

Kansas Farmer



REMODELING an old pull-type corn picker proved a profitable shop project for Gerald, left, and Ivan McCrerey, who did the work as part of their on-farm training.



CUTTING THE grocery bill from \$25 to \$5 weekly was accomplished by the M. J. Andersons thru a well-managed garden. He is completing his first year's training.



SOIL CONSERVATION plays a leading role in farm program of Sam Finger, right, graduate of veterans on-farm training. Here he is working out a water management problem with Wayne McNish, county SCS technician.



AN ELECTRIC fence is used to good advantage by Thayne McCrerey, Brown county veteran taking on-farm training, in keeping his hogs on clean ground. One of his purebred Berkshire gilts can be seen in background.

These Fellows Are Really Doing Things

WHAT progress is being made by veterans taking "on-farm" training? *Kansas Farmer* frequently has printed stories concerning individual achievements of these veterans. Recently we took a sample list of 4 veterans in Brown county, ranging from one man who is completing his first year of training, to a fourth man who has completed the full course. Here is a brief report on what we found.

Listed as a well-balanced farmer is Thayne Ivan McCrerey, who is completing his fourth year. He is farming 120 acres and has done a good job of soil conservation. With his father he has accumulated a herd of 17 registered polled Shorthorns. He now is [Continued on Page 34]

- **To Get More Milk**.....Page 6
- **It Makes Soil Better**.....Page 9
- **Home to Freshmen Girls**.....Page 28

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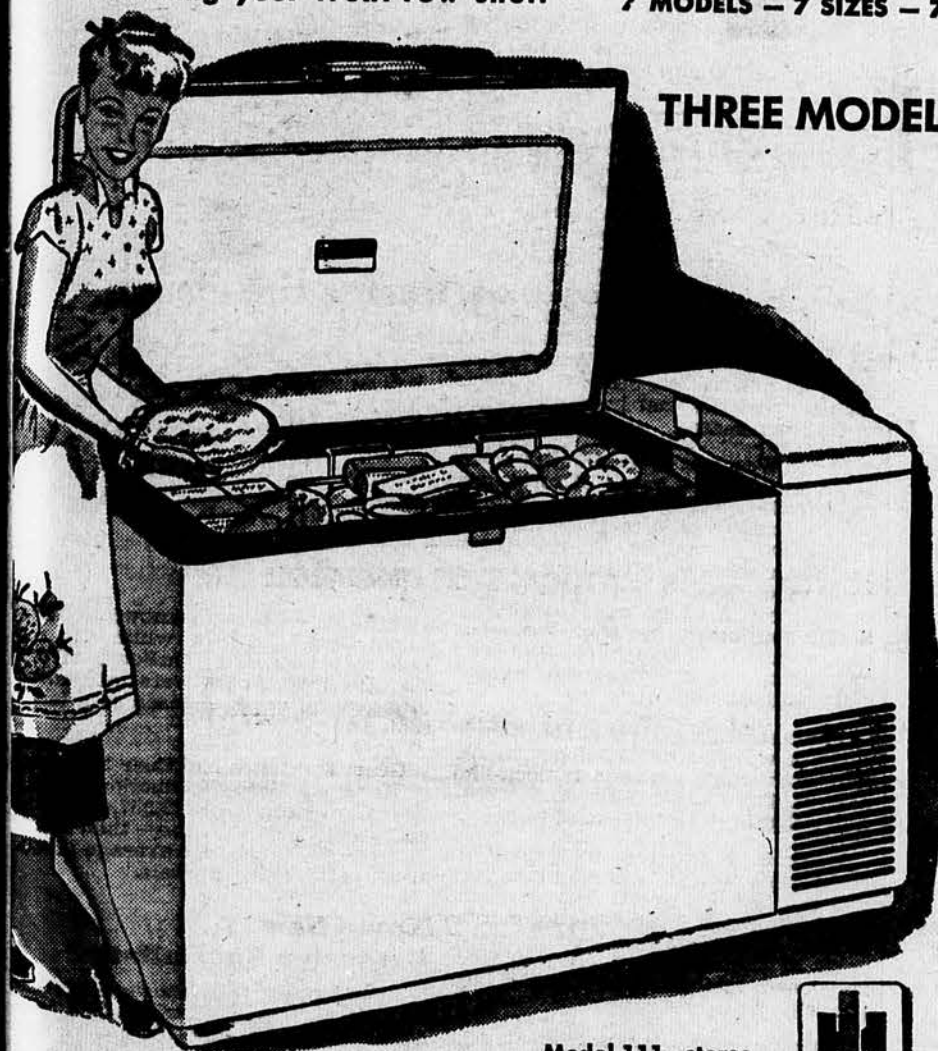
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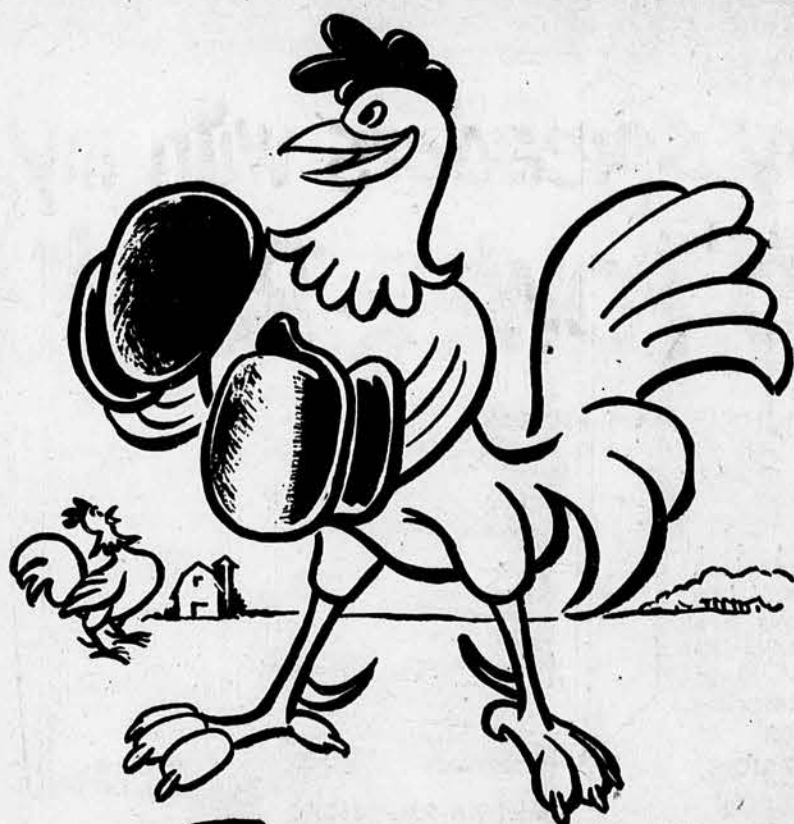
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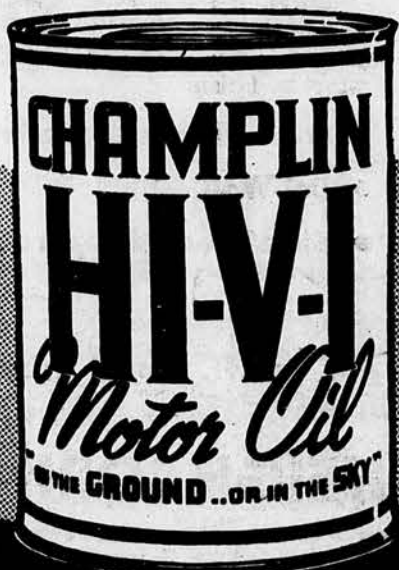
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Coming, Next Issue . . .

Knowing new recipes will be welcome at the tag-end of cold weather, the Home Department will offer "Time for Variety," a full page of new, tested recipes, full of flavor and good eating. Watch for the Kansas Farm Home and family page in *Kansas Farmer*, March 1.

No. 1 in a series on interesting facts
about Kansas crops . . .

Sorghum— Ancient, Popular Crop

By GORDON WEST

GRAIN SORGHUMS have been grown for centuries in most parts of the world and had their start in Africa and Asia. Natives in African regions like to chew the stem for sugar. The USDA yearbook for 1948 states grain sorghums probably were cultivated in prehistoric periods, making them one of the world's oldest crops.

Sweet sorghums were introduced into the United States about 1850, and the crop became an important one in 1857.

Today, many improved sorghum varieties have been developed by state agricultural experiment stations, "tailor made" for specific areas and conditions. When first imported into this country, sorghums grew to such a height they couldn't be harvested or threshed without a lot of hand labor. Some varieties grew to 6 feet, some had bent heads, some weren't suited to harvesting machines of that day. Since then plant breeders have solved many problems, but still are looking for new varieties that have resistance to certain diseases.

In the West Indies, sorghum is known as Guinea corn. A group of sorghums called milo are believed to be native of Africa, and were first grown in the United States in 1880. To Italy goes the honor of first cultivating broom-corn; today, Kansas is a leader in production of this group of sorghums. Shalla sorghum came from India but became known in the United States as "Egyptian wheat," "Mexican wheat" and "California wheat."

An interesting variety of sorghum is Cody, a waxy-seeded kind grown for its starch which makes a tapioca-like dessert. The Kansas Experiment Station aided in development of Cody.

Work is in progress in Kansas to develop a new variety of sorghum that will pop large kernels like popcorn. Whole grains of some varieties can be popped or puffed. For food in many parts of the world, the grain usually is ground into meal and made into porridge, bread or cakes.

Sorghum sirup became popular in the United States, and millions of gallons are produced each year.

In agricultural production, sorghums are popular because they can be an alternative cash crop for wheat and cotton regions; stubble and residue left over provide fair protection against soil blowing, can supplement wheat pasture for range livestock; sorghums are an economical and stable supply of feed grain. Today, "sheeping off" of combine grain sorghums opens up a

new opportunity in livestock feedings.

First permanent importation of grain sorghums were brown durra and white durra. These came from California, and from 1880 to 1884, white durra was grown in Kansas as "rice corn" and



from 1890 to 1894 was known as Jerusalem corn." In 1876, white and red kafir were imported from South Africa. Then in 1886, kafirs were introduced into general use in Kansas on a large scale.

Grain sorghums had their best year in Kansas in 1951. Production for the year was estimated at 42,357,000 bushels, or 261,000 bushels more than 1950's large crop. The 10-year average (1940-1949) is 22,479,000 bushels.

Name New Extension Specialist

A 1947 graduate of Kansas State College, Mrs. Winona Starkey, has been named Extension home demonstration specialist at the college. She is a former Riley county assistant home demonstration agent, and was president of the Kansas Home Demonstration Agents Association last year.

