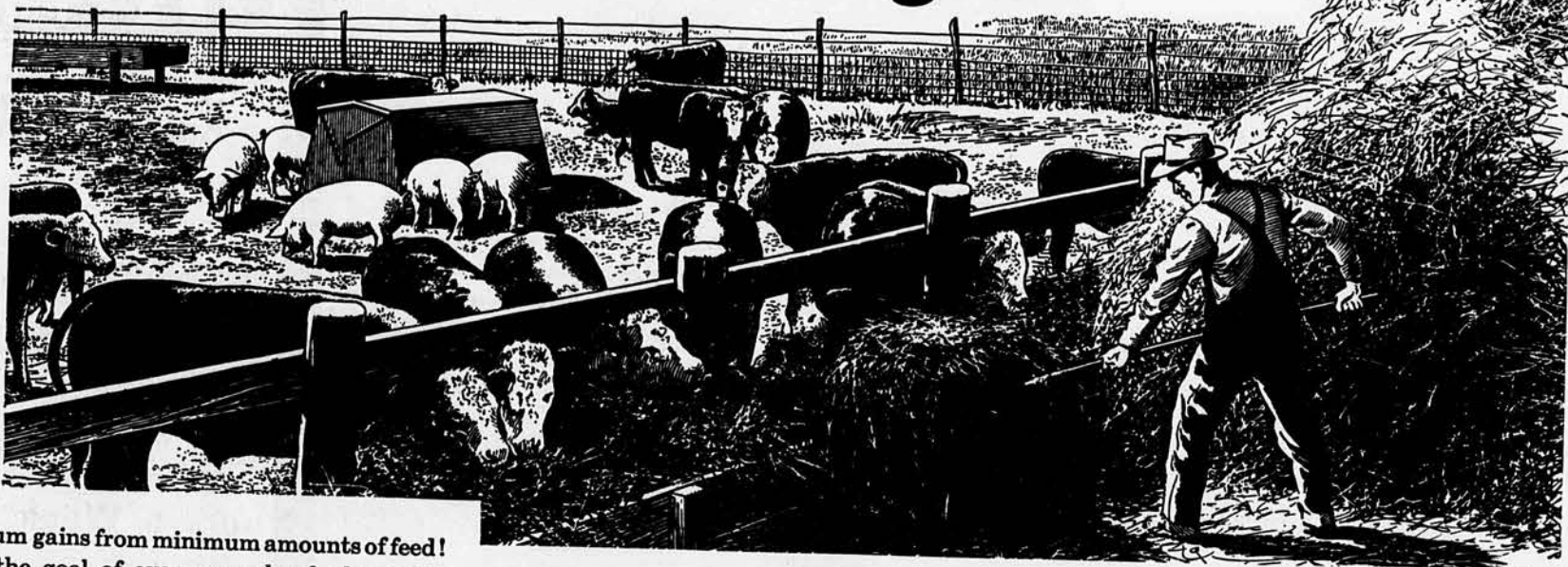
We also enjoy "Grandma."—Mrs. Harry Monk, Montgomery Co.

### Honor Tom Avery

A national poultry honor has been awarded to a Kansan—T. B. Avery, Kansas State College poultry bandry professor. The Poultry Science Award, an annual honor given to outstanding teacher, is made by Poultry Science Association. Mr. Avery is secretary-treasurer of the group.



# More gain with less grain



Maximum gains from minimum amounts of feed! That's the goal of everyone who feeds cattle, hogs or lambs. For it means *lower costs, and a better margin* for successful livestock production. To many folks that goal may seem very difficult to reach. In fact, a noted authority on feeding estimates that only one out of four "is feeding enough of the *right materials*." That leaves plenty of room for improvement!

Feeds and feeding methods vary from area to area. Yet there is one sound, basic underlying principle which applies everywhere. When gains are made largely on low-cost forages and roughages—grass, hay, silages, corn fodder, balanced by good quality concentrates and protein supplements—you can finish your animals to desired grades by feeding minimum amounts of grain in the last few weeks.

In every important livestock state, experiment stations are testing and proving new feeds and feeding methods. For example, Purdue's famous "Supplement A" containing urea, molasses, proteins and vitamins enables cattle to make good gains on coarse roughages. Iowa's Cattle Ration No. 1 and No. 2 also give excellent results. Antibiotics enable hog producers to save weeks in producing market weight animals. Trace minerals and disease-controlling drugs make efficient feeding easier. All of the proved feeds and supplements now are readily available from feed manufacturers.

Every year brings new advances in feeds and feeding. Some shorten feeding *time* in a spectacular way. Others materially reduce production *costs*. In many cases even a slight change in a feeding program may mean the difference between profit and loss. It pays to be deep informed about all that's newest in this business of raising and feeding meat animals.



## YOU decide when, where and how

Our company operates from day to day on many decisions made by thousands of people who don't know each other and whom we don't know. Cattle ranchers in the Beaver Head Valley of Montana, on the desert of Nevada, in the humid plains along the Gulf of Mexico... sheepmen of the Big Horns or the Chama... turkey growers in Minnesota... broiler men in Georgia... hog and cattle producers in the Corn Belt. Individuals pursuing their own interest, running their own businesses ask themselves such questions as these:

"How many breeding animals shall I carry over? How close shall I cull? When should I sell, and how many? Shall I feed more or fewer?"

And the answer to every one of these questions can, in turn, depend on the balancing of many other factors—the amount and condition of forage; the relative price of feed grain, roughage and other feeds; the way the livestock market looks to that particular man at that particular time.

The daily sum total of *all* the individual answers to *all* those questions causes the numbers of meat animals marketed to vary from day to day, and week to week. For instance, one day I came to work to find 22,000 head of cattle in the Chicago Stock Yards. The next day there were 5,000. All of which indicates more clearly than many words that the number, kind, grade, place or time that livestock is marketed depends on decisions made by you.

*Tom Glaze*

Agricultural Research Department



T. W. Dowe

## Fair Gaining Winter Calves Do Better on Summer Grass

by Professor T. W. Dowe, University of Nebraska, Lincoln, Nebraska

Do you plan to graze yearling steers on good grass next summer? If so, it appears that you should winter those calves so that they will gain between  $\frac{3}{4}$  and 1 lb. per head per day. This recommendation comes out of three years of work conducted by the Nebraska Experiment Station. Their findings indicate that it is more profitable to winter calves that make reasonably good gains during the winter rather than small gains.

Two winter rations were compared: (1) prairie hay only, and (2) prairie hay plus  $\frac{3}{4}$  lb. of 40% protein supplement daily. Steers on the winter rations for 177 days grazed for 150 days the following summer.

Steers on prairie hay gained .21 lb. per day or a total of 37 lbs. for the wintering period. The following summer they gained 1.73 lbs. per day, or a total of 260 lbs. per head. Their winter-summer gain was 297 lbs.

Steers fed the prairie hay plus  $\frac{3}{4}$  lb. of a 40% protein supplement daily gained .92 lb. per day during the winter or a total of 163 lbs. Their total winter feed consumption was 2,430 lbs. of hay plus 135 lbs. of protein supplement. The following summer they gained 1.48 lbs. per day or a total of 222 lbs. per head. Their winter-summer gain was 385 lbs., a total of 88 lbs. more than those wintered at the lower level.

The 88 additional lbs. cost 397 lbs. of prairie hay plus 135 lbs. of a 40% protein supplement. Figuring prairie hay at \$15.00 per ton and protein supplement at \$80.00 per ton, the 88 pounds cost \$8.38, or about 9 $\frac{1}{2}$ ¢ per lb.

They found that steers wintered to make 200 lbs. gain during the wintering period will gain from 25 to 50 lbs. less during the summer grazing period than those wintered to gain 100 lbs., if the winter and summer feeding periods are of about equal length.

## This matter of SPREAD

As you know, when you buy certain cuts of beef, you may pay quite a bit more per pound than you receive for live cattle. Some cuts may cost you three to four times as much. "Why such a spread?" you may ask. There is a reason for that spread—and here's the way it works out in the case of beef.

Recently, we paid \$25 per hundred for choice 1,000-lb. steers, or \$250 per steer. Carcasses from those steers weighed 590 lbs. The following week a retailer paid us 39¢ per lb. and we received a total of \$230.10 for a carcass. That was \$19.90 less than we paid for the live 1,000-lb. steer. But we also sold the by-products—the hide, heart, liver, tongue, etc. Their value took care of the costs of doing the buying, slaughtering, refrigeration, shipping, selling and so on. That's how it is often possible for us to pay you more for a steer than we get for the meat from that steer.

When the retailer gets the 590-lb. choice carcass, costing 39¢ per pound in his store, he sells it as cuts of various kinds to his customers. He receives about \$276. With this money he pays for the beef and all his other costs of doing business. To operate successfully, he must sell such cuts as steaks and some roasts for considerably more than he paid per pound for the carcass. That's because about 50% of the carcass becomes cuts that often sell at retail for less per pound than the wholesale carcass price.

Because a steer isn't all beef... and since all cuts do not sell for the same price... there must be a spread between live prices and the price of certain cuts of beef. That's the only means of paying the essential costs of processing, distributing and retailing meat.

**Swift & Company**  
UNION STOCK YARDS, CHICAGO 9, ILLINOIS

*Nutrition is our business — and yours*

### Martha Logan's Recipe for

#### SAUSAGE NOODLE DINNER

- 1 pound pork sausage links     $\frac{1}{4}$  cup catsup
- 2 tablespoons water            1 teaspoon Worcestershire sauce
- 2 cups cooked noodles

Place sausage in a heavy skillet. Add water. Cover and cook 5 minutes. Remove cover and pour off fat. Add noodles, catsup and Worcestershire sauce. Pan fry slowly for 10 minutes. Yield: 4 to 6 servings.



# IT'S HERE! New FORDSON MAJOR DIESEL Priced Sensationally Low!



**Now, for the first time,  
a 3-4 plow diesel tractor at a gasoline tractor price!\***

Once again, Ford brings lower priced power to the American farm.

This time it's a new 3-4 plow diesel tractor, priced hundreds of dollars below other diesel tractors in its power class. Actually, Ford's new diesel tractor is priced no higher than many 3-4 plow gasoline tractors comparably equipped, yet this new diesel saves hundreds of dollars each year in fuel costs over gasoline tractors.

The lugging power and all-around performance of the new Fordson Major

Diesel is so outstanding that some call it sensational. In addition, you get the convenience and work-saving advantages of a built-in hydraulic system, 6-speed transmission, easy automotive type steering, side-by-side brake pedals, powerful 12-volt starting motor, and many more advantages.

So if you are looking for more dependable, lower cost tractor power in the 3-4 plow class, be sure to see the new Fordson Major Diesel Tractor. Ford Tractor Division, Ford Motor Company, Birmingham, Michigan.

*\*Based Upon Comparison of Suggested List Price F.O.B. Port of Entry and Published Suggested List Prices of Competitive Tractors F.O.B. Factory.*

**Save more in fuel costs**

If you have a gasoline tractor in the 3-4 plow class, figure your fuel bills for the past year. You can cut these fuel bills in half, and more, with the Fordson Major Diesel.

**Its lugging power will surprise you!**

Lugging power that far surpasses ordinary tractors! "Pulls through" on heavy loads—reduces stalls and gear shifting.

**More hours of operation between overhauls**

Tests show you can operate this tractor hundreds more hours between overhauls. Real money-saving durability!

**Six speeds forward, two reverse**

With six speeds forward, you can choose the right ground speed for every job, while the engine operates in its most efficient speed range. All speeds up to 15 m.p.h.

**Built-in hydraulic system**

Fingertip control of rear attached equipment. Remote cylinders can also be quickly attached for easy control of pull-behind equipment.

**Adjustable tread for row crop work**

Wheel tread adjustable from 52 to 72 inches (11 x 38 rear tires).

**FORDSON MAJOR**

# "You don't make milk by stinting on the feed"

Thus simply, Secretary of Commerce Weeks stated in a recent address a profound business truth which is frequently overlooked.

"If the regulated industries are to render their full services to the nation," the Secretary said, "it is my judgment that the regulatory bodies must allow earnings adequate to attract and support the equity capital they can use effectively for economies, improvement and growth." And he observed further that "the courage and inventiveness that risks great sums for improvements and economies in the future does not naturally emerge from men who have not the credit to raise the money nor the assurance that they would be allowed a return on it when their dreams come true."

That has been the situation of the railroads. Earning a return on their investment which over the years has averaged less than 4 per cent, the railroads have not found it possible to attract the equity capital they could "use effectively for economies, improvement and growth."

Nevertheless, by drawing heavily on their reserves and by sharply increasing their obligations for the purchase of equipment on the installment plan, the railroads have put into service since the end of World War II more than 500,000 freight cars and almost 18,000 new diesel-electric locomotive units. For these and other improvements they have spent more than a billion dollars a year.

Such improvements mean not only better service to the public but also more efficient railroad operation, with costs and rates lower than would otherwise have been necessary. And as research opens up other possibilities, there will be other opportunities for railroads to make improvements which will mean still better service at the lowest possible cost.

To take advantage of these opportunities, the railroads will need not only "the courage and inventiveness that risks great sums for improvements and economies in the future," as Secretary Weeks said, but also the cash and the credit which, in the long run, can come only from "not stinting on the feed."

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## DON GOES TO LEBANON AND SYRIA

Describes wheat harvest, how bread is made, irrigation methods, Point 4 Program work

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



DON WEIXELMAN  
Louisville, Pottawatomie County

DEAR MR. GILKESON: Wheat harvest is nearing completion here in Lebanon. Harvest is done in very old ways which are probably comparable to methods used 2,000 years ago. It requires a long time and is done entirely by hand labor.

Harvest starts here about the first of July by cutting the grain with a small hand sickle. As it is being cut it is piled in small, loose bundles on the ground. These are picked up later and loaded on donkeys, camels or carts pulled by oxen and hauled to the threshing floor. There grain is put in stacks about 30 feet in diameter and 15 feet high. Each stack has about 5 acres of wheat in it.

Grain is knocked out of the heads by dragging a board about 2½ feet wide and 6 feet long over it. The bottom of this board is made rough by driving nails, rocks or bits of iron into it. The board is drawn around and around the stacks running over the wheat that has been pulled out from the stack and placed on the ground. A horse, team of oxen, or a donkey and oxen may be used to draw this board. The straw is run over twice with this board. First, the straw is worked to the outside, and second, back to the middle again, making a stack. After it has been run over twice the straw has become finely chopped in about 2-inch lengths. The grain is still mixed in the straw but is knocked out of the head. It takes one board working 12 hours 25 days to get one stack in this condition.

### How Wheat is Cleaned

The grain is separated from the straw by 2 methods, the old and the new. The old method, which is still used more widely, requires much more time and labor. The first step in the so-called old method is to take a wooden fork with 6 wooden tines (teeth) and throw the straw and grain into the air. The wind will blow the straw and let the grain fall to the ground. After this step is

completed the wheat has become mixed with a lot of dirt and foreign particles. To separate the wheat from this foreign material, 2 screens made from intestines of goats are used. The first is a fine screen to separate particles that are smaller than the grain. The mixture of wheat and larger particles are poured in the coarse screen. This time the wheat falls thru, leaving large particles on the screen. After being run thru the 2 screens, wheat is ready to be sacked.

The new method which is beginning to be adopted is much faster. A small hand-operated separator is used. It stands about 4 feet high, and is about 2½ feet wide and 5 feet long. It has a fan and 2 shaking screens, one coarse and one fine grain. As finely chopped mixture of straw and grain is fed into the hand-operated machine, the fan on the bottom blows the straw. As wheat falls down off the 2 shaking screens it is separated from other foreign materials. Wheat falls to the ground clean and is ready to be sacked. It is sacked in burlap bags, loaded on a camel or donkey and hauled to the home where it will be used for flour or else to market. This method of harvesting wheat

(Continued on Page 21)

## GRANDMA . . . . . By Charles Kuhn



is not only used on the small farms but also on the large ones such as Mr. Scraft's 20,000-acre farm.

From the time the wheat is out by hand until it is sacked in burlap bags, it takes the farmer and his family 2 months (more if the old method of separation is used) for every 5 acres. You may wonder about spoilage due to rainfall during this period. There is no worry because it does not rain here from the 1st of May until the 1st of October, but during the winter months rainfall is very heavy.

Harvesting in this manner is very expensive. Even the labor is very cheap (about 40 cents a day) it is very costly because of the great length of time. It takes 2 months or longer to do a job here that we could do in less than 2 hours. We might pay our total combine operator \$2.50 an hour and still have our total labor cost less than 1/8 of what it is here. It is costly also because much of the grain is lost in the long drawn out process. E. R. Raymond, Agriculture Attache to Lebanon and Syria, has estimated that 25 per cent of the wheat is lost during harvesting.

**Plenty of Uses for Straw**

The finely chopped straw which is left is used for feeding the donkey, oxen and camels and in making adobe. In the latter the straw is mixed with the mud as blocks are being made. The straw helps to hold the mud together. If there are stubbles of wheat left in the field it is pastured by sheep and goats. All of the small grains are harvested in this manner. I used wheat only to make it more easy to picture. Here's how their bread is made. First, wheat is worked in water and allowed to dry. After it has dried, wheat is ground by placing it little by little in a hollow stone and using a stone to hammer it. Well, after the flour is ground it is mixed with water (using no yeast) until a heavy paste is obtained. It is then ready for baking. A handful about as big as a baseball is taken out of the pan, rolled and flattened. Then the flat piece, about 6 inches in diameter, is rolled over the arm until it becomes about 2 feet in diameter and paper thin. The thin sheet of dough is then flopped on a hot disk about 2 feet in diameter, which has a fire under it made from cow droppings. The bread is allowed to bake for about one minute. It tastes much like the crust of our whole-wheat bread and is sort of tough. It is the main food for village people.

**No Rain in Summer**

I have mentioned several times that there is no rainfall here during the summer, you may wonder how the people grow their crops. For small grains enough water is stored in the ground during the winter so that they will produce a crop. However, most of the fruit and garden crops have to be irrigated. These crops include apples, bananas, peaches, pears, tomatoes, potatoes, peas, corn and many more. Water that can be used for irrigation is limited, however. Most of the water used comes from mountain springs fed by winter rains. There are many of these springs in the Lebanese and Anti-Lebanese mountains. Sometimes one stream of water may be fed by 15 springs all running a 10-inch stream of water all summer long.

Point 4 is investigating the possibility of other water supplies, such as a dam or by pumping. However, at present a dam seems improbable because there is no large river to build one on. The latter, pumping, could be very probable because the water table is less than 60 feet from the surface. However, under the conditions here it may not be profitable to pump it even at that.

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# Thoughts TO LIVE BY

## "Together"

WERE YOU EVER in a strange city? As you walked down the street, did the unfamiliar faces of the people you met make you lonesome? You can be lonesome in the city as well as in the country—as lonely in a penthouse as in a lighthouse. Whether you are in a crowd or all alone, loneliness is a heavy burden. If you are lonely, take heart. The news is good.

"Come unto me all ye that labour and are heavy laden, and I will give you rest. Take my yoke upon you, and learn of me. For my yoke is easy and my burden is light."

You know what a yoke is. It is something that rests upon the necks of two oxen. A "U" shaped piece hangs down on each side. It fits under the neck of each ox, keeping the yoke in place. The oxen are yoked together. With the yoke, they pull the plow.

The Master invites you to be yoked with him. Together, you will be a team. He will help you plow a straight or contour furrow, whichever is better. Yoked with him, you won't get lost or fall by the wayside. Furthermore, by sharing your joys, he will double them, and by sharing your sorrows, he will cut them in half. With him by your side, you

never will find yourself lonely again.

But how do you come to feel His presence? By practice. By changing your thought pattern from a solo to a duet. Frank Laubach, who is teaching the illiterate to read, did it. He tried to think about God once a minute for 5 minutes. His thought might have been a flash such as this: "That's a beautiful flower, God-----. Still with me? -----Here comes Jim Alexander." And as he greets Jim, he silently prays, "Is there some word of encouragement I can speak to this friend?" Dr. Laubach found this discipline to be the hardest thing he ever did. But once he mastered it, other things became easy.

Was Paul thinking about practicing the Presence when he said, "Pray without ceasing." Isn't that why he could say, "I can do all things thru Christ which strengtheneth me?" When Paul started practicing the presence of Christ, the pieces of his life began to fall into their proper places. Paul did not walk alone. He was in Christ, and Christ was in him. They made a team that nothing could separate; nothing could stop. They were yoked together as you can be yoked with Christ. May God be with you always.

—Larry Schwarz

## USDA Reorganization Gets Underway By Secretary Benson This Month

By CLIF STRATTON, Kansas Farmer's National Affairs Editor

ANNOUNCEMENT of Secretary of Agriculture Ezra T. Benson's reorganization of the Department is due this month. It is expected to go into effect before the end of October.

The stream-lined USDA is to be built around these 5 groups—possibly 6:

1. Commodity Marketing and Adjustment: Commodity Credit Corporation, Production & Marketing, Crop Insurance, and Commodity Exchange Authority.
2. Foreign Agriculture Service.
3. Research, Extension and Land Use: Agricultural Research Administration, Extension Service, Forest Service, Soil Conservation Service, Agricultural Conservation Program, Bureau of Agricultural Economics, Flood Prevention and Land and Water Utilization.
4. Agricultural Credit: Farm Credit Administration and Rural Electrification Administration.
5. Department Administration: "housekeeping" functions, information, library and personnel.

Note: Farm Credit Administration now is independent of USDA, except for housing. Apparently there has been some question about what to do with Co-operative Marketing and Research, in Farm Credit Administration. At this writing, apparently it has not been definitely decided whether to put CM&R in Agricultural Research Division or make it an independent bureau.

Attempt is being made to define more clearly the "chain of command" in the Department, and to simplify lines of communication established by the "Planners" reorganization under New Deal, which made the Department into some resemblance to Charles Dickens' Circumlocution Office.

It also is, perhaps wishfully, hoped to cut payrolls some 15 per cent. Attempt to reduce personnel 10 per cent

last spring resulted in cutting from 79,163 on July 31, 1952, to 78,006 on July 31, 1953. However, actual cut was larger; payrolls had expanded somewhat during the latter months of 1952.

Under the reorganization, PMA is scheduled to become primarily a marketing agency, with commodity branches. Conservation program already has been taken from PMA and turned over to Soil Conservation Service; full-time county managers and state administrative officers largely have taken over administrative work of farmer committees.

In the new setup the Extension service will have a larger part, with more direct responsibility for USDA field work; more to say about policy and procedural matters. Also, indirectly, it will wield a good deal more influence on USDA programs, thru appointment of field committees and personnel. Taking over of SCS by Extension, agitated for some time, still looks to be a long way in the future, if ever.

Proposals for a 2-price system for wheat—producers to get 90 or 100 per cent parity government support price for that percentage of total crop estimated for domestic consumption as food; remainder to be sold in export and for feed in domestic market for

(Continued on Page 24)

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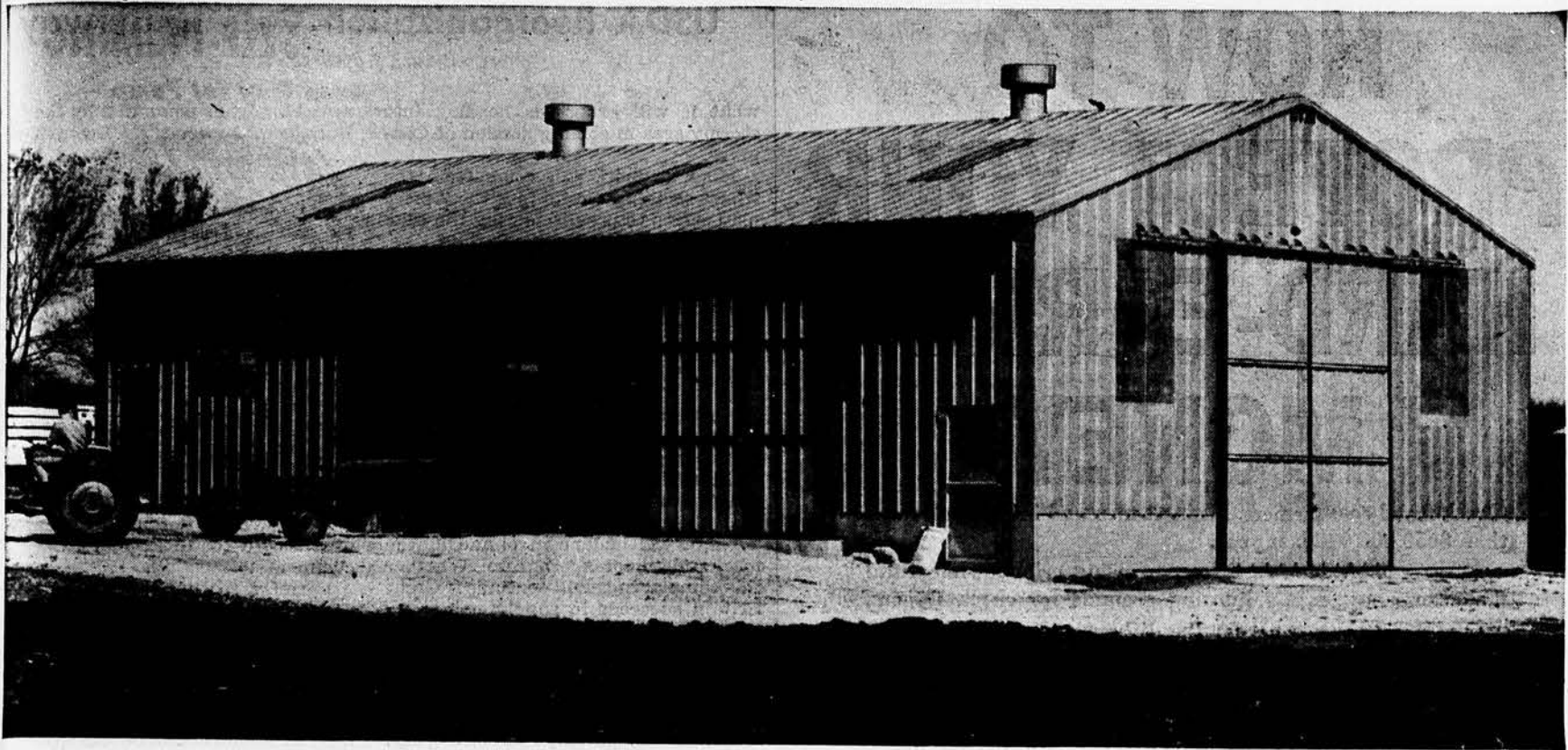
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## USDA Reorganization Gets Underway

(Continued from Page 22)

what it will bring—is heading into stormy seas in coming session of Congress.

Much support will come from the wheat sections. On its face the 2-price plan seems to promise eating the cake and keeping it at the same time.

The Corn Belt will not be too happy over wheat being sold for feed at "corn prices"—according to reports from that territory. For bacon-type hogs protein wheat is in some respects a better feed than "carbohydrate" corn.

In the Cotton Belt, many will see the 2-price system for wheat as the opening wedge for applying it to cotton. Cotton growers are not certain they will like that.

Tobacco growers are well satisfied with the present program. They have acreages well under control, and like the marketing quotas program. Whether this complacency will continue if Great Britain succeeds in supplying her tobacco requirements from her African colonies could be another story. But that has not actually happened yet.

Farm Bureau heads do not think too much of the 2-price system; they see it continuing, perhaps encouraging, surpluses. The National Grange has not declared for it; in the Grange setup are several strong believers in a 2-price system. Farmer's Union can be counted on to oppose. FU wants guaranteed annual income for farmers.

It would be taking too much for granted to say that the next session of Congress will view 2-price with hostility; but as of now it seems likely to view it with skepticism.

Here are the cash receipts from farming, United States, for the 6-months periods, January to June, 1952 and 1953,

respectively, as computed by the U. S. Bureau of Agricultural Economics:

Source	1952	1953
Farm marketings and CCC loans	13,264	12,317
Livestock and products	8,892	8,111
Meat animals	4,956	4,211
Dairying	2,275	2,111
Poultry and eggs	1,529	1,688
Other	129	100
Crops	4,372	4,311
Food grains	614	611
Feed crops	874	1,111
Cotton (lint and seed)	707	711
Oil-bearing crops	189	211
Tobacco	185	211
Vegetables	883	711
Fruits and tree nuts	415	411
Other	505	511
Government payments	200	111
Total cash receipts	13,464	12,711

Summarizing the January thru August record for the 2 years, the BAE comments:

Farmers received about 17.7 billion dollars from marketings in the first 8 months of 1953, 6 per cent less than a year ago. Average prices were down about 10 per cent. Volume of marketings was a little larger.

Receipts from livestock and products were 11 billion dollars, down 7 per cent from the corresponding figure in 1952. A sharp drop in average prices of cattle held receipts from meat animals 15 per cent below last year. Dairy receipts were 5 per cent lower, with marketings of fluid milk up slightly and average prices down 8 per cent.

Receipts from poultry and eggs were 11 per cent larger than a year ago.

Crop receipts from January thru August were 6.7 billion dollars, 4 per cent below last year, largely because of price declines. Receipts from wheat, cotton, truck crops and potatoes were down.

## JOHN GOES TO VISIT INDIA

Thirty Indian boys first came to live in various sections of the United States. Now we are returning their call

Remember, Kansas Farmer promised to bring you letters from 2 of our Kansas 4-H'ers who are spending some time on farms overseas this year. Here is the second letter from John Ferrell, of Mt. Hope, in Sedgwick county, who has gone to India.

DEAR MR. GILKESON: (Beirut, Lebanon, September 1, 1953) In our travels across the U. S. and Europe, on the way to India, we 10 American IFYE's have stayed in many fine hotels, but the one Pan American Airlines has placed us in tonight is by far the most outstanding. Three of us have 2 adjoining rooms, a shower and bath, electric refrigerator, 3 telephones, 2 radios and 2 writing desks. This hotel is very modern and probably was built by one of the oil companies.

I mention 10 American IFYE's. They are 10 boys all over 22 years old who have been chosen from the states—Ohio, Minnesota, Utah, New Mexico and Kansas. These IFYE's are sponsored by the Ford Foundation and the National 4-H Foundation under an International Farm Youth Exchange Program with India. This type program is a bit different than the one Don Weixelman has been writing about, so I will try to explain its broad outlines. The Ford Foundation wanted to try a person-to-person, locality-to-locality exchange with a fairly large group. So in April of this year 30 Indian boys came to the U. S. and lived and worked with the 10 outbound boys. This for me meant that on June 21, Vidosh Kumae, of India, came to live with my sister, Mrs. Jane Couble, and her husband, Dean Couble, on their farm southwest of Mt. Hope.