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Continuing Mail & Breese

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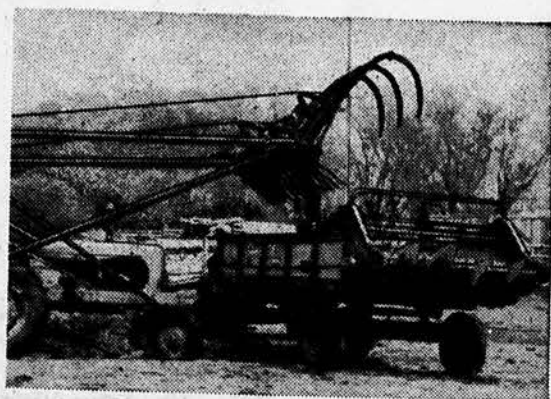


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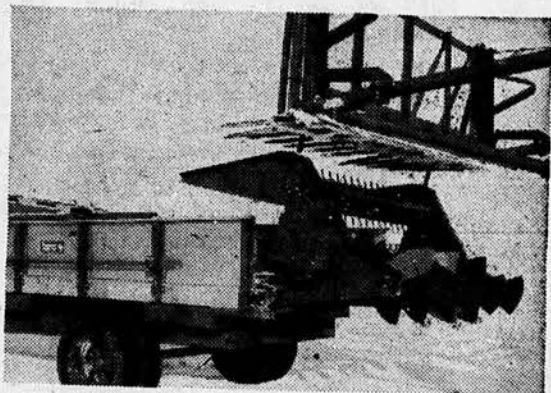


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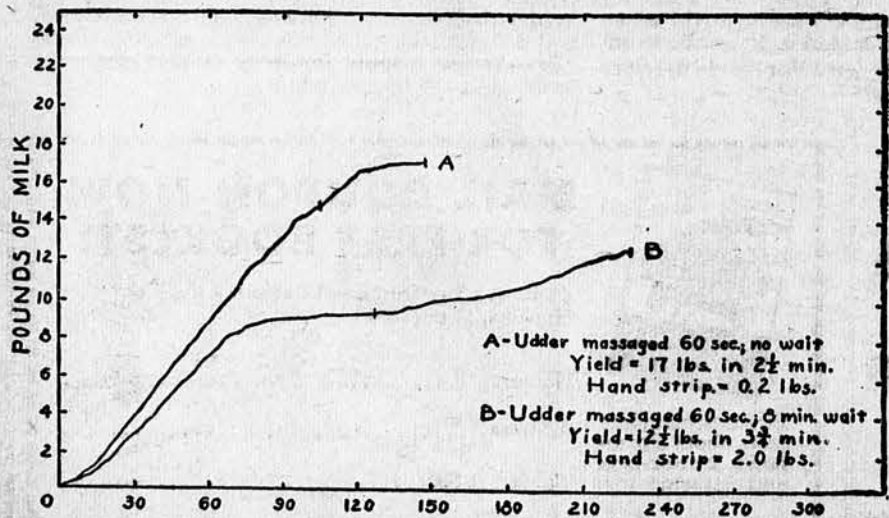
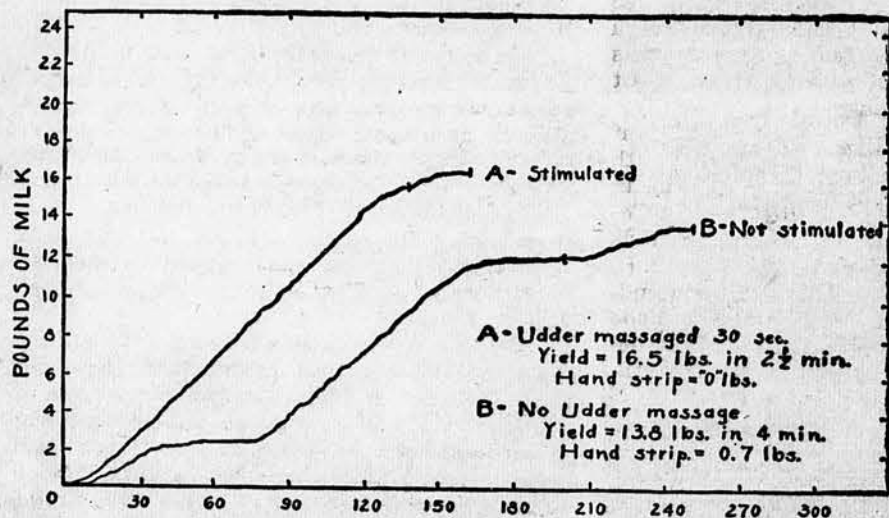
Milking Poorly Done Cuts Milk Flow

By GLENN H. BECK

ON MOST dairy farms milking is a chore that is done at some time or other by every member of the family. Altho milk represents our largest single source of cash farm income, there are many who regard milking as one of the most tedious, menial tasks on the farm. Because milking is so ill-regarded and so commonplace it often is poorly done, thus resulting not only in decreased milk yields but also in injury to the udder.

Good hand milkers are rare. This is a skill that requires patience and understanding, and above all a natural love to work with cattle. There is no substitute for a skillful hand milker. Nevertheless, development of milking machines has proved a blessing to the dairy farmer. Machine milking is better than most hand milking. It is easier to train an individual to operate a milking machine than to train him in the art of hand milking. Also, the machine has removed much of the drudgery from the milking chore.

Now let us consider some things we can do to develop good milking practices. An understanding of how a cow "lets down" and "holds up" her milk is helpful. There are 2 forces within a cow that are responsible for milk let-down. These forces are due to powerful chemical substances known as hormones. One of these hormones, which we will call the milk let-down hormone, is secreted by a small gland located just under the brain. [Continued on Page 36]



These 9 rules tell you how to improve your dairy methods. Following them will increase production, eliminate udder injury. Save this article for frequent future reference.



1. USING clean cloth or paper towel dipped in chlorinated water to clean and massage udder before milking will lessen milking time and increase milk flow.



2. ONE OR TWO full hand squeezes of milk taken from each teat ahead of milking machine will aid milk let-down. Attach machine shortly after cow is prepared.



3. PULLING DOWN on claw and holding steady pressure for about 30 seconds at end of milking period may eliminate hand-stripping and it straightens out ducts and teat canals.

Kansas Farmer

News and Comment

Expected of Kansas

TWO things are certain in an uncertain 1952. Demand for farm products will be strong. Prices for farm products will be very close to the 1951 level, provided we have good growing conditions. This means another favorable year for Kansas farmers.

On the demand side, Uncle Sam is calling for a new record high level of total crop production. Also, a new high mark in livestock production is expected. The Department of Agriculture states there is need for full use of every idle acre in 1952.

Let's see what is expected of Kansas. Wheat growers were asked to seed 15 million acres last fall. You got the job done by seeding 15,216,000 acres. This isn't a record acreage for Kansas, but it would seem enough because it represents 88 per cent of our total acreage of cropland.

The largest acreage doesn't always mean the biggest crop. Take 1937 for example. That year Kansas growers seeded 17,110,000 acres of wheat that turned out only 158 million bushels of grain. But back in 1931 you seeded 12½ million acres and produced 240 million bushels; 11 million acres in 1942 produced 200 million bushels. You recall that 15½ million acres in 1947 produced 286 million bushels of wheat. Can 1952 match that production?

When this year's 15-million-acre goal was set up the Department of Agriculture hoped it would average 14 bushels an acre for a total of 210 million bushels. Right now the condition of Kansas wheat is reported above normal for this time of year; prospects for winter wheat now are better than at any time in the last 5 years. If this is any indication, and it could be, it might actually be possible to set a new all-time wheat production record in 1952. Some growing has been reported.

Corn goal for Kansas is 3,050,000 acres planted which it is hoped will average 29.2 bushels for a total crop of 89,207,000 bushels. This would be a 9 per cent increase in corn acreage; or the increase can be obtained by wise use of fertilizers. Grain sorghum goal is 1,730,000 harvested acres estimated to average 22.5 bushels to produce 39,353,000 bushels of grain. This is down from last year's 2,605,000 acres that produced 57 million bushels. But you will recall a great deal of grain sorghum was planted on abandoned wheat land last year. Uncle Sam asks Kansas farmers to increase oats and barley production combined by 11 per cent. Soybean goal for Kansas provides for the

largest seedings, 485,000 acres, and production, 7,308,000 bushels, on record. Beginning in 1942 soybean acreage and yield to the acre started to climb. This crop has proved very satisfactory in central and southeastern counties, where expansion will come in 1952. Goal of 30,000 acres of flax with a production of 180,000 bushels is sharply higher than last year.

Those figures indicate the big production job ahead for Kansas farmers in 1952. What will hold up prices? Defense spending is one of the main props. In the year from the fall of 1951 to the fall of 1952, expenditures for defense are expected to increase "from an annual rate of 41 billion dollars to 65 billion dollars." Folks in towns and cities who buy food are likely to have 5 or 6 per cent more income to spend, USDA reports. And price supports are being used to stimulate high production on farms. Wheat, rice, corn, cotton, wool, soybeans, milk and butterfat will be supported at 90 per cent of parity, maximum allowed by the Agricultural Act of 1949. Oats, barley, grain sorghums and rye will be supported at 80 per cent of parity, highest per cent allowed.

Ask for 4-H Stamp

BE SURE to ask for a 4-H postage stamp. If you are a collector you will want to save some. Farm boys and girls all over America have been honored by issuance of a 3-cent commemorative 4-H stamp which went on sale in January. The famous 4-H clover is seen on the stamp, also farm buildings and a typical farm boy and girl. Some 110 million of these stamps were printed, so your mail carrier or local post office should have a supply soon.

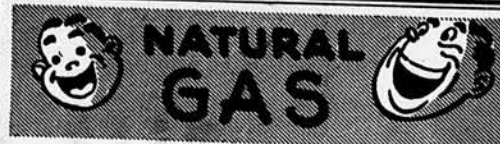
According to Osborne Pearson, assistant postmaster general, the first agricultural youth club was organized in Clark county, Ohio, in 1902 by Albert Graham, who now lives in Columbus. It was known as the "Boys and Girls Experiment Club." Some years later when O. H. Benson, young Iowa county school superintendent who created the title "4-H" and was made director of 4-H work in Washington, D. C., began organization on a national basis, the Graham club in Ohio adopted the name. So it is very fitting that 1952 may be considered as designating a half century of club service. With membership of 2 million the 4-H Clubs of America have made progress and history.

This Is Your Business

ONE thing Wayne Rogler, Matfield Green, had to say during the recent Board of Agriculture meeting in Topeka is worth thinking about. He said: "Since 20 per cent or more of our income now goes to pay for government, perhaps we should plan to give 20 per cent of our time to the affairs of government. If our money is to be spent wisely we must help plan how it is spent, especially on local and state level."

That statement makes a person wonder whether he has taken enough active interest in everything for which tax money is collected. Ask yourself some questions. Have you a clear idea of how much taxes you pay for schools, roads, car and truck licenses; how much state income tax you pay; how much federal income tax comes out of your hard-earned dollars? Have you ever kept account for a month or a year on how much you pay in so-called indirect taxes, state and federal, on all purchases?

And do you know how much you owe on the national debt of 258 billion dollars? Apparently that national debt will be 5 or 8 billion dollars more by the end of this fiscal year, June 30, 1952. And it may be 14½ billion dollars more



Small boy to his daddy, "When a doctor gets sick and another doctor doctors him, does the doctor doing the doctoring have to doctor the doctor the way the doctor being doctor'd wants to be doctor'd, or does the doctor doing the doctoring of the doctor doctor in his own way?"

"Many an argument is sound—just sound."

"Of all laborsaving gadgets invented for housework none has ever been so popular as a devoted husband."

"After every divorce, the grass widow feels like a new man."

"A budget is a method of worrying before you spend instead of afterwards."

"Sign on honeymoon car: 'Till Draft Do Us Part.'"

Said the kindest man in town of the meanest man in town: "Well he isn't always as mean as he is sometimes."

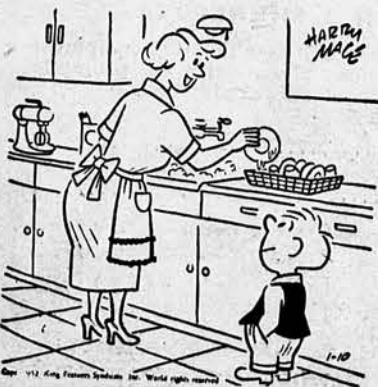
No wonder you are tired of a morning. Experts say you move 8 times an hour in your sleep. If you weigh 170 pounds, you move 1,360 pounds every hour. In an 8-hour night you move 10,800 pounds. That's enough work to make any man tired.

in another year if the administration gets all it asks to date.

We've got to remember that national debt is your debt and my debt. Already it is 258 billion dollars. How long do you think it would take you to spend one billion dollars at the rate of \$1,000 a day? About 2,740 years! In other words, if you had started spending one billion dollars at the rate of \$1,000 a day in the year one, you could have spent \$1,000 a day for 1952 years, and still go on spending \$1,000 a day for 788 more years. That would get rid of only one billion dollars.

Also ask yourself who has authority to levy and collect taxes; who has authority to spend your tax money, and what this money can be used for in the way of goods and services. Legally taxes can be levied, collected and spent only as voters authorize either by direct vote or thru various officials voters put in office. If you are not satisfied with the way this big business of government is being run, you can let it be known in plain words to everyone from your congressmen on down the line.

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"Of course you may, I have absolutely no objection to your growing a mustache."



"NOW I know why a gentleman should never strike a lady!"

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When you choose the 12-foot MM G4 HARVESTOR, you get the harvesting features that count at a price that's right. MM HARVESTORS still feature the original single-unit construction that did so much to reduce weight and increase durability and ease of handling. These MM HARVESTORS are surely QUALITY leaders!—Built to get all the grain, to separate all the grain, to clean all the grain and to save all the grain. Straight-through design insures efficient big

capacity threshing... exclusive MM cylinder feed eliminates slugging, assures even feeding at all times... a sturdy rasp-bar cylinder and one-piece, all-steel, welded concave and grate thresh the grain uniformly and gently without cracking it or breaking the straw to bits... spacing between the cylinder and concave and speed of the cylinder can be easily changed to meet varying crop conditions... heavy-duty, galvanized, all-steel straw racks provide extra large separating surface and capacity... exclusive MM grain pan assures a steady, evenly distributed flow of grain toward the cleaning shoe and prevents bunching of the grain when operating on rolling fields.

Uni-Matic Power on MM TRACTORS can be used for hydraulically lifting, lowering, and varying the height of cut on the G4 from 1½ to 32 inches, 2 to 41 inches on the Self-Propelled, 2 to 40 inches on the HARVESTOR 69.

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MM G4 HARVESTORS are noted for their quality construction. Header and thresher are built as one unit, balanced over the main axle for easier handling and positive operation at all angles. Wheels of large diameter are Timken bearing-equipped and pressure-lubricated for long life and smooth performance. High quality ball and roller bearings are used on all high-speed or heavy-

load shafts, assuring long-life dependability. Simplified belt-drives with adjustable sheaves provide flexibility for all crops and conditions.

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- ☐ MM G Tractor 4-5 Plow Power
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☐ MM R Tractor 2 Plow Power

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HARVESTOR AND TRACTOR WITH EASE!

New Chemical Promises To Make Soil Better

... A synthetic compound called Krilium is reported to improve tilth, moisture storage, drainage and aeration; check sheet erosion, evaporation losses and crusting, all of which add up to less work and bigger yields.

By M. N. BEELER



MORE AND LARGER TOMATOES, left, and carrots, right, can be expected from poor soil treated with Krilium, according to basic research and growth studies at Monsanto Chemical Company which developed the synthetic polyelectrolyte.

A NEW soil conditioner will be on the market sometime in 1953. It is a chemical called Krilium which is applied like fertilizer or any other land treatment.

Monsanto Chemical Company, developer of the compound, says it is 100 to 1,000 times more effective in improving soil structure than manures, compost, peat moss or crop residues. Altho Krilium (rhymes with trillium) is not a fertilizer, its action in improving soil structure apparently makes plant foods more readily available and so increases yields.

The new product was announced December 29, 1951, by Charles Allen Thomas, St. Louis, president of Monsanto, at the annual meeting of the American Association for the Advancement of Science, in Philadelphia.

Up to now, only pilot tests of Krilium have been made. But the experiments have been conducted under varying conditions and on various soils thruout the United States by about 80 scientists. From their reports, Dr. C. A. Hochwalt, Monsanto vice-president and director of research, concludes:

"Krilium is expected to have wide application as a soil conditioner for home gardens, truck farms and greenhouses. It also may be useful in commercial agriculture."

Here are some of the advantages observed from adding the chemical to soil:

Improved structure—The ideal structure for well-conditioned soils is made up of crumbs or granules the size of a pinhead to a pea. Such structure exists in virgin soil containing much decayed vegetable matter. It can be

had in worn soils, particularly clays and silts, by adding organic matter. But such vast quantities are required for the ideal condition that the process is long and expensive.

Monsanto says Krilium will substitute for organic matter in this purpose. The right treatment will cement the particles into granules of desirable size which resist both slaking by water and decomposition by soil organisms. Action is speedy. Formation of clay aggregates or granules is readily noticeable within 24 hours. The soil mass becomes porous and friable with small spongy balls.

How long the treatment will last, nobody knows. But in speeded-up laboratory tests the structure induced by treatment has stood up 30 times as long as that obtained by applying commercial composts. No deterioration of greenhouse and field plots has been noted in 3 years. But tilth can be destroyed by compacting and overworking.

Better moisture intake—A porous, spongy structure means more rapid and greater water intake. Since the granular surface does not seal, water does not run off so readily.

More water storage—A loose, open structure provides more storage space for water in the plow zone and provides more rapid percolation into subsoil and so more storage there. Krilium-treated soil has improved water infiltration as much as 300 per cent.

Better aeration—Despite greater water holding capacity, the treated soil is well aerated, because of the spongy condition. Altho it drains freely (downward by gravity) the soil retains as

much as 30 per cent more moisture after saturation and drainage.

The extra pore space provides easy entry for oxygen which is necessary for plant roots to feed well. Thus more of the nutrients in soil, whether added or naturally present, become available to crops. Also improved aeration encourages desirable soil organisms, and there's some indication it may discourage some soil-borne diseases such as damping-off and root rot.

Less evaporation—the granular plow zone serves as a mulch against losses by evaporation from the subsoil. Monsanto says in some tests, a treated soil took twice as long to lose half its moisture as an untreated soil of the same type.

Better seed emergence—Since crusting after rains is retarded or eliminated, seedlings have a better chance to come up to a good stand. Crusting is often fatal to sprouting seeds of such crops as clovers, alfalfa, soybeans, beans, peas, cotton, sugar beets and even corn.

Easier tillage—Treated soil is more workable, offers less resistance to implements and so requires less power and labor in tillage and cultivation. Further the soil can be worked at higher moisture content without causing puddling when it dries. Monsanto reports that 45 parts of water added to 100 parts of Paulding clay made a muddy "soup." But when 0.1 per cent of Krilium has been added to the same type soil, the same amount of water produces a moist, crumbly, easily-worked mass of small aggregates.

Bigger yields—Altho Krilium is not a plant food, all the foregoing improvements it works on soil add up to better yields. Limited field plot tests with treated heavy clay and treated sandy soil gave the following average yield increases: Potatoes, about 45 per cent; radishes, 15 per cent; corn, 20 per cent; Chinese cabbage, 20 per cent. In individual cases radishes and carrots gave 30 to 100 per cent increases, and corn 50 per cent. But Monsanto warns these tests are so limited no definite conclusions should be drawn. No claim

is made that Krilium will increase all yields under all conditions.

Also remember that to date no results from larger field trials are available. Monsanto seems to think that experimenting up to now indicates the new chemical probably will be useful for conditioning home garden, truck farm and greenhouse soils.

What application can be made in farming operations is anybody's guess. It all depends on what large-scale conditioning with Krilium will cost and the benefits that will come from the investment. But a little speculation may be justified.

If the new chemical pans out it might help speed restoration of a lot of worn-out land. The greater water holding capacity might tide crops on good land over the recurrent dry spells in the humid and semi-arid regions. Particularly it might make nitrogen more effective at earing and tasseling stages for corn. Treatment might substitute for the organic matter which the plains country never had in desirable quantity. The granular plow zone condition might slow or prevent wind erosion and dust storms. It could possibly result in more moisture storage and retention to insure or increase crop yields.

It might speed re-establishment of range grasses. In irrigated areas the preliminary production of plow-down crops to add organic matter might be bypassed. Then once the soil condition is established, less irrigation water might be necessary because more of that applied to the land would be used by crops. Deposits of alkali and other water soluble salts by evaporation might be slowed. Or maybe conditioning might help wash the accumulations out of already damaged surface soil.

Even if field treatment proves impractical, maybe row treatment won't be. Lister furrows or even surface planted rows that won't crust helps out in crop production.

Krilium seems to have possibilities. But of course, time, not speculation, will prove its value in farm operations.

Coming, A Trip to Hawaii . . .

Preston Hale, retired county agent after 30 years of service, and Mrs. Hale, want you to enjoy the experiences of taking a trip to the Hawaiian Islands. Beginning March 1, *Kansas Farmer* will bring you parts of interesting letters the Hales have written. There'll be pictures of pineapple and sugar cane production, and interesting bits of information on Kansans now living and working in the Islands. Ready? Let's take a trip! March 1 is the day.

R. I. Throckmorton Retires as Dean

EFFECTIVE July 1, R. I. Throckmorton, dean of agriculture at Kansas State College, will retire from his duties after 40 years of outstanding service to the college, to Kansas, and to the Nation. He plans to take a vacation, followed by research and writing activities. Fortunately he will remain with Kansas State College.