During the 5 weeks we were together we cut wheat, plowed, cultivated maize and put up alfalfa, also there was time



**JOHN FERRELL**  
 Mt. Hope, Sedgwick County

for many social events. July 28, Vidosh and I, with the other delegates, both American and Indian, met in Kansas City for a conference, where both the Americans and Indians received some of the more advanced orientation needed for this type of an exchange. Then after a brief stay at home I joined the other boys from Kansas at Newton, where we boarded the Santa Fe for Washington.

In Washington, we took our final training, which was very intensive, especially that concerning Asiatic foreign policy. One thing, during our stay in Washington we were honored by being invited by G. L. Metha, the Indian Ambassador, to the Indian Embassy for tea. You can imagine 10 big farm

(Continued on Page 25)



boys daintily sipping tea and nibbling on wafers. When this training period was completed we went up to New York, where we visited the United Nations and the Ford Foundation home office, and then on the morning of August 21, boarded the S. S. Constitution for Naples, Italy.

This I will say: The 10 American boys all stayed up on deck till the Old Lady had slipped past.

On the trip over, we 10 boys really became friends. These boys' names are: Bill Casper, Utah; Bob Bagwell and Larry Saricciano, New Mexico; Don Kvasnicka and Jim Pederson, Minnesota; Dave Dowler and Harry Rittenhouse, Ohio; Duane Traylor, Freddy Funk and myself, Kansas. We came from ranches, wheat farms, truck gardens, dairies and corn ground, so we think there are fairly good representatives of American agriculture with us.

Crossing the Atlantic was a great experience, even tho most of the time was spent in meetings. No one in the party was seasick. The mess stewards say it was because we ate well. We were received very well by the other passengers because 95 per cent were Israeli pioneers who were returning there to take up land even tho they had never been on a farm before. When we touched at Gibraltar I put a letter in the mail to *Kansas Farmer*.—An India-bound IFYE—*John Ferrell*.

**More Hog Money**

Tips on better hog production are found in the booklet, "The Purina Hog Program," of the Ralston Purina Company. For your free copy, write Farm Service Editor, *Kansas Farmer*, Topeka, Kan.

**Riley County Honors Dan Casement**

A highlight of the 1953 Riley county fair, at Manhattan, was a tribute paid to Dan Casement, nationally-known stockman who died March 7. More than 3,000 persons stood in silent respect as the famous quarter horse, The Deuce, of the Hereford breeder was led into the arena of the county fairgrounds. Boyd Cathcart, of Kansas State College, led the 18-year-old sorrel stallion into the arena as Bill Koch, Manhattan, sang "Empty Saddles." Sixty mounted riders doffed their white Stetson hats. The American Legion color guard from Ogden stood at attention as taps sounded, and later when 3 volleys were fired in honor of "Captain Dan," a World War I officer.

**Unveil a Plaque**

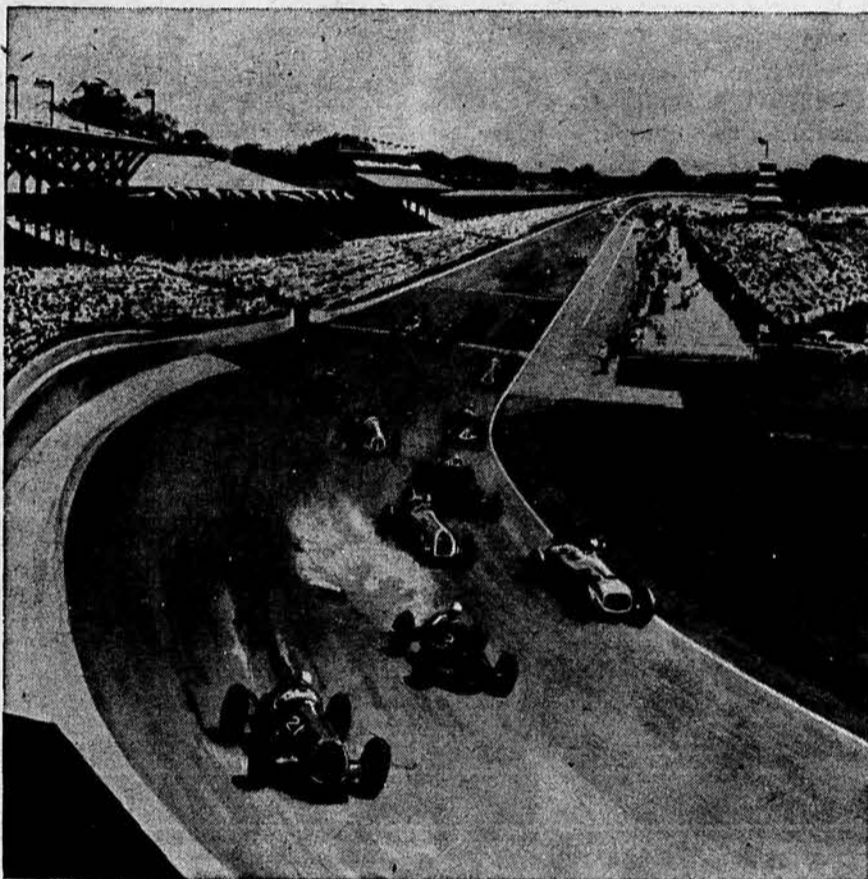
Orville Burtis, Riley county rancher and president of the American Quarter Horse Association, unveiled a plaque in tribute to Mr. Casement. Inscribed on the bronze memorial, to be hung in Casement Hall on the fairgrounds, were these words written by Dr. F. D. Farrell, president emeritus of Kansas State College: "Casement Hall—named by his fellow citizens for Dan Dillon Casement, 1868-1953, in grateful appreciation of his example of superior husbandry, splendid citizenship, undaunted courage and true patriotism, September 1, 1953." Jack Casement, son, and his family, attended the ceremony. *Kansas Farmer* for March 21, 1953, brought you a complete story of Mr. Casement's livestock career.

**For Hereford Producer**

The American Hereford Association has a new equipment booklet out for the Hereford producer. It's a 48-page manual of suggestions and ideas gathered from breeders over the country. For your copy of "Equipment for the Hereford Producer," write Farm Service Editor, *Kansas Farmer*, Topeka, Kan. No charge.

# 1953 WINNER AT INDIANAPOLIS

Outracing and outlasting a stiff field of competition, Bill Vukovich averaged 128.74 mph to win America's longest, toughest auto race. To assure peak performance all the way Bill Vukovich used world-famous Mobiloil!



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**FOR YOUR CAR OR FARM EQUIPMENT?**

Wherever engines must deliver top performance—on the track or on the farm—Mobiloil protection *pays off!* In your car, tractor and truck its new super detergent action drastically reduces engine wear . . . saves fuel and oil . . . keeps engines running smoother, quieter, far longer.

For the finest protection for *all* your farm equipment insist on Mobil Farm Lubrication. There's a complete line of Mobil greases and oils to guard against every type of wear.

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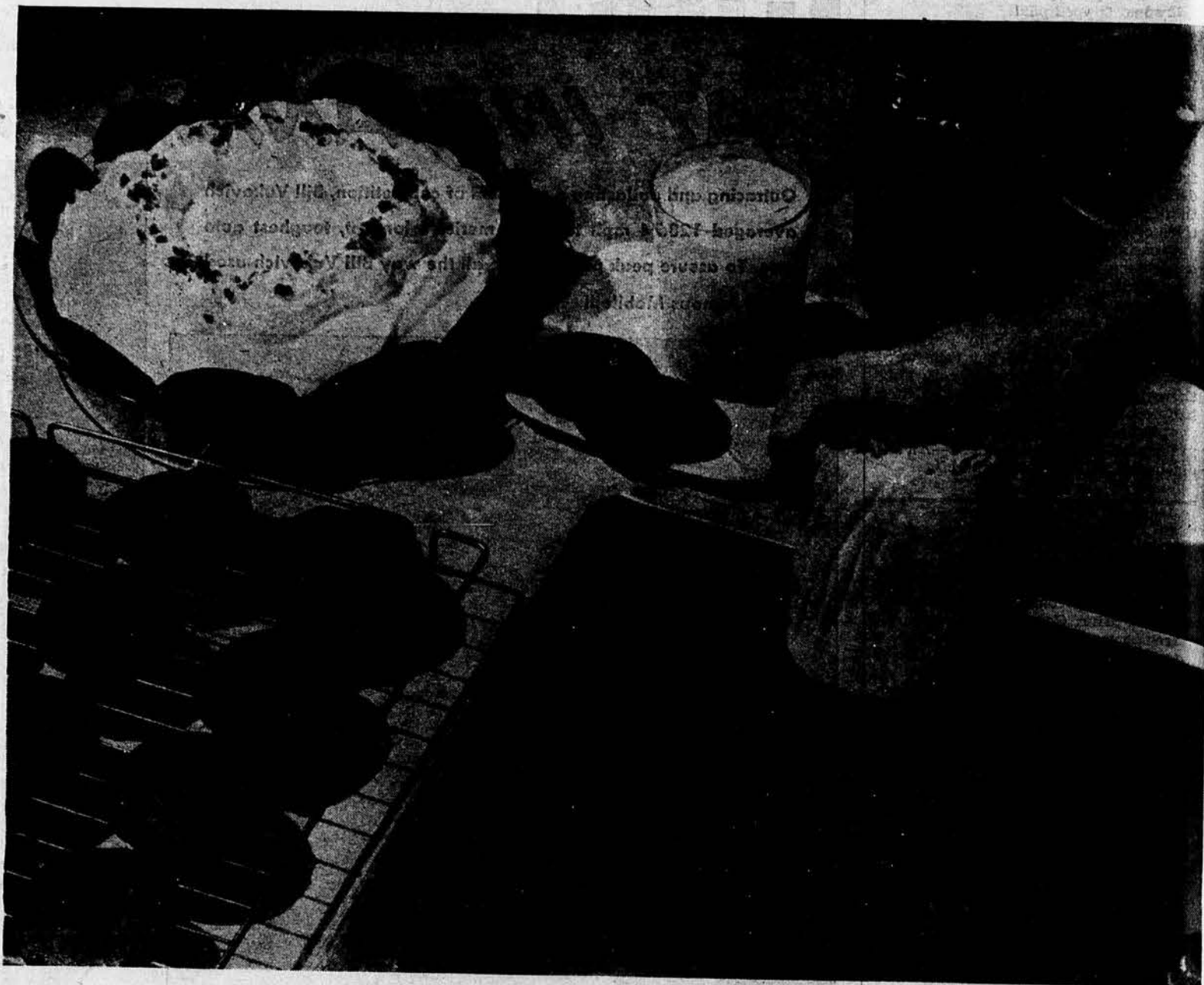


Call in Your Mobilgas-Mobiloil Man



# Kansas Farm Home and Family

By FLORENCE MCKINNEY



WONDERFUL MOLASSES-GINGER COOKIES for the cookie jar will stay moist and fresh for days.

## Cookies . . . FOR THE COOKIE JAR

FOR that long wait from the time school's out until suppertime, what's better than a cookie and a glass of milk? One reason cookie baking is so popular is because it's easy. The beginner can be a marvelous success. Cookies with new flavor and texture are on the wanted list and here they are.

### Molasses-Ginger Cookies

Ginger and molasses! What an unbeatable combination when combined in cookies.

- |                                 |                                 |
|---------------------------------|---------------------------------|
| 3 cups sifted all-purpose flour | 2 teaspoons ginger              |
| 1/2 cup sugar                   | 2 teaspoons cinnamon            |
| 1 teaspoon salt                 | 3/4 cup shortening              |
| 1 teaspoon soda                 | 1 1/2 cups unsulphured molasses |
|                                 | 1 tablespoon vinegar            |

Sift flour, sugar, salt, soda, ginger and cinnamon together into a mixing bowl. Cut in shortening with pastry blender or 2 knives until mixture resembles coarse meal. Heat molasses just to boiling point, add vinegar. Grad-

ually stir molasses into dry mixture and mix well. Measure 1 level teaspoon of batter and roll between palms of hands to form balls. Place on ungreased cookie sheet. Flatten by pressing with bottom of glass covered with damp cloth. Dip bottom of glass in water when cloth sticks to dough. Bake in moderately hot oven (400°) 5 to 6 minutes. Store in tightly-covered container. Makes 14 dozen small cookies.

### Applesauce Cookies

- |                                     |                          |
|-------------------------------------|--------------------------|
| 1/2 cup butter or margarine         | 1/4 teaspoon salt        |
| 1 cup sugar                         | 1 teaspoon baking powder |
| 1 egg                               | 1/4 teaspoon soda        |
| 1/2 cup thick applesauce            | 1/2 teaspoon cinnamon    |
| 1 3/4 cups sifted all-purpose flour | 1/4 teaspoon cloves      |
|                                     | 1/2 cup seedless raisins |

Cream shortening. Add sugar gradually, creaming together until light. Add egg and beat well. Stir in applesauce. Sift together flour, salt, baking powder, soda, cinnamon and cloves.

Add dry ingredients in fourths, mixing well after each addition. Fold in raisins. Drop by teaspoons 2 inches apart on lightly-greased cookie sheets. Bake in moderate oven (375°) for 15 minutes. Makes 4 dozen 2-inch cookies.

### Quick-Mix Oatmeal Cookies

- |                                |                                  |
|--------------------------------|----------------------------------|
| 1 cup sifted all-purpose flour | 1 egg                            |
| 1/2 teaspoon soda              | 2 tablespoons orange juice       |
| 1/2 teaspoon salt              | 1 1/2 cups rolled oats, uncooked |
| 1/2 cup shortening             | 1 teaspoon grated orange rind    |
| 1/2 cup brown sugar            | 1/2 cup coconut                  |
| 1/2 cup granulated sugar       |                                  |

Sift together flour, soda and salt into bowl. Add shortening, brown sugar and granulated sugar, egg and orange juice. Beat until smooth, about 2 minutes. Fold in rolled oats, grated orange rind and coconut. Drop from a teaspoon onto a greased baking sheet and bake in a moderate oven (375°) 12 to 15 minutes. Makes about 3 dozen.

[Continued on Page 27]

**Chocolate-Nut Wafers**

They're really a drop-type cookie, but daintier. They're thin and small, so be careful and don't overbake them.

- 1/4 cup butter
- 1/4 cup shortening
- 3/4 cup sugar (beet or cane)
- 1/4 cup brown sugar, packed
- 2 eggs
- 2 teaspoons vanilla
- 2 one-ounce cakes unsweetened chocolate
- 2/3 cup sifted all-purpose flour
- 3/4 teaspoon salt
- 1 cup nuts, chopped

Cream together butter and shortening and sugars. Beat in eggs, one at a time. Blend in vanilla and melted chocolate. Stir in sifted dry ingredients and nuts. Drop dough by teaspoonfuls, about 2 inches apart, onto lightly-greased cookie sheets. Bake in moderate oven (375°) about 6 minutes. Remove from sheets and cool on racks. Makes about 4 dozen 2-inch cookies.

**Date-Oatmeal Cookies**

- 1 cup shortening
- 1 cup brown sugar
- 2 1/2 cups sifted all-purpose flour
- 1 teaspoon baking powder
- 1 teaspoon salt
- 2 cups rolled oats, uncooked
- 1/2 cup milk

Cream together fat and sugar until light. Sift together flour, baking powder and salt. Add rolled oats. Add dry ingredients alternately with milk to creamed mixture, blending well. Place dough on floured board, roll, then cut with cookie cutter. Or, shape into rolls, wrap in waxed paper and chill well. Slice and arrange half the slices on greased cookie sheet. Place 1 teaspoon date-nut filling on each and top with remaining slices. Press edges together with fork. Bake in slow oven (325°) 15 to 20 minutes. Makes about 2 1/2 dozen filled cookies.

**DATE-NUT FILLING**

- 1/2 pound pitted dates, chopped
- 1/4 cup brown sugar
- 1/4 cup hot water
- 1/4 cup chopped nuts

Combine dates, sugar and water. Cook until thick, add nuts and cool.

**Happy School Days**

Parties in early fall about school days are lots of fun. Our leaflet, "An Old-Time School Days Party," suggests 2 games followed by a short playlet requiring 8 women or girls. Very little rehearsing is necessary.

"A Kid School Party for Grown-Ups," a 3-page leaflet, contains clever suggestions for invitations, decorations and several games for a hilarious good time.

Another school party suggestion to contribute to your September party fun is "A School Days Party." It features games in "readin'," "writin'" and "arithmatic" with a clever school cafeteria or lunch box system for serving refreshments.

Send your requests for any or all of these party leaflets to Entertainment Editor, Kansas Farmer, Topeka, Kan. Each copy 3c.

**Journey's End**

I like the roads on an autumn day  
That lead far off the broad highway  
With Bill, my pal, and Shep, my dog,  
Strange pictures find in distant fog,  
That hang like smoke along the creek  
As we would some adventure seek,  
In grove of trees or deep ravine,  
Or old nest in an evergreen,  
And find some treasure by the road,  
Or watch a harmless hopping toad.  
When creeping comes the dark, we know  
Our pace has been a trifle slow,  
Then thoughts dwell not on treasure-trove  
But good food cooking on the stove.  
—Camilla Walch Wilson.

**Contest Is Over and Awards Are Made**

AT LAST we've finished reading all the stories sent us by the 122 contestants in our story-writing contest. For the 7th and 8th graders, "Why I Like to Live on a Farm," proved to be the most popular subject we have chosen. All have been graded, the 3 winners have been notified, they have received their cash and now with the help of their school officials are selecting books for school libraries. Teachers were asked to send us only the best ones from their schools, so hundreds of other stories actually were written.

It's been fun! There were so many fine stories that we found it difficult to choose the winners. Contestants told us about the freedom of farm living, advantages offered in 4-H Clubs, their love of farm animals, sunsets, scenery, the woods, prairies and the merit in working together on the farm.

Kansas Farmer sponsored the contest with one main purpose in mind; because a well-read person is likely to be an intelligent one and love for reading begins in childhood. Books that soon will be on the way to the schools are selected by winners and school officials from a list compiled by Mrs. Ruth Gagliardo, Kansas State Teacher's Association and editor of the Children's Book Shelf in the Kansas Teacher magazine with the assistance of Zelia French, Traveling Library Commission, Topeka.

**Three Top Winners**

Faye Vandike, St. Francis, Cheyenne county in the far northwest corner of the state, wins first prize. For herself, she received \$25 cash and her rural school will have \$100 worth of books.

Second prize goes to Robert W. Lewis, Larned, Pawnee county. Robert received \$15 and his school soon will get \$75 worth of books.

Mary Robe, Burlington, Coffey county, wins third prize. She won \$10 for herself and her rural school will get \$50 worth of books.

Faye Vandike graduated last spring from the Blue Ridge rural school where she spent all 8 years and is now entered as freshman in St. Francis community high school. She is 14 years old and lives with her parents and brother on a 900-acre farm in the northwest corner of the county. Her family also operates 2,000 additional acres across the state line in Colorado, which is mostly in pasture. Last year Blue Ridge school had 13 pupils with Mrs. Grace Bannister as teacher. Faye writes that she will deposit her prize money in her savings account at the bank. Her prize winning story follows:

**Why I Like to Live on a Farm**

There are many reasons why I like to live on a farm. The main reason is that I love my home where I was born and have always lived.

The farm furnishes plenty of milk, eggs and vegetables which make healthy bodies. Farm boys and girls work and play together in fresh air and sunshine and form clean habits.

I like the freedom I can have on the farm. I may arise when I choose without disturbing others. There is room to play and I can make as much noise as I wish.

On the farm I have a dog all my own. My dog goes with me when I ride the pony, when I go after the cow, when I gather eggs, or when I ride my bicycle. Sometimes I take my dog with me when I go with Dad in the truck. She is always chasing rabbits around the place.

There are animals which I enjoy on the farm. My brother and I have many pets which we couldn't have in town. There is no more fun than to find my old pet cat with a nest of little kittens in the barn loft. I claim all of them, give them names and fix a new home for them that is more convenient for me when I wish to play with them.

In spring there are large numbers of baby calves, little pigs and maybe a new colt. The old duck usually brings up a bunch of little ducklings.



FAYE VANDIKE, Cheyenne county, wins first prize for herself and the Blue Ridge Rural School from which she graduated last spring.

There is much excitement on the farm. We get excited when the cattle are moved to the big pasture, or at branding time. When Dad gets a new tractor or some other new machinery everyone has to try it out. Harvest time is always exciting. There is excitement when a sudden thunderstorm comes up and we have to hurry to get the chickens and turkeys to shelter before they drown. What fun it is to see a rainbow spanning across the horizon!

The farm is a beautiful place to live. Nothing is prettier than a green pasture with cattle grazing on it, a windmill to one side, and off in the distance another farm partly in view. From my

west window I can see some of the most beautiful sunsets. The many fields and pastures resemble a huge checkerboard.

It is fun to play and work on the farm. Our work is not always easy but we enjoy it because we can all work together.

Our rural school has many activities of variety. Every farm family has the opportunity of being a part of the whole community. Churches carry on their work and parents and children all have a part to play in 4-H Clubs.

Next year I will be going to high school in town, but I will be glad to get back to my beloved farm for the week ends.

**Sumner County Woman Wins on 10 Entries**

Mrs. G. R. Overall, Corbin, brought 10 garments in the economy class to the Kansas Free Fair at Topeka and won 960 points out of a possible 1,000. Garments included a cotton dress for 3-year-old, woman's dress, cotton blouse, work dress, adult's dress (not washable), child's cotton dress over 3 years, blouse other than cotton, and complete outfit for adult.

A Kenmore sewing machine with all attachments was her prize, given by a local merchant. Mrs. Overall has had lots of experience in fair competition, state fairs as well as county fairs.

**Attention!**

**Home Demonstration Units**

Mrs. Dorothy Martin has replaced Mary Palmer as director of volunteer services for the Topeka State Hospital, Topeka, officials there announce. Home Demonstration Units or other farm groups wishing to send things to the hospital should address them to Mrs. Martin.

**SEW IT NOW**

9051—Your favorite classic. Depend on it to go everywhere at the ring of the phone. Misses' sizes 12 to 20; 30 to 42. Size 16 takes 4 1/2 yards 35-inch fabric.

9204—Five aprons, each one different. So pretty, you'll want them all. Misses' sizes small (14-16) medium (18-20) large (40-42). Small size bib apron takes 1 1/4 yards 35-inch fabric; 1 yard contrast.

9152—Slenderizing 2-piecer for women. Soft details, gathers at yoke, new collar, paneled skirt. Women's sizes 34-50. Size 36 takes 4 1/4 yards 39-inch fabric.



9051  
SIZES  
12-20  
30-42



9204  
SIZES  
S-14-16  
M-18-20  
L-40-42



9152 SIZES 34-50

Patterns are 30 cents each. Address Fashion Editor, Kansas Farmer, Topeka. For first-class mailing, add 5 cents more for each.



M-M-M...  
HALLOWEEN DROP DOUGHNUTS  
MADE WITH  
**RED STAR Special Active DRY YEAST**



**HALLOWEEN DROP DOUGHNUTS**

*Crispy brown outside, delicate and fluffy inside, an easy-to-make holiday treat.*

ADD 2 pkg. RED STAR Special Active Dry Yeast to 1/2 cup warm water (110°-115°). Let stand. SCALD 3/4 cup milk. Pour into large bowl with 1/4 cup sugar, 1 tsp. salt, 1/2 tsp. each of mace and nutmeg. Blend together and cool to lukewarm. STIR yeast-mixture well and pour into bowl. MIX IN 1/2 cup soft shortening, 2 eggs, with 3 1/2 cups sifted flour. BEAT until batter is smooth—about 100 strokes. SCRAPE down dough from sides of bowl. COVER and let rise in warm place until doubled—about 30 minutes. STIR down and let rest while fat is heating to 350° (to test—a 1-in. cube of bread browns in 60 seconds). DROP batter from teaspoon into hot fat. Turn when edges show color, frying until

golden brown—about 1 1/2 minutes on each side.

**DO'S FOR DOUGHNUTS**

- DO have fat 1 1/2 to 2-in. deep in heavy pan for shallow fat frying.
- DO keep temperature around 350-375 degrees. Too hot fat forms crust before doughnuts are cooked through, too cool fat means doughnuts will soak up fat.
- DO turn doughnuts when edges show golden brown color.
- DO drain doughnuts on absorbent paper, such as paper toweling, near a warm place.
- DO sugar coat while still warm.



RED STAR IS THE FIRST 3-WAY IMPROVED DRY YEAST

QUICKER DISSOLVING...  
QUICKER RISING...  
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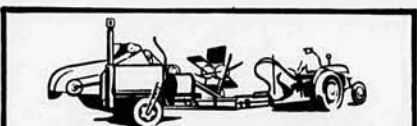
**Wake Up To More Comfort**

Without Nagging Backache

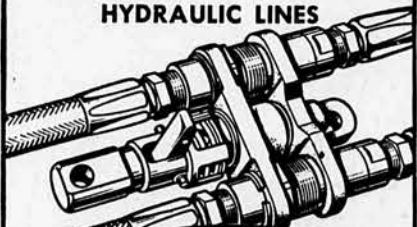
Nagging backache, loss of pep and energy, headaches and dizziness may be due to slowdown of kidney function. Doctors say good kidney function is very important to good health. When some everyday condition, such as stress and strain, causes this important function to slow down, many folks suffer nagging backache—feel miserable. Minor bladder irritations due to cold or wrong diet may cause getting up nights or frequent passages.

Don't neglect your kidneys if these conditions bother you. Try Doan's Pills—a mild diuretic. Used successfully by millions for over 50 years. It's amazing how many times Doan's give happy relief from these discomforts—help the 15 miles of kidney tubes and filters flush out waste. Get Doan's Pills today!

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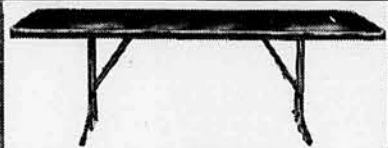


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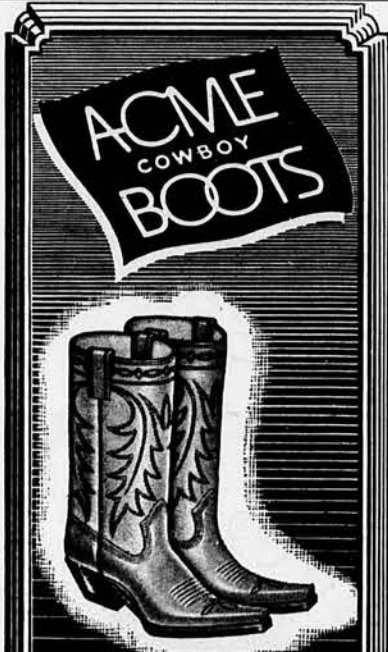
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Prices on most styles:

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- ladies' — \$12 95 to 17 95
- men's — \$13 95 to 19 95

**WORLD'S LARGEST MAKERS OF COWBOY BOOTS**

**KNOW YOUR BIRDS . . .**

By L. B. CARSON

**The Flicker**

*Like puppets on a guided string  
They bow enraptured, sway and swing,  
To us, their antics seem absurd,  
But who are we, to judge this bird.*

IN OUR BOYHOOD, we called them yellow-hammers, but whether you call them flickers, yellow-hammers or any of the more than a hundred names by which this bird is known, makes little difference. The fact he has so many names means only that he is one of the best-known members of the woodpecker family. Slightly larger than a robin, this bird is one of your friendly neighbors and can be found either on your lawn or one of the adjacent trees. The crescent-shaped black marking on the breast, the white rump, the spotted lines on the belly, the brown back with black bars, the red patch back of the head, all are distinctive flicker marks. The male of the northern and southern forms has a black whisker mark extending slightly downward from the base of the bill. Eastern birds are referred to as yellow-shafted flickers by reason of the yellowish tinge shown by their primaries while in flight. Western birds show a red whisker on the males with reddish primaries and tail feathers and are known as red-shafted flickers. Their songs are identical.

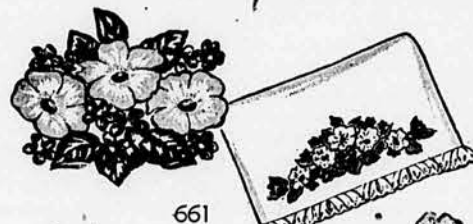
This bird is perfectly at home in forests, parks, orchards, yards or trees bordering streets or highways and ranges from Alaska to the Gulf of Mexico and often spends the winter in this area. Insects form the major portion of this bird's food and includes many which are harmful to orchards and farms. Ants are one of its favorite foods and that accounts for its presence on your lawn—ant hills entice flickers like ice cream does a small boy.



The flicker is well-equipped to cope with the situation for instead of a pronged tongue like the downy woodpecker this bird has a sticky saliva which gathers the ants on his tongue. The results are the same. Just how many ants a tongue 2 1/2 inches long will hold is not known, but F. E. L. Beal counted 5,000 ants in the stomach of one flicker. That sounds like the male.

(Continued on Page 29)

**NEEDLEWORK IDEAS**



661

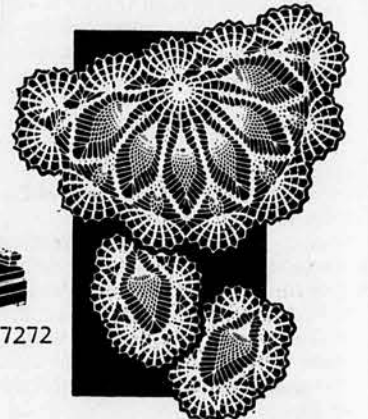
**IRON-ON COLOR DESIGNS IN BLUE, PINK, GREEN.**

7385—She'll be the prettiest girl in school. Faces are easy to embroidery. Child's sizes 2, 4, 8, 10. Transfer designs included. State size.

7286—Embroider a towel a day. "Day-of-the-week" transfer designs from 5 by 6 to 5 by 8 inches.



7272



661—Just a stroke of your iron and flowers in pink, green and blue sparkle on your linens. No embroidery. Washable. Transfer of 10 designs. Two 4 1/4 by 13; four 3 by 4; four 1 by 2 1/4 inches.

7272—Add a touch of real luxury to your room. Pineapple design crochet forms chair set. Directions included.

7385 SIZES 2-10



7286

Patterns are 25 cents each. Address Needlework Editor, Kansas Farmer, Topeka. For first-class mailing, add 5 cents more for each.

ings of a good stomach-ache, but the birds are apparently not troubled. When insects are not available, various fruits and berries are eaten.

Habits of this bird are well-described by T. Gilbert Pearson when he wrote, "In the mating season flickers are very noisy, and their antics, as they dodge about the trees or bow to each other, are most amusing. The female is coy at first, and the male follows her from tree to tree. Then becoming bolder, he sidles up to her, swinging his head and displaying the beauties of spread wings and tail as he softly calls, yucker, yucker, yucker, yucker. A rival male appears, and both suitors outdo themselves in prancing, bowing, and generally showing off. They keep up a great fuss and produce a greater variety of sounds than does any other bird of my acquaintance. More than 40 different notes have been recognized."