Dean Throckmorton plans to help coordinate research in the school of agriculture and do some part-time teaching. Dr. James A. McCain, Kansas State College president, and other officials, have expressed their wish to retain Dean Throckmorton on the college staff because of his outstanding professional skill and his unusual abilities for human relationships.

Following his work for a bachelor's degree at Pennsylvania State College, "Throck" came to Kansas State College in 1911. He received his master's degree from Kansas State College in 1922 and 3 years later became head of the agronomy department there. In 1946 he was appointed dean of the school of agriculture and director of the Kansas Agricultural Experiment Station.

Many honors have been awarded Dean Throckmorton, the most recent one being on January 9 when he received a distinguished service citation from the Kansas State Board of Agriculture. In 1951, Penn State College honored him for "professional eminence," their highest award.

Dean Throckmorton has been active in many organizations, honorary, professional and social. He is past president of the American Society of Agronomy, and belongs to other national groups.



Dean R. I. Throckmorton

He has written many articles on soils and crops, became known for developing adapted crops, methods of conserving soil fertility, improved rotations, and for his teaching.

Wins Soils Degree

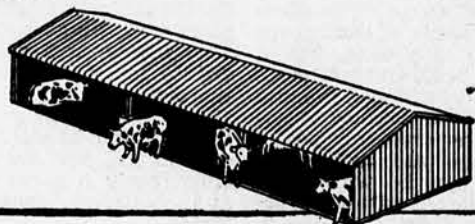
First woman to win a master's degree in soils from Kansas State College is Ursula Moser, of Cambridge, Mass. Miss Moser received her degree January 25 at midyear commencement. She plans to go into antibiotic research work, and earn a Ph.D. degree in soil microbiology.



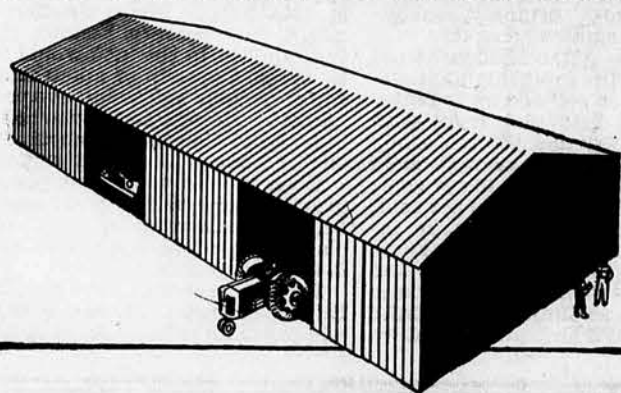
DR. R. M. HEDRICK compares a carton of Krilium with the peat moss needed to condition 100 square feet of garden at Monsanto Chemical Company's central research laboratories. Designed to improve soil structure by formation of discrete soil aggregates and to hold soil in place, Krilium currently is being tested by Monsanto and its collaborators for erosion control, agriculture and home gardening.

National F.F.A. Week
Feb. 17 to 23

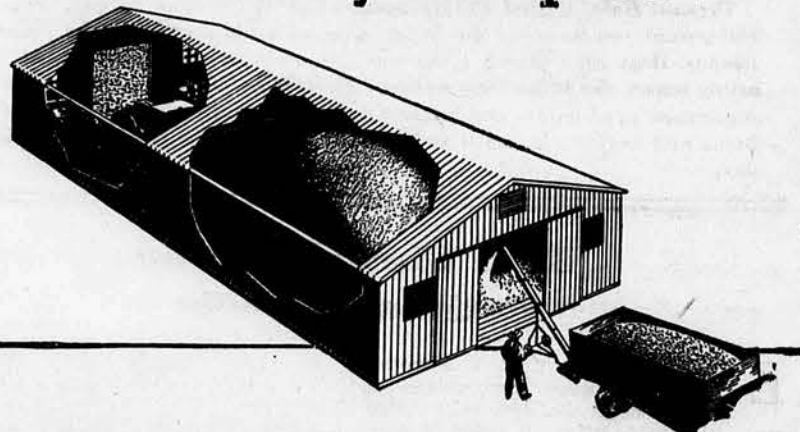
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Prairie Hay Silage Is Mighty Good Feed

By DWIGHT E. HULL

PRAIRIE hay silage and 4 bales of alfalfa hay are all we are wintering these cows on," was the astounding statement made by Herman Steimbushel, owner and operator of a 700-acre farm near Florence. He was talking to a group of young farmers, most of whom are veterans enrolled in on-the-farm training. I accompanied these young farmers to Mr. Steimbushel's farm to see and hear firsthand, his experience of making grass silage out of native prairie hay, and see results he is getting feeding grass silage to his registered herd of Angus cattle.

We gathered at the barn where Mr. Steimbushel and his herdsman, Jessie Arnold, age 76, greeted us and proceeded to show us some younger members of his herd. A group of 10 coming 3-year-old heifers, some with calves by their sides and others near calving, were quietly mowing away some of this prairie hay silage.

The boys began picking up the silage, feeling it, smelling it, tasting it and with a look of amazement on their faces began firing questions at Mr. Steimbushel and his herdsman. How did you put it up? When did you put it up? What kind of cutter did you use? Did you wilt it any? What did you use for a preservative? How much waste do you have? You mean to say you don't have to use cake when you feed this silage?

About this time, Mr. Arnold, the herdsman, spoke up. "I have been feeding cattle all my life and I am past 76. I consider this the best feed I ever fed cattle."

How It Was Done

Mr. Steimbushel said: "Well, boys, we just mowed it, using a swather on the mower and followed the mower as closely as we could with a field chopper. The chopper blew it into dump trucks and they hauled it to the trench silo and dumped it in. I stayed at the silo and spread the silage with that old 4-wheel-drive truck and put on about 5 pounds of stock salt and No. 10 can of Omolass to the load. There was about a ton and one half of silage to the load. We definitely feel salt and Omolass helped in preserving the silage. We have seen some prairie hay silage that was put up without preservative and it was sour, foul-smelling stuff. Now these cows are getting what grass silage they will clean up and one bale of this alfalfa hay you see and that is all they are getting."

We agreed the hay was not of the best quality. The boys carefully looked over the cows and all agreed they were in excellent condition. Calves had a creep where they were beginning to eat prairie hay silage.

As a sidelight of the trip, before we left the barn lots, Mr. Steimbushel showed us a water ram in operation. Only a few of us had ever heard of one and only one had ever seen one. A walled-up spring just west of the barn supplies the water, and the water ram located a little below the spring pumps water to stock tanks and to the house which is 25 or 30 feet above the water supply. The water ram requires no power, the pressure of the water and action of the ram forces water to the

house. An overflow in the supply tank takes care of surplus water. Running water on the place and the only cost is a small investment in a water ram.

We moved on to the meadow where the silo was located and more questions were asked. The silo was about 100 feet long, 24 feet at bottom and 30 feet across the top. Silage was about 8 feet deep. "We figure we got a good 400 tons of silage this year," said Steimbushel, "all off this meadow of about 120 acres. We don't pasture it at any time, not even in fall after grass comes up again. We believe this is necessary to maintain a good grass stand. We haven't used any fertilizer on this grass yet but plan to do so." Mr. Steimbushel hired the silage cut and put in the silo and said it cost him \$3.50 a ton.

Silage Ahead of Alfalfa

Over in the pasture, where they had pastured during summer, were 37 head of breeding cows and a few late calves. The cows were just finishing the prairie hay silage and had begun to move over to the feed racks for their daily allowance of alfalfa hay. "See there," remarked Steimbushel, "they will always clean up this silage before they go to their alfalfa. We have some alfalfa silage too," he remarked, "but the cows will actually leave it if they can get the prairie hay silage. I will admit, however," he said, "that my alfalfa silage wasn't first class, as it got flooded."

"Now, these cows get 4 bales of alfalfa a day with the silage, no grain, no cake, and this is the second winter we have handled these cows this way." Again condition of the cows was excellent.

"We got started with this prairie hay silage a year ago because I had the farm ground rented and the renter failed to raise a crop," said Mr. Steimbushel. "I had to have feed for my cows. I had heard rumors of prairie hay silage, tried to get some information, but the most I got was that most everyone thought I would have a mess of rotten stuff unfit for anything. But my back was to the wall so I jumped in. And now I never expect to be without it. I do not have any row crops or small grain, just grass farming. You see, I'm kinda lazy and don't care to work too hard, and I love my cattle and want to spend all my time with my cows."

Some of you may be wondering what this has to do with dairying, since this column is supposed to be devoted to dairying. Well, to me prairie hay silage has just as much possibilities for the dairyman as it has for the beef man. A sample of prairie hay grass silage was analyzed at the college at Manhattan, and was found to have about the same nutritive value as good sorghum silage. We were sold enough on prairie hay grass silage before we visited Steimbushels that we already had made our plans to put up a couple of hundred tons this summer. Perhaps we can tell you next winter what dairy cows will produce on such silage.

This is the month most DHIA associations in Kansas are having their annual meetings. Next issue of Kansas Farmer we plan to point out some ways we feel DHIA has been a benefit to our herd.

What's in a Name?

The ancients of the Mediterranean area and in Europe gave careful consideration to naming a new baby. Many names having an agricultural meaning came from the Greeks. Here are some of them: George, a farmer; Demetrius, or Demeter, goddess of fertility and harvests; Tracy, "carrying ears of corn"; Teresa, Tess, Tessa, the harvester; Filippa, lover of horses; Hermine, of the earth; Theresa, "carry ears of corn," and Melissa, honey or honeybee.

Some other interesting names with a rural background include: Edna (Celtic origin), a kernel; Adam (Hebrew), man of red earth; Clay (Teutonic), of the earth; Garth (Anglo-Saxon), gardener; Sherman (Anglo-Saxon), a shearer; Thayer (Teutonic), an animal; Leland (Anglo-Saxon), from the meadow land; Rachel (Hebrew), a female sheep; Calvert and Calbert (Anglo-Saxon), herdsman, and Bartholomew (Hebrew), son of furrows.

Thru the ages, people have chosen names because of the fads of the day, beautiful soundings, spelling, many other reasons. Some of the most unusual and interesting names of all have sprung from the earth and her animals.



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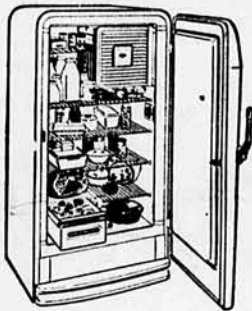
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Thoughts TO LIVE BY

"Honeymoon"

I MARRIED the boss's daughter. When that statement is normally made, it speaks of personal romance or business acumen or both. But on the occasion in mind, I was the officiating clergyman. The statement is still significant, however, for in this case, it inspires a thought to live by. The charming bride was Thelma Jean Gilkeson, daughter of the editor of this magazine. The admirable groom, William J. Halladay, Jr., is a lieutenant in the Air Force. Their wedding and reception that followed were beautiful, sacred, and joyous. It is good to have memories of a service like that. Loved ones and friends near at hand rejoiced with the happy couple, as will readers of this column.

After the rice was thrown, the newlyweds fled on their honeymoon. Now they are back in town, but that need not mean their honeymoon is over. The honeymoon is that happy period when bride and groom live for each other. It doesn't necessarily end because a couple settles down to the serious business of life. There is no reason why a honeymoon shouldn't last 60 or 70 years. Every couple dreams about abiding happiness. Mentally, they project into the future a home built upon love in which there are harmony and security. They want their union to be "the ideal marriage." That is a wonderful goal every couple should reach. But despite their good intentions, many fail. Not a few homes are wrecked upon the hidden rocks. How can a couple avoid such a fate? Let me suggest several things.

First, they should not take each other for granted. There is no reason why the groom should stop being polite to the bride just because she is his wife, nor is there any justification for the bride making herself less attractive to her husband than to other men. They should keep on being lovers.

Second, they should talk every problem over frankly. No problem is insoluble that is faced openly by lovers. But let either member of the union forget that he is on a team and try to play the game alone, and trouble will surely follow. The person who hides something from his mate (Christmas and birthday presents excepted) has sabotaged the happiness of his own home.

Third, they should keep on growing. No one need be disappointed because his love at thirty is different from what it was at twenty. It should be deeper. If it is, let him rejoice. If it is not, let him look for the trouble in himself. He who keeps on growing, who acts his age, will find compensating values in every period of life.

Fourth, couples need not worry about an occasional spat. Let him who gets angry go out and take a walk until he cools off. Fresh air, if he gets enough of it, may prolong his life. After the walk, it is time to kiss and make up. Paul said, "Let not the sun go down upon your wrath." This advice is of great value in domestic relations. No one should go to bed while he is angry, for anger will poison his system while he sleeps and that in turn will seriously damage the harmony and happiness of his home.

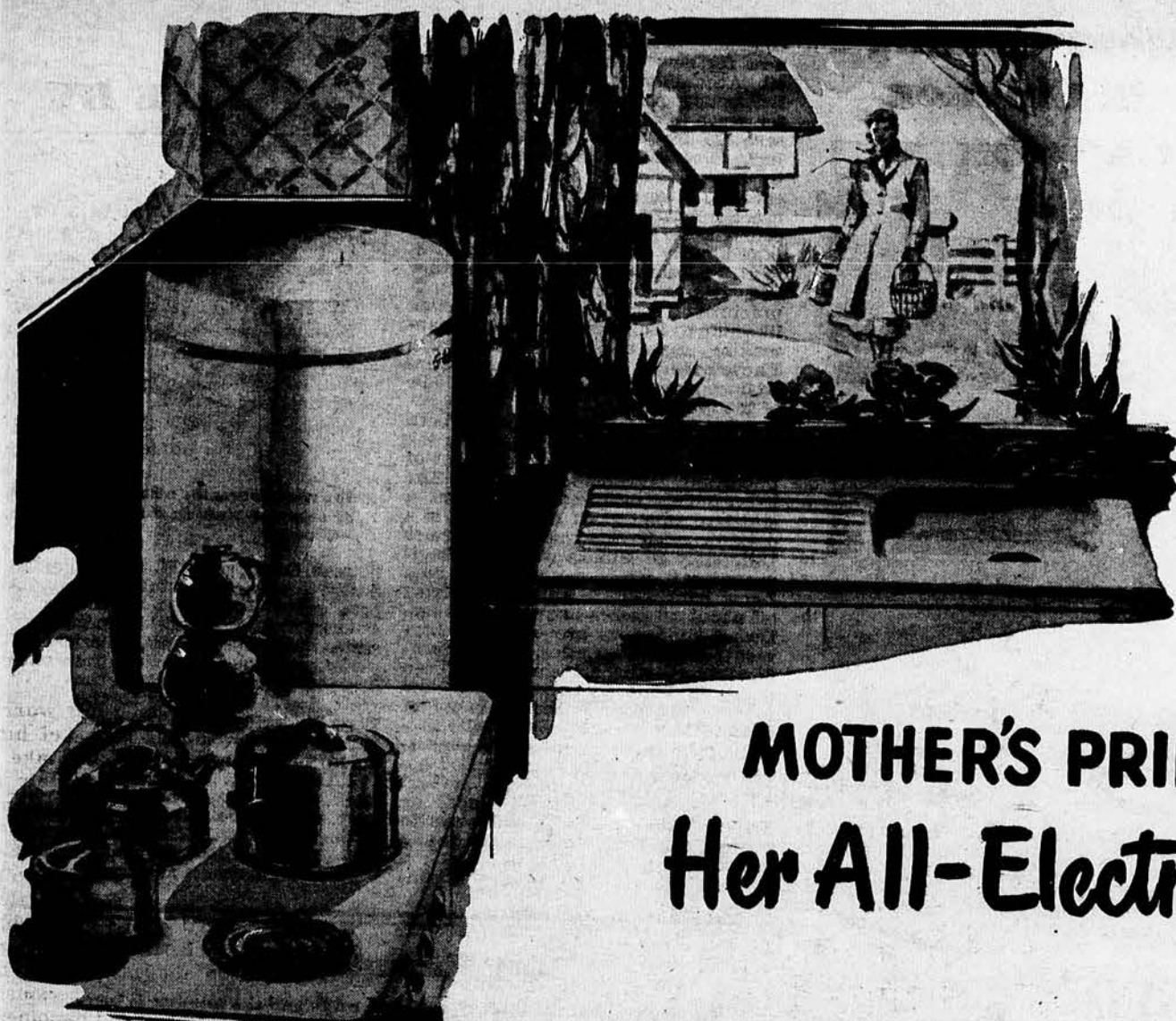
Fifth, everyone takes himself into marriage. If he was grossly unhappy as a single person, he shouldn't blame his spouse because he continues to be unhappy. Marriage gives us an opportunity to double our joys and cut our sorrows in half. Married life will be more satisfactory to the person who does not expect the impossible from it.

Sailing upon the sea of matrimony can be a wonderful experience as many an old mariner will testify. To the young couple who inspired this article and others who are launching out upon the deep, we wish the greatest joy and the richest blessings.

—Larry Schwarz.

GRANDMA By Charles Kuhn





For
CONVENIENCE

BETTER
MEALS

MORE
SAVINGS



MOTHER'S PRIDE and JOY Her All-Electric Kitchen

Today farm women can get a lot of work done and still have leisure time when they have an all-electric kitchen. Take Mother's automatic electric range for instance. Now she can cook an entire meal—automatically—while she works in the garden or tends her chickens.

You can be sure her electric hot water heater is high on the list for making her work easier, too. She loves that piping hot water every time she turns on the faucet because dirt from dishes disappears like magic—clothes come clean with half the effort! And what a help it is if the children are little, for washing those healthy but dirt-smeared little hands and faces.

Today electricity is the biggest bargain in your farm home budget. Reddy Kilowatt, your electric servant, works for pennies per hour—whether he's grinding feed, washing, ironing, running your radio or doing any one of 225 different farm jobs.

"WE COULDN'T DO WITHOUT ELECTRICITY"

Certainly Mrs. T. C. Davis of the Tonganoxie community, Leavenworth County, mother of the two girls pictured above at left, would miss electricity if it were suddenly taken away.

Most anyone would share her feelings if it were necessary to suddenly have to do without these symbols of better living in the Davis home. Here they are:

Range, refrigerator, washing machine, iron, sweeper, 2 electric clocks, freezer locker, electric water system, hot water heater, food mixer, toaster, waffle iron,

sandwich toaster, electric blanket, heat pad, and last but not least electric lights everywhere—inside and out.

And Mr. Davis finds Reddy Kilowatt a willing helper about the barn and farmstead. He has a milking machine, an extra large milk cooler, electric water pump on the well, electric brooder, a power saw and drill.

Can any Kansas farm family beat this record in the number of electric appliances—all designed to make farm life better?

See one of our representatives or your local electric dealer. They have many plans and ideas that will be a great help to you in selecting those new modern appliances for the home or labor-saving items about the farm that pay for themselves in a short time.



Wanda and Maridel Davis, Tonganoxie, sisters who are very active in 4-H Club work. Wanda, left, is 15 years old and Maridel 11.

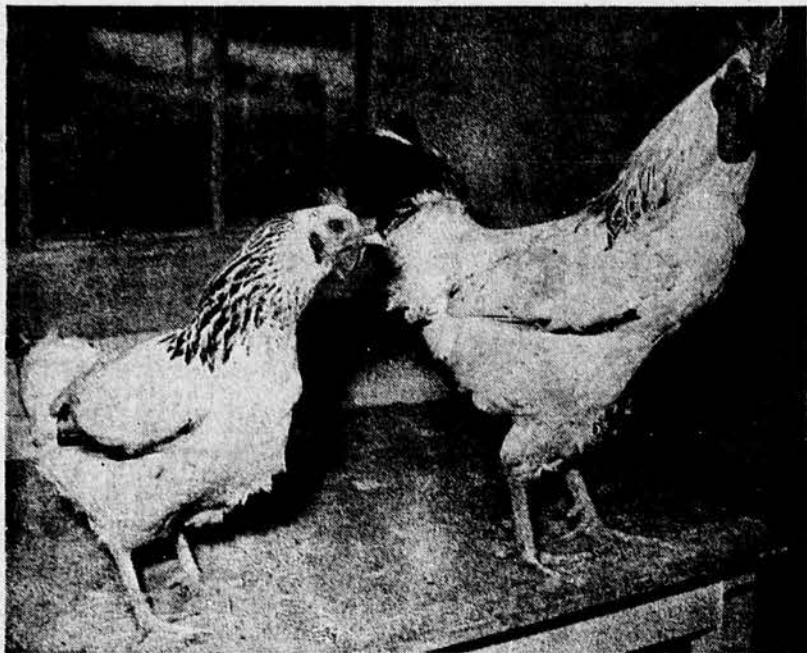


ELECTRIC LIGHT AND POWER COMPANIES IN KANSAS

Central Kansas Power Company Kansas Gas and Electric Company Eastern Kansas Utilities, Inc.
Western Light & Telephone Company Kansas City Power & Light Company
The Kansas Power and Light Company



More White Meat Coming On Tomorrow's Chicken



NEW BREED: This is the Columbia, new poultry breed developed at Beltsville. Now the Dark Cornish breed is being crossed with the Columbians to produce birds with more breast.

THEY'RE crossing everything else at the big Agricultural Research Center at Beltsville, so it wasn't a bit surprising to learn that in the poultry department they're crossing breeds of poultry.

One of the crosses developed at Beltsville has become nationally famous—the Beltsville White turkey—that “family-size” turkey that comes in the economy package. In getting that small turkey White Austrian turkeys from Scotland (figure that one out) contributed the small size and whiteness. Native wild turkeys contributed to the influence for smallness, too, also for the extra helping of white meat. White Holland, Bronze and Black turkey varieties helped make a turkey that would mature earlier.