Both birds help to build the cavity which serves as their home. This is no easy chore for the opening is at least 3 inches across while the interior is much enlarged and a foot or more in depth. Usually 4 to 6 white eggs are laid in the sawdust nest.

Young are fed by regurgitation and both parents are kept busy trying to

### Outdoor Pirates' Party

Suggestions for the invitations and pirate games, high pointed by a treasure hunt, are featured in this unusual party leaflet. Send 3c with your order for, "Pirates on Parade," to Entertainment Editor, Kansas Farmer, Topeka, Kan.

satisfy the noisy, hungry brood. Where no trees are available, this bird will nest on the ground.

Flickers have one habit which is not condoned by man. They often drill holes in the siding of churches, schools or other buildings, even houses are not overlooked. This habit often causes their sudden demise. Other habits such as drumming on gutters, gables or other resonant surfaces have caused much loss of sleep, for it seems early morning is one of his favorite times.

The flicker is a real asset to other animals and birds which avail themselves of his well-built home. Screech owls, sparrowhawks, crested flycatchers, starlings and other hole-nesting birds vie with squirrels, white-footed mice and flying squirrels for such choice locations. The nesting season brings a free-for-all unless the owl happens to be there first. Then there is no contest for even the bravest of these squatters hesitates before sticking his head into the owl's sanctuary.

### Everybody Invited to Library Meeting at Hays

On October 8, 9 and 10 everybody interested in better and more books and reading will be meeting in Hays for annual sessions of the Kansas Library Association. Not only will there be librarians, library board members, but there will be discussion of phases of library service vital to and interesting to all Kansans.

"Library service needs to be expanded," says Mrs. J. C. McKinney, Lyon county, chairman of the Citizen's Library Committee. She points out that a 1951 survey showed that nearly half of the citizens of Kansas have no access whatever to local library service.

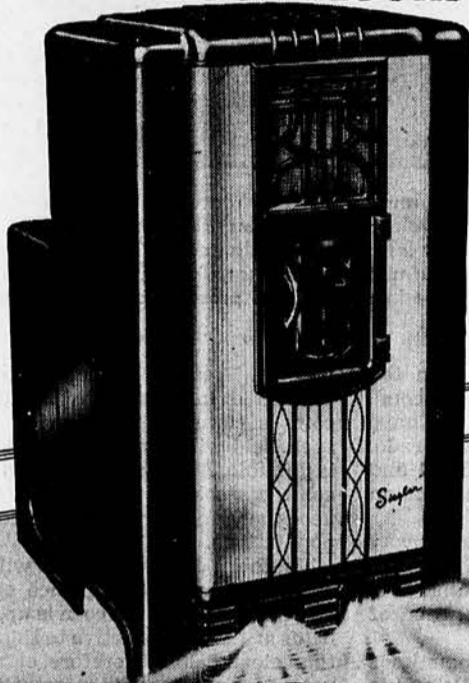
On Friday, October 9 at 2 P. M. there will be a panel discussion of particular interest to farm folks. Citizens of Kansas are going to talk for themselves. On the panel are Mrs. C. D. Churchill, St. Francis; Mrs. Verne Alden, Wellsville; Charles Pratt, Pratt; Georgiana Smurthwaite, state home demonstration leader, KSC Extension Service, Manhattan. Their subject will be "Library Service for All Kansans: Rural Reading Emphasis."

Mrs. McKinney urges that farm people attend this session particularly.

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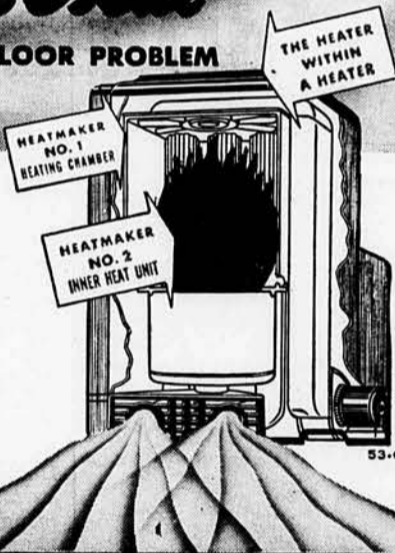
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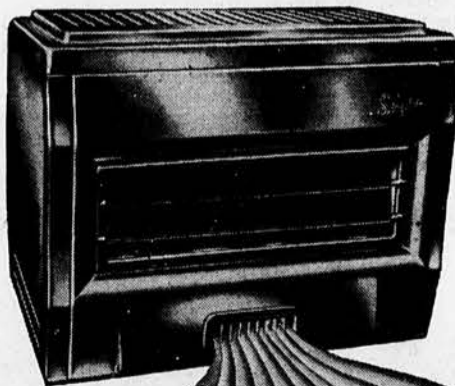
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## Toughest Corn Problem of 1953

(Continued from Page 6)



**ROTATION SYSTEMS** are best answer to corn rootworm problem. County Agent Freeman Biery, of Jewell county, shows difference between corn planted on old corn ground, at left, and corn planted on land that was not in corn last year, at right. Farm programs that do not include rotations will have to spray to control the insects, or face prospect of suffering severe crop loss to rootworm.

3 in Kansas this year has been the western, with northern running second. Western rootworms seem to have come into Kansas by way of Colorado. They are generally black-striped and are about the same size as the common cucumber beetle.

Northern rootworm came in by way of Iowa and Nebraska. Its color varies from a pale green to yellow and it is found in most of the infested area of Kansas.

The southern rootworm is sometimes mistaken for a cucumber beetle and is often called the spotted cucumber beetle. It is the least important economically and occurs thruout the area. It seems to be especially attracted to irrigated fields.

**Here's the Life Cycle**

General life cycle of the insect runs something like this:

Northern and western species lay their eggs in the cornfields in late summer and early fall. Eggs pass winter in the soil and larvae or worms hatch about the time spring-planted corn comes up. Southern corn rootworm beetles fly into fields in spring and lay their eggs after the corn is up. Larvae of all 3 species feed on roots of corn and reach maturity in 25 to 45 days.

Larvae pupate in the soil and change to the adult beetle in about 2 weeks. Beetles emerge and are present in cornfields from mid-July to September, being most abundant in mid-August. Eggs are ready to lay by a week to 10 days after appearance of beetles.

Crop rotation is highly effective against northern and western corn rootworms, since eggs are in fields that grew corn the previous year. If corn is not planted in infested fields, larvae hatching from eggs have nothing to eat and starve. Eggs are not usually laid outside of fields unless there are pollen producing weeds or volunteer corn

present. Frequently such growths are permitted in small grain stubble. If corn is planted the following year in such fields, injury by corn rootworms is possible. Alternate hosts also include some grasses and sorghums but corn is necessary for larvae to eat for large populations.

Southern corn rootworms will not be controlled by rotation since eggs are laid in fields after the corn is up. Weedy fields are more attractive to this species than clean fields. Therefore, clean cultivation may help avoid infestation.

Some farmers may find rotations impractical for their farms. For them, control is possible only thru use of insecticides. These are used to control both worms and beetles.

**Soil Treatment Will Help**

Control of worms can be effected thru soil treatment. Two insecticides have been approved by USDA—benzene hexachloride and Aldrin. They both have given good results, with Aldrin seemingly the more promising.

Nebraska has had good results from broadcasting insecticides over land and disking them in before planting. This system has not proved very satisfactory in Kansas, according to tests by Mr. Burkhardt. Probable reason for this is that Nebraskans surface-plant while Kansans list their corn.

More effective in Kansas was application of Aldrin in the row at time of planting. It can be mixed with fertilizer or, if no fertilizer is used, applied separately. Boom-type surface sprayers can be adapted to apply insecticide at time of planting at little cost. Only cost is for 2 hose from boom back to planter boxes. This method seems even better than mixing with fertilizer, according to Mr. Burkhardt.

His tests with applications in the planted row got very good larval con-

(Continued on Page 31)



**AERIAL SPRAYING** usually gets very good kill on beetles. Since beetles attack only mature plants and ground-spraying rigs would damage field of corn, aerial spraying is seeing much use in badly-infested areas. Reasons for spraying are to get beetles before they can damage silks, and before they can lay eggs for next year's hatch.

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control, prevented root injury and lodging and prevented development of beetles. There was no apparent injury to corn plants from applications.

Tests on soil treatments have not been run long enough as yet to determine whether there will be any residual effects on soil organisms due to repeated applications.

Control of beetles is restricted to aerial spraying as any ground equipment would damage mature corn plants in the field. Sprays used have been DDT and toxaphene, with much better results obtained with DDT. One test with toxaphene at 2 pounds per acre was unsatisfactory even tho cheaper.

Working with farmers and the Extension people in the most severely affected areas was Phil Marvin, partner in an agricultural chemical dealership. His background and experience in insect control was invaluable to farmers.

**Attack From the Air**

Doyle C. Dillon, aircraft sprayer in Mankato, sprayed more than 2,000 acres of corn with DDT this season. Rate of application was 2 pounds of actual DDT per acre. Uniformity in silking would allow cutting down to 1 or 1½ pounds. Residual action at 2 pounds is about one week, according to checks made by Mr. Marvin. Effects of DDT are decreased by sun, heat, and hard driving rain. All DDT is oil base to resist effects of rain.

Aerial spraying shows good control over fall army worms. Corn earworms are only slightly affected with the one spraying. Aphids and chinch bugs show no effects at all.

Some farmers waited too long before spraying this year and the costs they incurred were unnecessary expense. Some did not have a crop worth spraying as drouth and worms already had taken their toll.

Leo Ellert, Mankato, was well satisfied with results of spraying his corn. He had a beetle population of about 70 per plant and got almost complete kill.

On the John Nyland farm, near Scandia, Mr. Burkhardt checked 80 plants before and after spraying as random samples. The "before" counts ranged from 15 to 80 beetles per plant with 35 about average. Dead beetle counts showed the "before" count to be low, as 103 dead and 1 live beetle were found on one plant. Kill was very good.

Mr. Burkhardt worked with the problem all summer and had test plots totaling 12 acres in 5 counties. Tests included types of application, rotations, varietal resistance, and a test to see how many beetles it takes to cut off all silks.

This last test showed that 5 to 8 beetles would ruin pollination on an ear of corn.

**Work Toward Resistance**

Varietal resistance is an ultimate aim of workers in the field. Tests this year used 36 varieties with some coming from outside this country. It takes several years before significant results can be seen.

Mr. Burkhardt reports that a Downs farmer claims to have taken a loss from corn rootworm from 90-bushel corn last year to 50-bushel corn this year. Same fertilization and irrigation practices were used both years.

Worm counts at Formoso showed plants to have 70 to 80 worms on roots. Untrained eyes might well miss seeing these worms at all.

Phil Marvin says some fields show evidence that beetles can fly into fields as far as 150 rows and in one case, flew nearly a quarter mile. In other fields, beetles have not moved nearly this far.

The cycle for corn rootworm may be at a peak. It also may not. Weather conditions will certainly be a deciding factor.

One fact must be kept in mind in considering the problem. Altho a problem, the corn rootworm can be controlled if you are aware of its presence in time. Many farmers were jolted into an awareness this past summer by suffering a severe loss. If you are growing corn in the northern half of Kansas (extreme eastern counties excepted), better check corn carefully next year.



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In 11 months of lay, per 100 pullets housed—

Hy-Lines (100 Series) averaged... 1501 doz. eggs  
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## Getting Most Out of Your Hay

(Continued from Page 1)

"A 5-horse motor would do the job," says Mr. French, "but it would take longer to dry the hay and I feel speed is very essential in barn drying."

Generally, Mr. French mows in the morning and hauls his chopped hay to the barn in the afternoon, allowing 3 to 4 hours of wilt under normal conditions. "I try to have my hay at 40 to 45 per cent moisture when I put it in the barn," Mr. French says. His barn will hold 45 tons of dried hay.

With his system, Mr. French never has to handle his hay by hand. Cuts and windrows in the field and uses a pickup hay chopper. Hay is blown into trailers and again blown into the barn. He sets his cutter for maximum length of cut. "Hay cut 4 to 6 inches in length, when blown into barn, does not pack as much as shorter cut hay and the cattle like it, too," says Mr. French.

He has about \$1,500 worth of materials invested in his hay barn and blower. He bought a used motor and did all the labor himself.

In 1952 the cost of drying was about 60 cents a ton under very favorable conditions. "I think this cost might run up to \$1.50 a ton in wet weather," says Mr. French, "but value of hay is in-

French checks hay for hot spots. "Since your hay is drying from the inside out your hot spots are always near the top and can be found," Mr. French explains. He also points out when barn is being filled the hay should never be walked on as those spots where you step will pack and mildew.

Right now Mr. French is looking forward to what he considers would be the perfect hay setup for his farm. "I would like to have another barn like this one only 48 feet long to hold 60 tons of hay," he says.

"I could fill the small barn with my first cutting and let cows run to it during summer. In summer I could fill the big barn, then use the last cutting to refill the small barn. When fall came



**HOMEMADE GRAVITY FLUES** made of 2-by-4's covered with chicken wire carry moisture from hay in the Frederick Warnken barn, Reno county. No blower is used.



**MOTOR AND FAN** on Walter Peirce hay barn, Reno county, are set high so cattle feeding underneath will not damage them. Entrance to wind tunnel is thru door at left bottom of picture.

I could go into the winter with a 100-ton hay supply. The motor and blowers could be moved back and forth between the 2 barns as needed to cut down expense of a second motor and blowers."

Where Mr. French built a new barn especially for his hay, Walter Peirce has remodeled an old horse barn to serve the same purpose. This barn is 28 by 32 by 15 feet to the eaves but hay can be stored to 20 feet depth.

Because his hay storage area is narrow and deep Mr. Peirce had to design his air tunnel to fit. It is 2 feet wide and 8 feet high and is lined inside with tar roofing paper. Most tunnels have slots only along the bottom to allow air to go out under the slatted floor. Mr. Peirce has an opening at both top and bottom of the wind tunnel. "When hay is shallow I use only the bottom slot," he says. "When hay is medium depth I keep both bottom and top slots open. The top slot helps considerably in drying out the upper layers of hay."

The fan used on this job is a 36-inch propeller having 6 blades and run by a 5-horse electric motor. It runs at 1,750 revolutions a minute and will move

(Continued on Page 33)

## HINTS ABOUT A COMPLEX

By Charles H. Lerrigo, M. D.

An old-fashioned schoolteacher who has been accused of having a "complex" has written to ask me what she can do about it. Evidently she does not realize that the charge is rather complimentary. One must have mental possibilities to stir neighbors up to accuse you of "a complex." But no one will burn you at the stake; probably not even duck you in the village pond, as was done formerly. Inventors, reformers, men who take the public platform as educators, ministers, or workers for reform represent the type most likely to present a complex.

For those interested, we have a special letter "Hints About a Complex" that should prove helpful. It 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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12,000 to 20,000 cubic feet of air a minute thru the hay, depending on the static pressure.

Hay in this barn is self-fed around 3 sides. Drop doors have been built in at the top along the sides so the operator can get up and push down hay from the outside. The feeding areas have roofs and concrete floors.