This gives you some idea of what poultry scientists have to work with.

The present pride of Beltsville's poultry department is a cocky little Dark Cornish rooster. He looks like he would be more than able to take care of himself in a pit with mounted spurs. Altho a pint-size fellow, he has the amazing weight of 8½ pounds.

W. E. Shaklee, a young fellow new with the department, took us out to see the chickens and to meet the young Cornish champion. First the doughty little rooster refused to pose for his photograph. Then, when we attempted to catch him, he put up quite a little skirmish.

While there are some people, usually the youngest of large families, who profess to prefer the back or other such pieces of chicken, the great American public prefers white meat. The little Dark Cornish rooster is being groomed to play a star role in providing more white meat in chickens.

For the Dark Cornish is literally cheery. The poultry boys at Beltsville look at the matter of white meat in a

highly scientific way. They are measuring the angle of the breasts of chickens. The best a New Hampshire Red can do in the way of a breast angle is about 45 degrees. The Cornish, on the other hand, measures a juicy 57 degrees. These latter birds also have shorter legs and shorter keel bones.

The Dark Cornish is being crossed with a Columbian chicken, a new breed that is the result of crossing other standard breeds. To get a Columbian the poultry experts crossed the Sussex, the Rhode Island Red, and the White Wyandotte. Actually it was a Sussex rooster and hens of the other 2 familiar breeds.

The Columbian breed is white laced, and has won some renown as a broiler.

Thus, we got a brief glimpse of what may be ahead in broilers, a bird with more and more white meat. And that suits us just fine!

Is It True?

IS IT TRUE the sunflower, official state flower of Kansas, is not native to this state? Is it true the blossom of the sunflower turns with the rising and sinking of the sun? Is it true the sunflower is a useful farm crop?

Sunflower seeds were brought to the “Sunflower State” in dirt clinging to the wheels of freight wagons from the Southwest on the old Santa Fe Trail, says Jim Reed, in the Topeka Daily Capital of January 29, 1951. It is not true, says the Book of Rural Life, the sunflower blossom turns with the rising and sinking of the sun.

Altho sunflowers have been used for years as a useful farm crop in many foreign countries, the United States today is breeding sunflowers for a more profitable farm crop. Also, machines are being designed for easier harvest-

ing. In Israel, experiments are being conducted in the Negrev desert wilderness for new uses for sunflower seed oil. According to the Encyclopaedia Britannica, sunflowers are cultivated for seeds in the U. S. S. R., England, several European countries, Egypt and India. The yellow, sweet oil obtained by compression is considered about equal to olive or almond oil for table use. Sunflower oilcake is used in many countries for stock and poultry feeding, is ordinarily exported from the U. S. S. R. to Denmark, Sweden and other countries. Sunflower oil is used in manufacture of varnishes, seeds are eaten like nuts by Europeans, is used in soap-making, says the New International Encyclopaedia. The sunflower was introduced into Europe about the middle of the 16th century.

A new harvesting machine has been designed which improves chances the sunflower may be added to the list of important Midwest cash crops. The harvester is mounted in front of a standard small-grain combine. It is a one-row affair—designed by 2 former University of Illinois students. Engineers say it can be manufactured as a 2-row harvester. A knife cuts stalks off about 15 inches above the ground. Dwarf sunflowers are easier to harvest than giant varieties. The new sunflower-harvesting attachment has been tested in Piatt county, Illinois. Nine farmers there produced 45 acres of dwarf sunflowers in 1950. While machine performance was excellent, better standing varieties are needed before sunflowers become an important crop. Further research is needed on better-yielding varieties and ways to prevent damage by disease, birds and insects.

There are about 60 species of sun-



The sunflower is the official state flower of only one state in the United States—Kansas.

flowers. One species, *H. tuberosus*, has fleshy, thickened rootstalks bearing tubers called Jerusalem artichokes. It often grows along roadsides in the East, states the Encyclopaedia Americana.

Kansas is the only state in the United States to name the sunflower the official state flower, according to the World Book Encyclopaedia. The sunflower is the national flower emblem of only one country in the world—the U. S. S. R.

Altho many uses have been found for sunflowers since before the 16th century, there remains one important use in the nature world. Sunflowers are the main source of food for many western seed-eating animals and birds.

Not Enough Food

There are about 2.3 billion people on earth and the number is increasing about 1 per cent a year. There is not enough food to go around. Only about one third have enough food. With present knowledge scientists estimate it is possible to feed the present population and more. This involves exploitation of the tropics and the sea where potential food sources lie.

The Prairie Jackrabbit

ONE of the most familiar sights in Kansas is the jackrabbit. But he's not a rabbit at all, he's a hare. Unlike hares, rabbits are born blind and almost hairless.

Hares live in nearly all parts of the world. Rabbits originally were European animals and are smaller than hares and have shorter legs and ears. They dig burrows but hares do not. The jackrabbit will make a small “nest,” can blend so well with his background that often the only thing that will give him away is his quivering and twitching whiskers!

A hare is a herbivorous animal—he eats only vegetable matter. For that reason, he has caused thousands of dollars worth of damage to farmers.

For years, jackrabbit “drives” have been held in Kansas and thousands of hares have been caught and killed. The American Indians held “drives” centuries ago when jackrabbit plagues struck.

Many people like the flesh of a hare as it has a special flavor. Jackrabbit food was a “life saver” in pioneer times, when many ate jackrabbit stew, jackrabbit pie, baked jackrabbit and fried jackrabbit. Some early-day pioneers mixed jackrabbit with pork at hog-killing time to make the sausage go farther!

Chinese of ancient days believed the hare lived to be 1,000 years old and turned white at 500 years! The hare often was used as a symbol of longevity. There are various colored hares—grey, white, blue and brown. The prairie jackrabbit is famous for his leaps, and is perhaps swiftest 4-footed animal known.

Fur of the hare, especially fur that turns white in winter, is used for imitations of more expensive furs.

Since hares breed most often in March, their excited actions at that time suggested the saying, “As mad as a March hare.” They jump up and



down, twist their bodies in the air and act as if they were actually intoxicated.

In modern times, a new use was found for jackrabbits—in the sport of coursing. This was introduced in Kansas in the 19th century by Irish and English settlers, mainly to combat jackrabbit plagues.

Some people in the Plains states think this is a good recipe for jackrabbit stew: Put plenty of water in pot. Put in a brick. Put in jackrabbit. Boil 4 hours. Remove jackrabbit. Eat brick.

Set Up Wheat Pest Project

Greenbug and wheat mosaic problems of Kansas wheat fields will receive added attention. Two more scientists have been assigned to the study, and men already are working on the problems at Manhattan, and at Garden City experiment station.

U. S. Department of Agriculture announces it is setting up a project to search out new ways of controlling greenbugs and wheat mosaic. Headquarters for the project will be at Stillwater, Okla.



DOUBLECROSS: Three breeds of chickens were crossed by poultry scientists at the Agricultural Research Center to produce new Columbian breed of chickens. J. P. Quinn, poultry geneticist, right, and M. W. Olson, line up Sussex rooster with Rhode Island and White Wyandotte hens, the breeds used in making the cross.

Let's get down to the SOLID FACTS!



(Continuation of standard equipment and trim illustrated is dependent on availability of material.)

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Look at the facts and you'll see that a Chevrolet truck brings you real savings, right from the start and on through the years.

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All over America there are more Chevrolet trucks in use than any other make. Talk over your truck needs with your Chevrolet dealer. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.



Fact No.1

More truck for less money

Stack up a Chevrolet truck against *any other truck* with comparable specifications. You'll find the Chevrolet truck costs you less to buy. You'll find that Chevrolet, for all its lower price, brings you ruggedness, stamina, and great truck features you won't find in many trucks costing much more.

Fact No.2

Rock-bottom operating costs

Hundreds of thousands of truck users have proved to their own satisfaction that Chevrolet costs least of all to own and maintain. Valve-in-head economy, in the 105-h.p. Loadmaster or 92-h.p. Thriftmaster engines, saves on gas. 4-way engine lubrication keeps oil costs low.

Fact No.3

Engineered and built for your loads

Chevrolet trucks are *factory-matched* to your payload. You don't waste money by buying "too much truck"—you don't risk work interruption by buying "too little truck." Frame, axles, springs, body, brakes and power are part of a well-balanced team that does the job at lowest cost.

Fact No.4

Lower, slower depreciation

Records show that Chevrolet trucks traditionally bring more money at re-sale or trade-in than other makes of trucks which cost about the same new. Chevrolet's market value stays *up* because the value stays *in*. Here is further evidence that Chevrolet is the best truck to buy!



2 1952 FERTILIZER SHORTAGE? Wise use is especially advisable, cautions USDA. Ask your County Agent which crops respond best to fertilizers in your area.



4 SEASONALLY CORRECT OIL for your tractor and other farm engines is in the Cities Service C-800 line of swifter-flowing, richer-bodied, cleaner-running oils. You'll know faster cold starting; sounder protection for steady, tough operation in any weather. Ask your Cities Service Farm Representative about his C-800 grades to save you engine wear and lay-ups... time and cash... starting now.



1 DR. WINCHESTER OF USDA with Angus identical twins—one of the pairs used in recent USDA feeding tests. Results show that calves on reduced rations during Winter make economical gains when placed on full feed in Spring. Such calves required less feed to reach 1000 lbs. than those continuously on full feed throughout the Winter.



3 EXAMINE FOR CATTLE GRUBS this Winter, suggests USDA. Spraying or dusting with rotenone kills the grubs; assures against heel flies next Summer that would produce more grubs. See your County Agent for best time and treatment.



5 CUT SHOPWORK and extend farm equipment life with Cities Service Trojan greases. For every use... every type of bearing... there is a Trojan type to save you lost hours and stretch farm production per horsepower. Get the custom-made Trojan greasing schedule that's right for your own needs, simply by calling your Cities Service Farm Representative now.

Marketing Viewpoint

By C. P. Wilson, Livestock; Leonard W. Schruben, Feed Grains; Paul L. Kelley, Dairy Products.

Can you give me some information on what your opinion is of the market for grass cattle next summer and fall?
—E. O'C.

It is difficult to appraise the cattle price situation that far ahead. Any statement we make will need to be qualified. In our opinion, the over-all demand situation will continue strong. Large government expenditures for foreign aid and defense indicate a continued high level of economic activity. Consumer incomes probably will continue high.

However, we expect an increase in supply of cattle and of beef on market this year. If we have a normal grazing season and favorable feed crop, the supply on market next summer and fall may not prove burdensome. However, feed supplies are short and, consequently, high in price this winter. It will take a very good crop to fill all our needs next year.

If we should have another short feed crop the supply of cattle on market next summer could be sufficient to break prices, at least temporarily. So it seems the principle element of speculation will be in feed supply and not so much in the demand situation.

How important is our wheat export trade?—A. S.