This year is the first season for the Peirce barn. The first cutting filled the barn to a depth of 12 to 14 feet and weather was ideal for drying. The second cutting ran depth of hay to about 17 feet and weather was damp at time hay was put in. "I figured it cost me less than 50 cents a ton to dry the first cutting and about 75 cents a ton for the second cutting," Mr. Peirce says.

### Chop Before Leaves Dry

Hay in the field is wilted a half day in normal weather and never more than one day in bad weather. The pickup cutter is set for a 4-inch cut, which means most of the stems will run 6 to 8 inches. Hay is put into the mow at about 50 per cent moisture. "Hay has to be chopped before the leaves get completely dry," Mr. Peirce explains.

Frederick Warnken doesn't have a blower so he uses a different method in handling his chopped hay. In the first place he uses a Meyer hay conditioner at cutting time to crush the stems. "When you crush the stems they dry at the same speed as the leaves," says Mr. Warnken. "This means you can barn the hay sooner and get a more uniform hay. It also is fluffier when blown into the barn and doesn't pack as much. This affords better air circulation in the hay."

Like the other 2 men, Mr. Warnken sets his chopper for the longest cut it will take. When hay is blown into the barn no one is allowed to tramp over it during the process. Hay is put into the mow at about the same moisture content as loose hay.

### Uses Gravity Flues

The big difference in the Warnken method is use of gravity flues in the barn instead of a blower. "I think a blower would be better but this is cheaper and has worked very well for me," he says.

The flues consist of 2-by-4's nailed to make a 2- by 2-foot square frame running from the ground to the roof. This frame is covered with chicken wire. Flues are placed 7 feet apart in 2 rows with rows also being 7 feet apart.

Moisture in hay is carried off thru the flues.

Like in the other 2 barns, hay here is fed on 3 sides with the operator having the simple job of pushing enough over to fill the immediate needs. "One man can do all the feeding in 10 or 15 minutes," says Mr. Warnken.

In telling about his use of a hay conditioner in the field at cutting time, Mr. Warnken has one word of caution. "If you use a hay crusher be sure you are ready to put up hay without delay as it dries so quickly. You need to watch the hay very closely during wilting and be ready to put it in the barn immediately when it is ready."

To carry chopped hay from field to barn, Mr. Warnken uses 3 specially-built trailers. These trailers are built so they can be converted to silage wagons merely by unbolting the top half of the sideboards. All the trailers are self-unloading for either chopped hay or silage.



"Look out, here comes old big feet again!"



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- OIL FILTER ELEMENTS**  
Since inaugurating direct sales to farmers at wholesale prices, orders continue to come in for thousands of these top quality elements. Have you ordered?  
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**PERFECTION SALES COMPANY**  
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- Gigantic Surplus Sale — Tremendous savings. Government and excess inventory power plants, hydraulics, compressors, pumps, weed sprayers, chain saws, binoculars, tools, hundreds items. Illustrated catalog free. Surplus Center, 877 O St., Lincoln, Nebr.
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West Chicago Pays More: Get highest cash prices for your goose and duck feathers. Send sample for prices of used feathers. Free shipping tags. Prompt payment. Company highly rated. West Chicago Feather Company, Dept. C. G., 172 N. Aberdeen St., Chicago 7, Ill.
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For Sale: Well located 230-acre stock and grain farm in Brown County. Ideal grade A setup. Near good school and churches (Catholic and Protestant) \$135.00 per acre. Possession soon. Mrs. Grace L. Leenerts, General Delivery, Hiawatha, Kan.
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- FERTILIZER**  
**FERVITE FERTILIZERS**  
HIGH ANALYSIS  
\$3.42 returned per \$1.00 invested in Fervite. Records from 109 fields.

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Beautiful Golden Collie Puppies. Eligible A.K.C. Purebred English Shepherds. Barnes, Collyer, Kan.
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Raise Mink: Free booklet, pen plans, inside "secrets," feed, care, Mink are money makers. Investigate today. Lawrence Moigard, Brigham City 55, Utah.
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**AUCTION SCHOOL** Learn Auctioneering. America's Leading Auctioneers Teach You. Students sell actual Sales. Largest school in world, 20 years in operation. Don't be misled. Terpson. Free catalog. Write REISCH AUCTION SCHOOL, Mason City, Iowa.  
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Shine Shoes Without "Polish." New invention. Lightning seller. Shoes gleam like mirror. Samples sent on trial. Kristine 179, Akron, O.  
Priced to Sell by Owner—3-pump Standard Engine station; excellent business; modern living quarters; located on Highway 71 on 2 acres of land; bus station, 13 buses daily. Write George Olson, Route 2, Highway 71, Westfork, Ark.
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Parts for All Stoves, ranges, heaters, furnaces. Fit guaranteed. Write for prices. Give make and part number. Omaha Stove Works, Dept. K, 1204 Douglas St., Omaha, Nebr.
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Photo Christmas Cards, very personally yours. 16 cards and envelopes from your negative for \$1.00, 100 for \$8.00. Send 35c extra if you enclose a photo. 1 deckle print on 8-exposure roll 25c, 2 prints each 38c.
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Wisconsin Film, West Salem, Wis., include a roll of film, same size you send, with better offers. 8 Beautiful 4x6 glossy enlargements from your 8 exposure roll 40c. 12 snappy 4x4 enlargements from your 12 exposure roll 60c. You must enclose advertisement.
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- TINY'S PHOTO SERVICE**  
Topeka, Kan.  
Eight-Exposure Roll printed one of each 25c; two each 35c; one each Jumbo 35c. Star Photo, Denver, Colo.
- Two Happy People, you and we—when you send us your films. You will be pleased with the beautiful results—and we will be happy to please you. Jumbo oversize finishing. Quality work—low prices, same as contact. 8-exposure roll super fine finish only 40c. 12-exposure, 55c. 16-exposure, 70c. 36-exposure, \$1.50. Oversize prints, 8c each. Send us your order. Free Mailers. Mailbag Film Service, Box 5440A, Chicago 50, Ill.
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Arthritis and Rheumatism sufferers: Read "Crude Black Molasses" by Cyril Scott. One dollar postpaid. Harmony Book Shop, New Castle, Penn.  
Free Book — Piles, Fistula, Colon-Stomach, associated conditions. Latest methods. Thornton & Minor Hospital, Suite C1006, Kansas City 9, Mo.
- PATENTS AND INVENTIONS**  
A. H. Sturges, 317 Sunderland Bldg., Omaha, Neb., Registered Patent Attorney, U. S. Patent Office. Produce information, evidence of invention form and patent book sent on request.
- OF INTEREST TO WOMEN**  
Typists, hand writers. Nationally known mailing company provides details of spare or full time earnings, addressing envelopes, compiling lists. Details free. Allied, Box 1149E, Knoxville, Tenn.
- Thrilling, Profitable Home Business. Make fast-seller, chenille monkey trees, dolls, flowers. Terrific holiday demand. Information free. Velvet Bohemia 2. N. Y.
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- OF INTEREST TO ALL**  
The Biggest Bargain of the Year! Now you can subscribe to Country Gentleman, the nation's leading general farm magazine, for 17 full months for only \$1—little more than 5c a copy! Authoritative articles on livestock, poultry, crops, dairies, plus hundreds of profit-making, cost-saving ideas. Four separate geographic editions, covering the latest news of your local markets, professional conditions. Country living section offers featured on home remodeling and repair, style news, gardening, foods. Send your dollar today to Curtis Circulation Co., Dept. 943, Independence Square, Philadelphia 5, Pa.
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**POPCORN**  
We are in the market for popcorn, both yellow and white. Send samples if possible and advise the kind and approximately how much you have to offer and whether it will be on the ear or shelled.  
**F. A. MANGELSDORF SEED CO.**  
Box 468 Atchison, Kansas

**Fill Your Pastures with the GOOD KIND in the  
HIGHLAND VIEW FARMS DISPERSION  
COCHEL-STALEY SHORTHORN SALE at Highland View Farms  
GASHLAND, MISSOURI, WEDNESDAY, OCTOBER 21**

**During American Royal Livestock Show Week**

The sale will be held at Highland View Farms located a half mile east of Gashland, Mo., starting promptly at 12:00 noon. Gashland is only 10 miles north of Kansas City on U. S. Highway No. 69.

**Selling 111 LOTS—26 Bulls, 30 Cows with calves at foot, 37 Bred Cows and Heifers, 18 Open Heifers**



D. W. Bishop, Highland View Farms, Gashland, Mo.—Doctor's orders have forced Mr. Bishop to sell his entire herd of 72 lots. Here is one of the most richly bred and highest quality group of Shorthorns ever put together by one man in America. Neither time nor money has been spared in the last 12 years in building the present Highland View Farm herd to its outstanding peak of production. He sells 10 bulls, including the present two herd sires, Erimus Dandy and Calrossie Imperial. 22 cows with calves at foot, 25 bred cows and heifers and 15 open heifers.

W. A. Cochel, Parkville, Mo.—Having contributed to the joint Highland View Farms-Roanridge Sale the past several years, he sells 9 bulls and 11 females. Included will be the 4-year-old sire, Sunset Bounce 26th with 8 of his sons as special attractions. Many of the females have calves at foot and have been mated to the \$6,000 Calrossie Captain John by the noted Calrossie Welcome.

Oren Lee Staley, Bea, Mo., sells 7 bulls and 12 females, featuring the natural fleshing quality and ruggedness of his famous Mercury-Goldfinder cross. Outstanding herd bull prospects by Sni-A-Bar Ransom Mercury and a choice group of females mated to his new Canadian bred sire, Oakendene Count by Bapton Chancery.

For catalog and other information, address  
**MERVIN F. AEGERTER, Sale Manager, Seward, Nebraska**

Auctioneers: C. D. Swaffar and Jewett M. Fulkerson Mark Dempsey with Kansas Farmer Sale Headquarters: Hotel Phillips, Kansas City, Mo.

**You Will Find GOOD Cattle Aplenty!  
In the  
NEBRASKA-KANSAS SHORTHORN AND POLLED  
SHORTHORN BREEDERS' AUCTION**

at the Superior Sales Company Pavilion  
**Superior, Nebr., Wednesday, October 28, 1953**

Sale at 1:00 P. M. — Auctioneer: J. E. Halsey, Des Moines, Ia.  
**20 4-H Club Calves Will Sell at 12:30  
SELLING 50 HEAD**

**25 Polled Shorthorn Bulls**                      **15 Shorthorn Bulls**  
**7 Polled Shorthorn Females**                  **3 Shorthorn Females**

Here is one of the best opportunities of the fall sale season to select proven sires or young herd bulls of real herd-heading quality. Bulls with good heads, ample scale, bone and substance and with worlds of natural fleshing quality.

Top females too—a small select group, but every one a good one.

For the past several years these annual spring Nebraska-Kansas Shorthorn and Polled Shorthorn Breeders' sales have been the largest and most popular in the Middle West with cattle in these sales going from Florida to California. Breeder growth and demand for good Shorthorns and Polled Shorthorns in this area has made this first annual fall sale possible. There will be no morning show, but do come early to inspect the cattle and be on hand promptly at 1:00 to see them sell.

For a grand opportunity in herd bull selection for commercial, farmer-breeder or strong purebred herds, plan now to attend this sale of top attractions from the top herds in Nebraska and Kansas.

For the catalog and other details, write to—  
**MERVIN F. AEGERTER, Sale Manager, Seward, Nebr.**

**Announcing the  
BELDEN & SCHEUTZ ANNUAL  
Hereford Production Sale  
October 24, 1953  
Horton, Kansas  
Civic Center Building**

**Selling  
60 Head**

Carefully selected from our herds. We will be offering the same quality that we have sold in our previous sales.

Watch this paper for further information.  
**William Belden, Horton, Kan.**  
**AL J. SCHEUTZ, Mercier, Kan.**

Gene Watson, Auctioneer  
Mike Wilson for Kansas Farmer

**Registered Polled  
and Horned Hereford  
CONSIGNMENT SALE  
October 12, 1953  
1:00 P. M. SALE BARN  
Waverly, Kansas**

**25 Bred and Open Heifers  
15 Bulls, mostly of service-  
able age.**

This offering is made up of consignments from the leading breeders in this territory.

For catalog and information write,  
**NEIL R. GEORGE, Auctioneer  
WAVERLY, KANSAS**

**FOR SALE — OUR 1953 REGISTERED  
POLLED HEREFORD CALVES**  
at the  
**E. R. ROEL RANCH, Moore, Mont., Oct. 31**  
Write Box 886, Lewistown, Mont.

**BEEF SHORTHORN BULLS**  
For Sale—12 to 18 months. One 3 years old. Red and roan. Bred by Gregg Farms Aurore, Ia. by Edellva Valiant Mercury. Our cows are heavy milkers.  
**S. A. HILL, Smith Center, Kan.**

**OKLAHOMA POLLED  
SHORTHORN ASSOCIATION  
SHOW & SALE  
Woodward, Oklahoma  
At the Crystal Beach Fairgrounds, on  
November 5, 1953  
50 HEAD**

Special feature 3 heifer calves as one sale lot. Only consignment sale of this kind offered. Show at 9:00 A. M. Sale at 1:00 P. M.

Send for sale catalog to  
**BILL TAGGART, Sale Manager  
BOX 128, WOODWARD, OKLAHOMA  
C. D. (Pete) Swaffar, Auctioneer**

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

**BANBURY & SONS**  
Plevna, Kansas  
9 miles southwest of Hutchinson, then west 14 miles on blacktop.

**HAMPSHIRE SHEEP, DUROC HOGS,  
AND MILKING SHORTHORNS**  
Purebred stock. Both sexes. All ages.  
**WILLARD WALDO, De Witt, Nebraska**

**SHEEP**  
**REGISTERED  
Hampshire Sheep Sale  
Thursday, October 22**

12:30 P. M.  
Dispensing our Foundation Flock  
**90 HEAD EWES—10 RAMS**

This sale offers an opportunity for you to purchase foundation individuals backed by years of careful breeding.

Harold Tonn and Karl Bowes, Auctioneers  
Write for information  
32 miles south of Kansas City  
**L. G. "Tommy" Wilson  
LOUISBURG, KANSAS**

**Kansas Shorthorn Breeders'  
Society Sale & Kansas Shorthorn  
Breeders' Association Sale**  
at the State Fairgrounds  
**HUTCHINSON, KANSAS  
Polled Sale November 13 &  
Horned Sale November 14**

Show Each Day at 8:30 A. M., with Walter H. Smith,  
Kansas State College, as Judge  
**SALE EACH DAY AT 12:30 P. M.**



**54 POLLED SHORTHORNS**  
**27 Bulls and 27 Females**

**POLLED CONSIGNORS**

J. C. BANBURY, Plevna  
WAYNE K. BELDT, Raymond  
ELVIN E. BRITT & SONS, Abilene  
H. E. ESHELMAN, Sedgwick  
EARL J. FIESELE, Norwich  
WAYNE HAMILTON & SON, Mankato  
HUDSON BROS., Hubbell, Nebr  
LOVE & LOVE, Partridge  
C. G. LOYD, Valley Center  
CLYDE W. MILLER, Mahaska

McILRATH BROS., Kingman  
I. G. NEIER, Mullinville  
JOHN F. REECE, Lansing  
W. A. ROSENBERGER, Greensburg  
HERBERT REYNOLDS, Cuba  
D. L. SNIDER & SONS, Raymond  
STUART SUTTON, Hubbell, Nebr.  
WALLACE BROS., Barnard  
ADAM WAGNER, Bison  
S. S. ZEIGLER, Falco

**78 HORNED SHORTHORNS**  
**35 Bulls and 43 Females**

**HORNED CONSIGNORS**

MILES AUSTIN & SONS, Rosalia  
R. L. BACH & SON, Larned  
RALPH L. BAYLES, Garrison  
ARTHUR BLOOMER, Lancaster  
T. R. CANTWELL & SON, Sterling  
RALPH D. & JAMES M. COLLIER, Alta Vista  
C. M. CUMMINGS, Kingsdown  
DORSEY ELLIOTT, Satanta  
GLEN FLICKINGER, Abbyville  
EMERSON S. GOOD, Barnard  
DANNY HAHN, Dodge City  
WALTER A. HUNT, Arkansas City

GLENN E. LACY & SON, Miltonvale  
J. L. MURPHY, Ulysses  
McILRATH BROS., Kingman  
ANDREW O. McINTYRE, Duquoin  
D. A. REUSSER, Wellington  
FLOYD M. REUSSER, Mulvane  
J. M. REUSSER, Mulvane  
LAVERNE M. REUSSER, Mulvane  
CAROL LOUISE SPITZER, Grigston  
I. J. SPITZER, Grigston  
WILLIAM E. THORNE, Lancaster  
WALLACE BROS., Barnard  
ARTHUR R. WAITS, Cassoday  
W. A. YOUNG & SONS, Clearwater

**A Banquet Will Be Held at the Leon Hotel on the Evening of  
November 13th, at 7:00 P. M.**

For banquet reservations, sale information and catalogs write  
**LOT TAYLOR, Sale Manager  
1436 Legore, Manhattan, Kansas**  
Auctioneer: C. D. Swaffar                      Mike Wilson for Kansas Farmer

**ELEVENTH ANNUAL MISSOURI  
POLLED SHORTHORN BREEDERS' Show and Sale  
SHOW 8 A. M. — Judge, Wilbur Nickel, Lewistown, Ky. — Sale 12:30 P. M.  
Monday, October 26 — Sedalia, Mo.**

(Missouri State Fair Grounds)  
**SELLING 39 BULLS AND 47 FEMALES**

25 Well Known Missouri Polled Shorthorn herds will be represented in this consignment sale. 47 Bulls, service age and younger. 23 Females are bred and 24 are open. An excellent opportunity to buy Polled Shorthorns at reasonable prices. Drought conditions in Missouri are in favor of the buyer and this sale will be a buyers opportunity.

Annual Banquet at Hotel Bothwell, Sedalia, 6:30 P. M.  
Write for catalog to  
**ROLLO E. SINGLETON, Secretary, State Dept. of Agriculture, Jefferson City, Mo.  
C. D. Swaffar, Auctioneer**

**Polled Shorthorn Dispersal Sale, October 27  
of the E. G. HARTNER herd  
CLINTON, MISSOURI**

of 28 lots and consignments of 17 lots from neighboring herds in that area.  
Sale at the Henry County Fair Grounds, 1 mile northeast of Clinton, Mo.  
**45 LOTS—9 bulls; 18 cows, 6 with calves at side;  
14 bred heifers; 4 open heifers.**

The offering features the get and service of Lynnwood Star, Green Valley Sultan, and Prince of White Haven. Consignors in addition to E. G. Hartner's Dispersal Cattle—Polled Shorthorns are consigned from E. A. Vansant, G. O. Harrison of Clinton, Mo., and John Howerton, Chilhowee, Mo.

NOTE—Clinton, Mo., is 75 miles southeast of Kansas City, and 45 miles southwest of Sedalia, Mo.  
Attend the Missouri Polled Shorthorn Sale, Sedalia, Mo., October 26, and our sale on October 27.

For sale catalogs write E. G. HARTNER, Route 5, Clinton, Mo.  
Bert Powell, Auctioneer

**Your Best Buy Today Is U. S. Savings Bonds**

# THE CIRCLE R RANCH SALE OF POLLED HEREFORDS

Selling at Circle R Ranch just east of

## ADAMS, KANSAS

### Monday, October 26, 1953

1:00 P. M.



### SELLING 66 HEAD

#### 56 Lots — 14 Bulls — 42 Females — 10 Calves

14 Bulls mostly of serviceable ages, sired by WHR Leskan 5th, CRR Leskan 6th, and CRR Pawnee Domino 63. 13 Cows some with calves by side, sired by Real Moses 2d, WHR Leskan 5th and bred to CRR Leskan 27th, and WHR Leskan 5th. 14 Bred Heifers and Heifers with calves, sired by WHR Leskan 5th and CRR Leskan 6th, calves sired by Modest C Lamplighter 15th, and heifers rebred to Modest C. Lamplighter 15th. 15 Open Heifers, sired by WHR Leskan 5th, CRR Pawnee Domino 63d, and CRR Leskan 6th. We purchased Modest C Lamplighter 15th at the 1952 C. K. Mousel Sale, where he was top-selling bull. His first calves on the ground now are very promising. Many of the bred heifers in the sale are carrying his service. Our former sales have been some of the top sales in the state and this offering is superior to our former offerings.

**WALBERT J. RAVENSTEIN, Owner, Adams, Kan.**  
**VIC ROTH, Sale Manager, Box 702, Hays**

Auctioneer: Freddie Chandler  
Mike Wilson for Kansas Farmer

### PENNEY AND JAMES COW AND CALF SALE

at the Homeplace, near

#### HAMILTON, MO.

#### OCTOBER 27, 1953

We will be featuring the get and service of our herd bull battery, including Eileenmere 999th, Homeplace Eileenmere 687th, Homeplace Eileenmere 52nd, Homeplace Eileenmere 367th, Homeplace Eileenmere 150th, Homeplace Eileenmere 375th, Supreme Champion at the 1953 Futurity, Homeplace Eileenmere 368rd, Homeplace Eileenmere 262nd and Homeplace Eileenmere 263rd.

**75 COWS WITH MANY CALVES AT FOOT,**  
Many Springers, numerous "three in one" combinations.



EILEENMERE 999-890948

Senior herd sire at the Homeplace. Many cows have calves by him, others carry his service. His blood is heavily represented throughout the sale.

#### DAMS OF FAMOUS BULLS AND FEMALES ARE SELLING, such as the dam of:

- Our own Homeplace Eileenmere 52nd and Homeplace Eileenmere 280th, now owned by Hays Ranch in Texas.
- The \$33,000 Homeplace Eileenmere 164th, now owned by Hays Ranch in Texas.
- Blackbriars Farms' herd sire in New York — The B. C. Cotton herd bull in Kentucky.
- Homeplace Eileenmere 49th, used heavily in our herd now owned by Dr. L. G. Cayton in Tennessee.
- Homeplace Eileenmere 68th, owned by A Bar A Ranch in Wyoming.
- The Mississippi State College herd bull.
- Homeplace Eileenmere 43rd, the Harken Farms' great sire in Iowa.
- The Guy Leader bull in Pennsylvania.
- Homeplace Eileenmere 185th, now owned by 77 Ranch in Texas.
- Homeplace Eileenmere 75th, owned by Harken Farms in Iowa.
- Homeplace Eileenmere 268th, a \$55,000 bull, owned by Taylor Brothers in Missouri.
- The Gordon Sipple bull in Colorado.
- The Von Robbins bull in California.
- The Gannon bull in Iowa.
- The A. W. Lambert herd bull in Colorado.
- The Dale Redding herd bull in Nebraska.
- Homeplace Eileenmere 18th, the Windy Hill bull in Illinois.
- The L. A. English herd bull in Colorado.
- The Dr. Mulkey herd sire in Georgia.
- The Wesdale Farms' herd sire in Washington.
- The Jesse Thurmond herd bull in Nebraska.
- The O & R Farm's herd bull in Iowa.

A first prize female at the International and the dams of bulls working in other good herds and dams of numerous other females from the show herd over past years. MOST OF THE MORE POPULAR FAMILIES ARE REPRESENTED IN THIS HERD.

### PENNEY & JAMES, Hamilton, Mo.

J. C. PENNEY and ORIN JAMES, Owners

ORIN JAMES, Manager  
Dr. I. D. Richardson, Resident Veterinarian  
Richard Svoboda and Dick Neal, Assistant Herdsmen  
EUGENE SCHUBERT, Chief Herdsman  
H. C. Henry, Assistant Farm Manager  
For catalog address J. B. McCORKLE, Sales Manager, Smithville, Mo.  
Auctioneer—Roy Johnston and Ray Sims

Your Best Buy Today Is U. S. Savings Bonds

# KANSAS ANGUS ASSN.

## Annual Stocker and Feeder Calf Show and Sale

BEVERLY-WILSON LIVESTOCK AUCTION CO.

### Salina, Kansas, Wed., October 7th



**4,000 to 5,000 Head of Angus Cattle**  
2,500 Heifer and Steer Calves, weight from 350 to 600 pounds. Heifer calves suitable to start a good Angus herd.

1,000 Yearling Heifers and Steers—good ones fresh off the pastures of Kansas.

500 two-year-old steers carrying good flesh—ready to go to the feed lots.

**\$1,000.00 and Ribbons Donated by**  
**The Kansas Angus Association**

**Trophies for Champion Pens Donated by**  
**Beverly-Wilson Livestock Auction Co.**

**Judging, 9:00 A. M.—Sale, 1:00 o'Clock**

Judges: Waylan Hopley, Atlantic, Ia.; Frank Retz, Omaha, Nebr.;  
Clement Chase of Pipestone, Minn., to judge 4-H Club calves.

## THURSDAY—OCTOBER 8

### 500 Angus Cows and Two-Year-Old Heifers

**SALE STARTS AT 10 O'CLOCK**

Trucks available to go anywhere and service available to four different railroads.

## JOINT SALE from TOP ANGUS TRIBES

At BLACKPOST RANCH • OLATHE, KAN. • OCTOBER 21

### D BAR S RANCH

### BLACKPOST RANCH

#### 68 Females and 2 Bulls Sell

#### Get and Services of Great Bulls Sell

A commendable offering of top families comes your way Wednesday, October 21, as these two progressive ranches combine for a joint sale at Blackpost Ranch, Olathe, Kan. Sixty-eight females from preferred families include an Essay—Only 10 in U. S., a Grammer by Prince Eric of Sunbeam, a Jilt by Prince 500 of Bates, three El-Jon Eriannas, Blackcap Bessies, Edwina, Black Jestress, Maid of Summers, Ballindaloch Georginas, Witch of Endor, Heroines, Lady Ida, Elluna, Barbaras and others. Also being offered are two bulls, one of them, coming from the show herd, being a son of Eileenmere 999th. The other bull is by Bandolier 44th of Wilton and shows the very best in Wilton Farms breeding. He also is from the show herd.



**ELBAN BARDOLIER 3rd**  
—1951 International Grand Champion bull. His get have sold at unusually pleasing figures, and they are winning in the major show rings of America. This champion will be on display at sale time, and you will have the opportunity to buy 20 select females carrying his most valuable service or having breeding privilege.

**BANDOLIER 144th of WILTON A. N.**—Is a many-times champion bull whose get have been received by major breeders. His service was received with great favor last year and is offered again on top females in this sale.

**AUCTIONEERS:**  
Roy Johnston & Ray Sims  
For Sale Catalog write  
J. B. McCorkle, Sale Mgr.  
Smithville, Mo.

**BLACKPOST RANCH**

Summer Field, Owner  
Bob Stone, Mgr., George Crenshaw, Herdsman

**D BAR S RANCH**

Bruce Dodson and Ernie Sherard, Owners  
Roxey Warren, Manager

## SHORTHORN FEEDER CALF SALE

### October 14, 1953, Salina, Kansas

BEVERLY-WILSON SALE BARN

#### OVER 700 HEAD—Fresh from the Country

Show at 9:00 A. M. — Sale at 12:00 P. M.

There will be some excellent 4-H lots selected out to sell. In the auction there will be heifer calves, steer calves, yearling steers and yearling heifers. They will be sold in groups of 5—10—20. This is a group of very high class Shorthorn yearlings and steers. Anyone will be able to fill their needs at this sale.

**KANSAS SHORTHORN BREEDERS' ASSN.**

**LOT TAYLOR, Sale Manager, 1436 Legore, Manhattan, Kan.**

## Southwest Shorthorns & Polled Shorthorns

### Monday, October 19, 1953, Cambridge, Nebraska

Consignments from Nebraska and Kansas best herds.

**BULLS—14 Polled Bulls. 11 Horned Bulls**

**FEMALES—24 Polled Females. 21 Horned Females.**

The bulls are mostly of breeding age including a number of choice herd sires of each branch. The outstanding feature of the female offering is the complete dispersion of the W. W. Lee herd of Elsie, Nebr. Consisting of 21 excellently bred Polled females with 15 calves at foot. Mr. Lee is forced to sell. These cows have been short of grass this summer, but they are in good breeding condition. Many of the calves at foot are show prospects. A number of 4-H calves will be sold including 5 purebred heifers.

Sale will commence at 12:30 P. M. (CST)

Get the catalog from **THOS. ANDREWS, Manager, Cambridge, Nebraska**  
It tells the story.  
Ernie Sherlock, Auctioneer, St. Francis, Kansas

# REGISTERED HEREFORD SALE

## October 20, 1953

1:00 P. M.

# IOLA, KANSAS

Riverside Park, Fairgrounds



There will be

### 50 HEAD OF REGISTERED BULLS AND FEMALES

Consisting of yearling bulls, bull calves, cows, bred heifers, yearlings and heifer calves. This selection has been made from many of the purebred herds in Southeast Kansas. Anyone desiring good cattle that are well-bred should not fail to attend this sale.

For Information and Particulars Contact

### KANSAS HEREFORD BREEDERS ASSOCIATION

**TOM SULLIVANT, Secretary-Manager**

Fairgrounds, Hutchinson, Kansas

Ralph Smith, Auctioneer

Mike Wilson for Kansas Farmer

## KANSAS' LARGEST FALL SALE SUTOR HEREFORD FARMS ZURICH, KANSAS

235 HEAD

### Wed., October 14, 1953

Sale Starts at 10:30 in the Morning

Will be held at the ranch 3 miles west, 3 south and 1 west of Zurich. Zurich is located on Highway 18 about 30 miles northwest of Hays.



### BULLS

8 yearlings, the very top of 1952 crop. Some real herd bulls here. 17 senior bull calves, very nice and just past a year old at sale time. 20 bull calves, right off their dams. Some real prospects here. 4-H Club members, here is a real chance to buy a good heifer calf. The cattle will sell individually and in groups.

### FEMALES—COWS—HEIFERS

64 cows, all regular producers. 31 bred heifers mated to MW Mission Larry 5th and CA Larry 3. 30 yearling heifers, all open. 10 senior heifers, all daughters of Mission Larry 5th. 35 heifer calves, off their dams.

### POLLED HEREFORDS

20 polled females of all ages, cows, bred heifers and calves. Here is an opportunity to buy some Polls if that is what you like.