Since World War II the U. S. has exported about one third of our annual production, or about as much wheat as has been produced in Kansas, Nebraska, Oklahoma and Texas. What this means is that if we were to lose this outlet without finding another, the housewife would still be able to buy the daily loaf at about the same price and never know it if Kansas, Nebraska, Oklahoma, and Texas quit producing wheat altogether.

These facts, I believe, should answer your question, but it is only a start. Another question that all of us must help answer is "What should we do to hold this export trade?" The U. S. is currently exporting wheat by paying a subsidy to equalize the U. S. and world price. This 2-price system is more or less a temporary measure. We are also operating under terms of the International Wheat Agreement which has one more year to run, and then it will be up for renewal. I'm sure no one individual knows whether or not we should continue the IWA. We in the U. S. will answer this question by group action thru elected representatives.

Will there be price ceilings on farm prices of fluid milk this spring?—L. H.

This is a question many producers are asking. On January 15, the prices received by farmers in the U. S. for both milk and butterfat exceeded parity level. This is the level at which price controls may be imposed for milk not under Federal Order regulation. However, to date, February 7, there has been no indication that price ceilings will be imposed at the farm level.

While farm prices of milk have been advancing in recent months, we are now approaching the season of increasing farm supplies of milk. This will tend to reduce the upward price pressure on dairy products, and it is possible milk prices again could drop below ceiling levels in a few months due to seasonal increases in milk supplies of setting the seasonal adjustment factor used in calculating parity prices for milk and butterfat. A more favorable price relationship between milk and competing farm enterprises is expected during the year, and this should help retard the downward trend in milk production.

Little Tot Stories

The funniest stories in all the world come from the mouths of little folks, or so we think. If your little John or Mary said something you think is worthy of printing, won't you send it to us? This goes for any humorous story told by any little tot you know or know of. We will pay \$1 for any which we print. Please send to the Farm Service Editor, Kansas Farmer, Topeka.



Vocational Agriculture

By HELEN ANKENY



A HIGHLIGHT of the annual parent-son banquet given by the Fredonia Future Farmers was the appearance of W. S. Cummins, 20-year-old sophomore at Oklahoma A & M, Stillwater. He is national FFA president.

James Sanford and John Allison, Shawnee Mission Future Farmers, have set up quite a record for duplication of highlights in their lives. Both entered service on almost the same day, John in the army and Jim in the Coast Guard. Both were married the same evening; both are past FFA presidents; both State Farmers; both judging team members, and each represented his local chapter in the state FFA speaking contest. According to the Shawnee Mission FFA reporter, "each will probably become respectively General and Admiral on the same day."

The SM Future Farmers report their old drill press has been taken out of moth balls and is undergoing thoro modernization. Originally, hand powered with a heavy fly to provide necessary momentum, it will soon have an electric motor to do the work. The fly wheel has been replaced with a set of V pulleys for necessary speed reduction. An efficient table adjustment has been "invented" by these Future Farmers—Nick Hoge, Henry DeGraeve and Bill Mills.

Wamego Future Farmers and their adviser, E. E. Stockebrand, plan on being of material help in securing soil samples for the soil testing laboratory recently established in Wamego by the Chamber of Commerce. They hope to have the lab in operation within 2 months. They hope to have facilities available not only to Pottawatomie county farmers but nearby areas.

A report by Orville Roberts on "Atomic Energy in Your Future" was sponsored this month by Claflin Future Farmers at Claflin high school. Mr. Roberts' lecture was a combination of reporting facts, demonstration of atomic processes, and prediction of things to come. Mr. Roberts is the first person in the United States to present

to schools in a large area a lecture devoted to peacetime applications of atomic energy. He has spent 5 years in preparing his program and has visited the nation's mammoth atomic installations, talked with some of the country's top nuclear research scientists, and witnessed operation of the world's first atomic reactor.

Williamsburg Future Farmers and their instructor, Earl Anderson, were winners of radio station WIBW's scrap drive conducted recently. The chapter collected 48,700 pounds of scrap iron in 2 weeks. High individual in the drive was Ralph Basel, Williamsburg. Harveyville chapter took 2nd place—with 30,000 pounds of scrap and Roger Butler was high individual. Raymond Sigg is instructor. The drive was sponsored by Wes Seyler, farm service director of WIBW.

Results have been announced by F. R. Carpenter, Beloit, and his group of vocational agriculture students, in the 1951 wheat fertility test conducted by the Beloit chapter. The field where 1,000 pounds of ammonium nitrate was applied March 1, 1951, and not pastured, averaged 26 bushels an acre. On another field where 100 pounds ammonium nitrate was applied on the same date, and fall pastured from October 15 to January 1, yield was 18 bushels an acre. On the 3rd field checked where no treatment was applied and ground was fall pastured from October 15 to January 1, yield per acre was 13.5.

Beloit Future Farmers harvested 365 bushels from the 15-acre plot they rent from the Mitchell County Fair Board. Boys stored their wheat at harvest time and sold it in November for \$2.33 per bushel.

Many FFA chapters over Kansas are participating in a rat control program. Among them are members of the Eskridge chapter. Sponsored by the Eskridge Kiwanis Club, boys are competing with other chapters and clubs thruout a 12-state area in the program, which started January 15 and will close March 15. For each dollar spent on D-Con in killing rats, \$1.00 is saved in grain, feeds, and building repairs, their FFA reporter stated. In the United States, rats destroy annually as much food as is needed to feed 10 million people. Alvin E. Malley is vocational agriculture instructor.

In a pest eradication project conducted by Manhattan Future Farmers more than 20 coyotes were killed. In the contest, north team won with 16,800 points as compared with 16,200 points for south team. Losers furnished materials for the "pay-off" feed which included 12 gallons of chili.

Trees Washington Planted

By JAMES SENTER BRAZELTON

WASHINGTON, FIRST OF ALL A FARMER, is the title of an article by this writer which appeared in *Kansas Farmer* for February 21, 1948. In this story we pointed out that our country's first president was a progressive farmer, far in advance of most farmers of his day both in theory and practice.

It was stated in this article that more than 40 living trees still stand at Mount Vernon which were planted by Washington's own hands or under his supervision. It recently has been decided by horticultural experts, including Robert B. Fisher, horticulturist at Mount Vernon since 1946, that only 16 of the existing trees on the home grounds date back to Washington's time. These 16 trees consist of 2 white ash, 1 American elm, 1 hemlock, 4 American hollies, 2 honey locusts, 2 Kentucky coffee bean trees, 1 linden, 1 white mulberry and 2 poplars.

Because of his intense interest in his estate, Washington undoubtedly took a hand in the actual planting of some of these trees or at least stood by and supervised the work personally. He was as methodical about his tree planting

as he was in other things. In his farm book there was a plan of the grounds at Mount Vernon which he made himself. This plan was very carefully drawn and on it was the exact position and name of every tree that was to be planted. With the aid of this map authorities have been able to locate the trees Washington planted more than 150 years ago, and their present size would indicate they are that old.

Washington was a great lover of trees, as is shown by the diaries he kept in which are notes pertaining to trips into the Virginia forests to mark especially desirable trees for transplanting to the mansion grounds. It is thought some pecan trees at Mount Vernon may have been propagated from nuts known to have been given him by Thomas Jefferson.

After spending the best years of his life in the service of his country, he was glad to lay down all civic and patriotic burdens and return to Mount Vernon as a farmer. In 1788 he wrote to a friend, "How much more delightful is the task of making improvements on the earth than all the vain glory that can be acquired from ravishing it."

Write for free booklet showing details of the Hanson BRODJET principle of spray application.

Farmers with The HANSON BRODJET are using the last word in sprayers. The HANSON BRODJET sprays up to a 44 foot swath in small grain, row crops or pastures or a side swath for fence rows and roadsides. Removed from the support it will spray cattle, orchards or clean poultry houses, dairy barns and machinery. Simple, practical, non-clogging and low in price. The HANSON BRODJET can replace your present boom or can be purchased with high or low pressure power take-off pump kits.

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Read the Ads in This Issue

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

GUARANTEED ACCURACY In Applying Fertilizer



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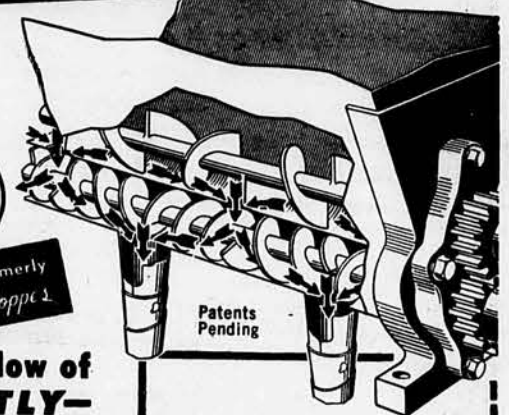
NOW! Meter the Flow of Fertilizer EXACTLY—

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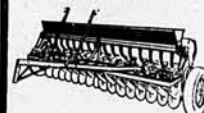
Investigate how the Ottawa Chief works and you'll settle for nothing less. Notice (in diagram) there are two, not one, positive feed augers. The lower opposing auger makes the big difference. It controls the distribution because it precisely, automatically measures and forces pulverized fertilizer equally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

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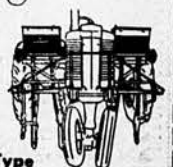
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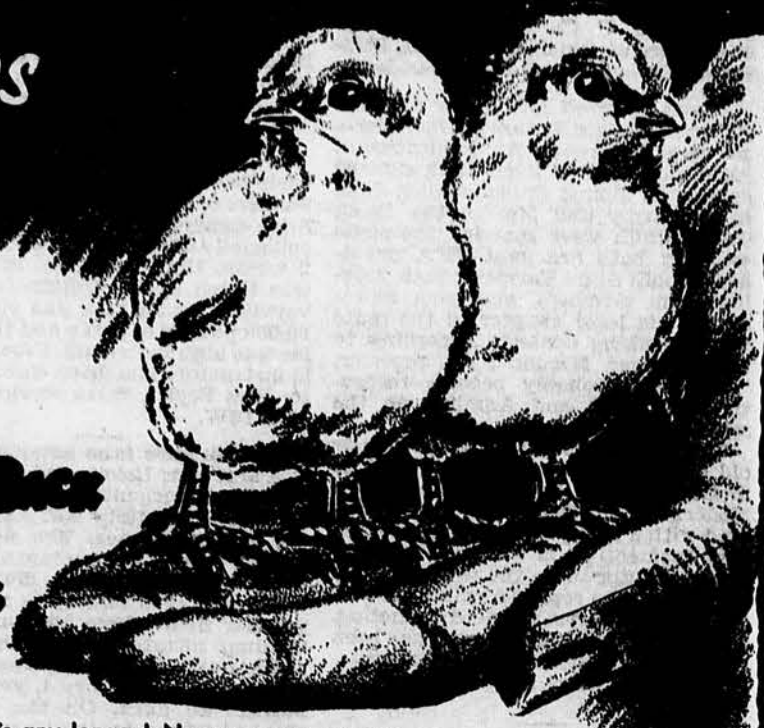
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FOR ANY ALBERS - FED
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HOW COCCIDIOSIS KILLS YOUR CHICKS

1. Coccidiosis protozoa are found nearly everywhere, ready to cause damage wherever conditions are right.

2. Chicks fed new Albers Chick Starter, containing Compound Anti-Cox, pick up the oocysts just like any other chick does... off litter, feeders, drinking fountains. But your Albers-fed chick is protected.