Write for catalog to

**SUTOR HEREFORD FARMS, Zurich, Kansas**

Auctioneers: Howard Schnell and Hank Welscamp  
Mike Wilson for Kansas Farmer

## EBEL & ZIMMERMAN PRODUCTION SALE Alma, Kansas, October 31, 1953

SALE AT 4-H CATTLE BARN — RAIN OR SHINE  
OFFERING 50 LOTS—60 HEAD



### EBEL CONSIGNMENT CONSISTS OF 11 BULLS

1 Senior Yearling Bull M. B. Real Onward 6 by A. L. F. Real Onward 44th. We have been using this bull in our herd and most of our sale females are bred to him. 4 Summer Yearling Bulls—sired by G. Larry Domino 40th (W. L. Garland Jr., of Grand Saline, Tex., herd bull). 3 Senior Bull Calves sired by E. P. H. Larry D. Mischief, our former herd bull, now serving in the W. L. Garland, Grand Saline, Tex., herd. Two of these are herd bull prospects. 1 Senior Bull Calf sired by Prince Lad 9, who was grand champion for Kenneth Kuhlmann of North Platte, Nebr., at the November 9, 1951 Midwest Show and Sale, Deshler, Nebr. 14 FEMALES all Polled except 2 cows and 2 heifers. 3 Cows with Bull Calves at side and rebred to M. B. Real Onward 6th. Two of these bull calves are herd bull prospects, one by E. P. H. Larry D. Mischief and the other one by Real Plato Domino Jr. 4. 2 Worthmore Cows, bred to E. P. H. Larry D. Mischief, one will calve by sale date. 1 Summer Yearling Heifer sired by E. P. H. Larry D. Mischief, bred to Beau Rollo Jr. by A. L. F. Beau Rollo 79th, our new herd sire. 3 Open Heifers by E. P. H. Larry D. Mischief. 3 Open Heifers by G. Larry Domino 40th. 2 Open Horned Heifers by Champ. Larry C. 3. These females are all vaccinated for Bang's.

### THE ZIMMERMAN CONSIGNMENTS CONSIST OF 6 POLLED BULLS

3 Junior Yearling Bulls, 1 Summer Yearling, 1 Senior Bull Calf, 1 Junior Bull Calf. These bulls are sired by P. V. F. Advance Worth 8th, son of the twice National Champion P. V. F. Advance Worth 2d and Real W. Dundy—champion at the Wabunsee County Spring Show 1952 and now chief herd sire. Part of these bulls are herd bull prospects. 20 Females—all polled except 4 horned cows. 1 Cow and calf and rebred. 6 Cows and calves, open. 4 Bred Cows. 4 Open Heifers. 4 Bred Heifers. These heifers are sired by P. V. F. Advance Worth 8th and 3 open. Z. Real W. Dundy. The rebred females are bred to Z. Real Dundy.

See the Ebel & Zimmerman Show Herds at the American Royal

For catalogs write owners:

**LEO EBEL & SON, Wamego, Kansas, and  
W. R. ZIMMERMAN & SON, Alta Vista, Kansas**  
Gene Watson, Auctioneer Mike Wilson for Kansas Farmer

## ANNUAL POLLED HEREFORD PRODUCTION SALE—OCTOBER 17



Sale includes top cattle that we will sell during the year.

**100 HEIFERS  
Bred and Open  
25 BULLS**

**SALE STARTS  
AT 12 NOON**

Lunch on grounds

Write for catalogs

**O'BRYAN RANCH, Hiattville, Kansas**





**LETZ "ONE-MAN" PTO GRINDERS**  
with *New* MILL FEEDER

Save half grinding time and work. New feeder saves lifting tons of feed. Handle feed only once, from crib to grinder to truck. Get away from feed fast, around the mill and in the feed. For MORE PROFITABLE feed preparation use a Letz—the slow-speed, cutting-type grinder that granulates or cracks for ruminants or pulverizes for pigs or poultry. With heavy-duty PTO drive, new Letz mills in three sizes, grind feed FAST and better.

Excels in Earning Power and Value. New swivel head puts feed where wanted. Letz mills, continuously developed since 1884, are used by leading feeders and farm men everywhere. Write for folder. LETZ MFG. CO. 41 N. ROAD CROWN POINT, IND.

**New FIELD SPEEDS for FARMALLS**

**M & W 9-Speed Transmission**  
Cuts Field Work Time...Saves Gas

M&W 9-Speed Transmission gives your Farmall 4 more intermediate field speeds (6, 7½, 9 and 11 mph) ... a complete range of "job-suited" speeds. Fits Farmall M, H, MD, W-4, W-6, Super H and Super M. For complete information see your tractor dealer today or write Dept. G18.

**M & W GEAR CO.**  
ANCHOR, ILLINOIS

**Heavy Duty Farm Wagon**  
CARRIES 6 TONS

5th WHEEL STEERING

Carries heavier loads. Fewer trips. Extra strong steel frame. Timken bearings. Heavy duty wheels. No sideway or shimmy. The big wagon buy for economy and long service.

**WINP-POWER**  
NEWTON, IOWA

**WIRE WINDER**  
Roll and unroll barbed wire with tractor power and speed. Heavy duty slip clutch. Keep wire tight. Collapsible spool. Very low cost. Write for FREE literature. Dept. 39

**MIDWEST WIRE AND STEEL CO.**  
South St. Paul, Minnesota

**SAVE LIFE, LIMB, TIME**  
Use Nelson SAFETY Reverse Gear (Available for IHC 24 Picker)  
EASY TO INSTALL—LOW COST  
Write  
**KEITH NELSON, Blair, Nebr.**

**LIFTS MORE! LIFTS HIGHER!**  
DUNCAN LOADMASTER lifts up to 13 ft. And... scoop lowers below level of front wheels!

FITS ALL ROW CROP AND CONVERTED FRONT END TRACTORS!

These Attachments are available for Duncan Loadmaster:  
● Dozer Blade  
● Push-off Hay Stacker  
● Hay Loader  
● Snow Bucket  
● "V" Type Snow Plow

Write for Illustrated Folder

**IRRIGATION PUMP COMPANY**  
COLUMBUS, NEBRASKA

**ROWE'S ANNUAL POLAND CHINA BOAR & GILT SALE**  
**October 16, 1953**  
1:00 P. M.  
**OSAGE CITY**  
SALE BARN

**40 HEAD**  
**20 SPRING BOARS AND 20 SPRING GILTS**  
Mostly sired by Santa Fe. One outcross litter by Golden Rod. The litter is out of the grand champion sow of Kansas.

This offering will include the following winners. They are all selling. 2 Junior Champion Sows. 2 First Prize Litters. Junior Champion Gilt.

All the winners in our show herd are selling. A free breeding privilege will be given to 4-H and FFA members who purchase gilts in this sale.  
For catalog write  
**C. R. ROWE & SON, Scranton, Kansas**  
Mike Wilson for Kansas Farmer

**BAUER'S ANNUAL POLAND CHINA BOAR & GILT SALE**  
**Saturday, October 17, 1953—1 P. M.**  
**Fair Grounds, Fairbury, Nebraska**  
(Just over the line)

**SELLING 30 BOARS—30 GILTS**  
Sired by Jeffersonian Prince—the sire of the 1953 Nebraska grand champion. The Skipper, the reserve grand champion of the 1953 Nebraska State Fair. Select Model, top son of the 1952 Iowa grand champion. Gold Medal new breeding to any of the sale offering.

Tops of 300 head sell of February and March farrow. Well grown—strictly of the meat type—large litters. Our Nebraska State Fair grand champion and three winners sell.  
WRITE FOR CATALOG  
**BAUER BROS., Gladstone, Nebraska**

**Registered Hampshire BOAR & GILT SALE**  
**OCTOBER 22, 1953**  
Night Sale — 8:00 P. M.  
at the Fairgrounds  
**BELLEVILLE, KANSAS**

**30 BOARS**  
**20 GILTS**

A few of the offering are sired by Kansas Flashy. Also some good pigs out of litters bought in dam that will make outcrosses. A major part of the offering is sired by Miracle Major.

For catalog and information write  
**C. E. McCLURE, Republic, Kan.**  
REPUBLIC, KANSAS

**DUROCS**  
Top-notch breeding. Boars now. New breeding for old customers. Call us collect.  
**ARTHUR E. ROEPKE & SONS, Waterville, Kan.**

**HUSTON FARMS ANNUAL DUROC SALE**  
**Thursday, Oct. 15, 1953**  
Sale at 1:00 P. M. at the farm.

**60 HEAD**  
**25 Spring Boars**  
**25 Spring Gilts**  
**10 Weanling Pigs**

Practical meat type Durocs, from large litters, a quality offering with production ability and show ring quality. Sired by Ohio Wavemaster, littermate of 1951. Ohio grand champion boar—Smooth Admiral, 1949 Iowa junior champion—and Grand Fortune, son of boar we sold Potter Farms of Ill.

WRITE FOR CATALOG  
**WILLIS HUSTON**  
AMERICUS, KANSAS  
Bert Powell, Auctioneer

**PUREBRED HAMPSHIRE BRED SOWS AND SPRING BOARS**  
Champion bloodlines. Recleaned Certified  
**PONCA SEED WHEAT**  
Rust and fly resistant.  
**JOHN GAREIS**  
Wamego, Kansas Phone 807

**OFFERING CHOICE DUROCS**  
Big, rugged, heavy boned boars and choice gilts. Best I ever raised. These are really the fast-growing registered Durocs. We kept only our very tops.  
**CHARLES STUCKMAN, Kirwin, Kansas**

**\$38 will deliver this DODSTONE Cattle Shed**

A genuine Dodstone cattle shed is a permanent structure, storm proof and vermin proof. No maintenance costs on Dodstone buildings. Pay \$38 now, balance later.

**LOADING SHED... FEEDING UNIT... OR GENERAL PURPOSE**  
A very economical construction. Steel reinforced masonry. Air space prevents sweating. Light weight units do not absorb moisture. Requires less footing. No cracks in walls.

**THERE IS A DODSTONE PLAN FOR EVERY NEED**

 <b>DODSTONE BARN</b> Dodstone provides a long-life material for top-quality insulated barns.	 <b>POULTRY PARLOR</b> Give laying hens dry even temperature, protection from vermin and rodents, get more eggs.
 <b>DODSTONE MILK PARLOR</b> Meets all inspection requirements, keeps bossy warm in winter, cool in summer.	 <b>DODSTONE HOG HOUSE</b> Strong, light-weight construction gives durable, economical protection for hogs.

Remember, Dodstone is Permanent, Fireproof and Vermin Proof  
Call or Write the Dodson Manufacturing Company for Further Details TODAY

**DODSON MANUFACTURING CO., INC.**  
CONCORDIA, KAN. — WICHITA, KAN.

**R. E. BERGSTEN & SONS**  
Registered  
**HAMPSHIRE HOG SALE**  
at the farm  
**RANDOLPH, KANSAS**  
**October 22, 1953**  
**35 REG. BOARS — 20 REG. GILTS**  
A few registered gilts bred for early spring litters. 10 off-marked open gilts.  
**R. E. BERGSTEN & SONS**  
RANDOLPH, KANSAS

**COMFORT**  
CUSTOM FIT TRACTOR HEATERS

**COST LESS \$39.95**  
...yet actually fit your tractor BETTER

Suggested List Price ONLY \$39.95  
F.O.B. KAN. CITY, MO. Std. Model

Side Door Models Slightly Higher. Crawler Models Priced Individually.

You may pay more—but no other tractor heater can give more warmth and protection. Better custom fitting to your tractor eliminates bagging, sagging, flaps and gaps. You get more heat around the tractor seat.

You'll like COMFORT Features Too!

- Windshield easily removable without tools
- Sidewings are adjustable around driver
- Motor panels fold or remove entirely for heat control.
- Full accessory line for severe weather requirements. Available at low extra cost.

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Canadian Pat. No. 471,556

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**SALINA CONCRETE SILO**  
STAVE

A SALINA SILO lets you feed profitably when cattle prices are down. Saves feed bills. Saves drought crops which otherwise would be lost. Built with large, all-steel doors, SALINA SILOS last for years, eliminate spoilage, pay for themselves. No down payment. Write for free folder.  
**SALINA CONCRETE PRODUCTS, Inc.**  
1104 West Ash, Salina, Ks.



## Nebraska farmer discovers how to farm more land at less cost!

The sun was shining and everybody was smiling! From left to right, Earl Brauckmuller, his father, Ernest, and C. H. "Harm" Miller, the Brauckmullers' Conoco jobber of Greenwood, Nebraska. Three of the tractors that Conoco keeps in such fine shape are shown; too!

Ernest and Earl Brauckmuller, father and son of Waverly, Nebraska, are two of the most enthusiastic users of Conoco products in the whole state. They tell everyone that Conoco keeps their equipment in such good shape that they produce more work cheaper — thus make more profits!

The Brauckmuller farm itself is 160 acres, but son Earl takes care of another 120 acres on his own and the two Brauckmullers work another 360 acres in partnership. All in all they farm 640 acres, mostly in small grain. But the energetic team doesn't stop there. Ernest is presi-

dent of his District School Board. And he's an enthusiastic sportsman; once or twice a year he takes a jaunt to Minnesota or Canada for fishing and hunting. Earl likes to tinker with machinery—so he gets the job of keeping all the power equipment in tip-top condition.

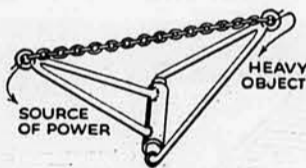
The Brauckmullers own three tractors—a '48 Farmall MD—a '52 Farmall M, and a Minneapolis Moline U. They also have a 2-ton Chevy Truck and both Ernest and Earl own '52 Buick cars. They use Conoco exclusively!

Says Ernest: "I've used other products in the

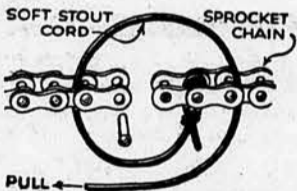
past but, since switching to Conoco over 10 years ago, I've used nothing else and I know Conoco quality fuels, motor oils and lubricants have made it possible to maintain my equipment in better condition and produce more work cheaper. And that adds up to greater profits in my business."

Ernest has something there! Why don't you try Conoco? Give your Conoco man a ring. The proof he has of Conoco's superiority is downright interesting—and convincing!

"To lift heavy objects with tractor, cut pipe as follows," says R. C. Carroll, O'Donnell, Texas. "4 pc. 1½" x 10'; 1 pc. 2" x 6'; 1 pc. 2½" x 4'. Weld pipe and rings as shown. 2" pipe moves inside 2½". Connect rings with chain. To lift object attach to tractor as shown. Fold like hinge for storage."



"A tight chain is assembled easily by attaching soft stout cord or small rope as shown," says D. V. Joseph, Decker, Montana. "A pull on loose end brings links in place."



### CREAM FRIED CHICKEN

by Mrs. L. B. Hulslander  
Dillon, Colorado

1 frying-size chicken, cut into serving pieces	¼ teaspoon pepper
2 cups thick sweet cream	½ cup flour
1 teaspoon salt	1 qt. milk

Place cream in heavy skillet or chicken fryer, heat slowly. Combine flour, salt, pepper. Roll chicken pieces in flour, place in cream. Cook uncovered over low heat until cream has cooked down and chicken is brown on underside; turn, brown all sides; cook until well done. The cream changes to a golden fat for delicious gravy. Remove chicken from skillet. To fat add ½ cup flour, mix, add 1 quart milk. Cook, stirring constantly, until it thickens. Season gravy with salt, pepper.

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



Cold raw days are bad for cars—unless you protect 'em with Conoco Super Motor Oil. For Conoco Super with exclusive Oil-Plating® fastens a tough film of lubricant to moving engine parts. Oil stays attached to these parts even when engine is not running. Thus you're always sure of easy starts, wear-free operation. And here's extra proof

of Conoco's superiority! In the 50,000-mile desert road test, six stock cars were driven 70 days with 1,000-mile oil changes and proper filter service. At the test's end engines delivered gas mileage 99.41% as good for the last 5,000 miles as for the first 5,000. Average wear on cylinders and crankshafts was less than 1/1000 of an inch!

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



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

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