3. Coccidiosis attacks the untreated chick. It becomes sleepy, shows little or no interest in what goes on around it, and may die.

4. Untreated chicks suffering serious results from an attack seldom develop into profitable producers. They are often permanently injured, if they don't die. **YOUR INVESTMENT IS LOST!**

HOW ALBERS CONQUERS COCCIDIOSIS

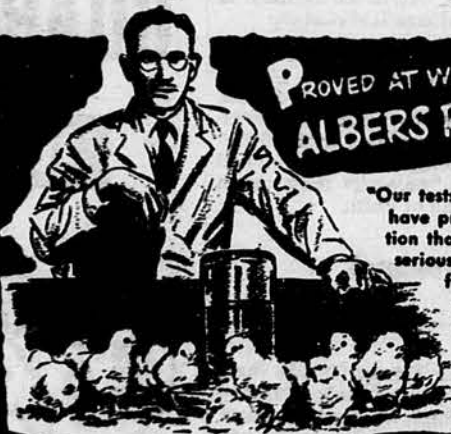
The Albers-fed chick resists the attack and is only mildly affected. It builds up natural immunity and is retarded but little, if any, in its development.

Albers-fed chicks are protected, have a good chance to develop and lay without set-backs.

YOU need not fear coccidiosis any longer! Now you can prevent this dreaded, costly chick-killer by feeding the new Albers Chick Starter, containing miraculous Compound "Anti-Cox". Albers will pay you *double the purchase price* of each and every one of your Albers-fed chicks killed by coccidiosis during their first eight weeks. This means you need no longer suffer serious financial loss due to this deadly disease, which kills upward of 20,000,000 chickens every year.

This new Albers Chick Starter also contains high-potency levels of thoroughly tested trace minerals, and a wonderful antibiotic combination which includes both terramycin and the recently perfected diamine penicillin. In fact, all 21 ingredients in Albers 1952 Chick Starter had to prove their value in 60 separate brooding trials at Albers Research Station during 1951.

When you buy Albers Chick Starter this year, you can rest assured it is the safest, finest, most up-to-date chick feed that over 50 years of Albers know-how can produce. You try it...you be the judge. We're sure you'll never be satisfied until you have seen what this quality feed can do.



PROVED AT WORLD FAMOUS ALBERS RESEARCH STATION

"Our tests at Albers Research Station have proved to our complete satisfaction that Compound Anti-Cox prevents serious outbreaks of coccidiosis, and, furthermore, permits chicks to develop immunity against future attacks."

Dr. E. M. Gildow
Director,
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JACK JACKSON...

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SAYS:

Folks, here's a chick-time check list of some important things to look after right now, in case you've forgotten:

1. Allow ample brooder space—at least 1 sq. foot of floor space for each 2 chicks.
2. Provide good ventilation without drafts. Cover openings with muslin.
3. Use clean, dry litter, 2 or 3 inches deep.
4. Keep feeders and water fountains filled at all times.

...and don't take unnecessary chances... feed new Albers Chick Starter, containing Compound Anti-Cox.

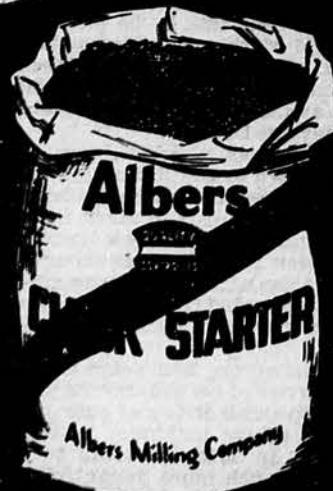
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Albers Milling Co. guarantees to pay the owner **DOUBLE THE PURCHASE PRICE** of each chick killed by coccidiosis during the chick's first 8 weeks of life. **YOUR CHECK WILL BE MAILED PROMPTLY** upon completion of the following conditions:

1. Chicks must be fed **EXCLUSIVELY** during the first 8 weeks on Albers Chick Starter, containing Compound Anti-Cox, in complete accordance with directions printed on each analysis tag.
2. Should any death loss occur, which your veterinarian definitely establishes as caused by coccidiosis, notify Albers Milling Company immediately stating: (a) number of chicks on Albers Chick Starter (b) how many coccidiosis deaths to date.
3. Albers will send you a claim form by return mail. Fill it out completely and return to Albers Milling Company, Kansas City, Mo., accompanied by (a) paid receipt for chicks (b) paid receipt for your Albers Feed (c) Sworn Statement from your veterinarian that primary cause of death was coccidiosis, as determined by thorough post mortem examination.

(NOTE: On unusual claims, Albers Milling Co. reserves the right to have dead chicks shipped to an independent laboratory for analysis.)



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Article No. 2

We Are Seeing America West and Southwest

By FRANCES R. WILLIAMS

RANCHING described in article No. 1 (February 2, 1952, *Kansas Farmer*) failed to tell the whole story of California's agriculture. Two thirds of all farm lands of the state lie in the flat 50,000 square miles of the great central valley. This valley, one of the most fertile regions on earth, extends south from Redding 425 miles, with an average width of 50 miles, lying between the Sierra Nevada and Coastal mountain ranges. Two rivers and their tributaries drain the valley. From the north the Sacramento, and from the south, the San Joaquin come together in a rich delta region and flow into San Francisco Bay.

The city of Sacramento is located in about the valley's center. Established as Sutter's Fort in 1839, Sacramento became a city with discovery of gold in 1848, and was chosen temporary capital in 1852. Two years later it became permanent capital. It was the western terminus of the Pony Express venture in 1860-61. One of many attractions of the city is Capitol Park, which contains more than 1,000 varieties of trees and shrubs. Rare trees from all over the world may be seen. These include Guadalupe cypress, Cedars of Lebanon, Australian bunya-bunya, and the camphor tree. Sacramento is home of the state fair, one of the most outstanding expositions in the country. Held the first 10 days of September, the state fair features a style show for ranch women.

Worth More Than Gold

Annual value of farm products of the state exceed the value of all the gold produced since the discovery. It was during our trip into the Gold Country we saw a small portion of the golden harvest of peach, pear and apple orchards. California is able to produce almost any crop, if there is sufficient water. No rain falls during summer; hills become brown and forest regions and brushlands become very dry.

The rainy season usually begins in November and lasts until in January. Irrigation has been carried on from deep wells, and in later years by dams, reservoirs and canals. Because of a cycle of dry winters, the state has been desperately short of water for her cities, for generating electric power and for the irrigation of the orchards, vineyards and fields.

Shasta dam constructed across the Sacramento river a few miles north of Redding is the world's second largest dam. The upper third of the central valley receives two thirds of the annual rainfall and an intricate system of canals is planned to distribute some of the water to the lower valley.

The northern central valley produces peaches, plums, prunes, apricots and grapes. Sacramento is the center of the world's largest asparagus industry. Chico is heart of the rice, wheat and walnut growing regions; Merced, farther south, is center of dairying, livestock, poultry and produces hay, barley, rice and berries.

It's Prune Center

San Jose, oldest incorporated city in the state, is located in Santa Clara valley, which is said to produce one third of the world's prunes. A drive thru the valley in March, when prune orchards are in bloom and extend as far as the eye can see, is an unforgettable sight.

It is a common sight to see huge trailer trucks on highways, piled high with boxes, crates and lugs of fruit, grapes, figs and tomatoes, hauling to processing plants and canneries.

The southern part of the valley, which lies between Los Angeles and San Francisco, is usually referred to as San Joaquin valley. Friant dam, astride the San Joaquin river located 20 miles east of Madera and rated as the fifth largest dam, has converted 3 million acres of semidesert land into productive areas. With more water 2 million more acres could be put into production.

One may see land that has been abandoned because water level in the wells failed and no other water could be had. Patches of alkali lay like frost on the ground. Dead trees and dry grass marked the spot that had been a productive field. Crops produced in the lower valleys are cotton, rice, potatoes,

wheat, flax, sugar beets, fruits of all kinds, figs, dates and nuts.

The Imperial Valley

Imperial valley bordering on Mexico is 40 miles long and 38 miles wide. Efforts of early settlers to reclaim the desert met with indifferent success, until completion of the Hoover, Parker and Imperial dams which regulate the flow of the turbulent Colorado river and store floodwaters for use in the irrigation of the Imperial valley.

Since opening of the All-American canal, which brings water into an area where annual rainfall is from 1/2 to 3 inches, the valley produces millions of dollars worth of crops. Irrigation had heretofore depended on deep wells. Most of the valley lies from 80 to 240 feet below sea level. The All-American canal, which is 150 feet wide, carries a stream of water 10 feet deep, and is a wonderful sight as it flows for 100 miles thru the desert to bring life to a thirsty land. In 1948, half a million acres were under irrigation in the 5,000 ranches which average about 100 acres. Since that time 200,000 more acres have been added with opening of Coachella canal, an extension of the American canal in the upper valley near Indio.

First step in preparing the land for irrigation is the leveling process. This costs from \$50 to \$250 per acre. Many ranchers are releveling their fields to take advantage of every drop of water on land that had been leveled in former years with mule team and scraper.

An endless variety of crops are raised. Flax has become the third most important, with lettuce ranking first and cattle second. Alfalfa, which produces an average of 7 cuttings per year, has an important place in the rotation program with small grains, flax and vegetables. Because of extensive cropping, application of great amounts of commercial fertilizers is essential. It is a practice to plant a legume called wild hemp, then plow under the rank growth in a few weeks for green manure.

Lettuce in Winter

The winter visitor will see lettuce and carrot crops being loaded onto big trucks in the fields with elevators similar to those used by the Corn Belt farmer to elevate the corn into the crib. The trucks piled high with lettuce and carrots speed along the highway to the packing sheds where they are processed, crated and shipped all over the country. Vegetable crops require large numbers of "stoop" laborers, which are usually Mexicans.

Summertime heat of 117 degrees is the usual temperature, and one rancher declared he had seen the thermometer reach 127. Despite great summer heat, there is frost danger in winter. Tender vine crops, such as cantaloupe, Persian and Cranshaw melons, grown extensively in the valley, are protected by paper windbreaks fastened to dried reeds taken from irrigation ditches. Due to experiments in breeding, cattle feeding is on the increase. By crossing the Brahman, a native of India, with domestic breeds, a breed of cattle has been developed which stands the extreme summer heat without loss of flesh.

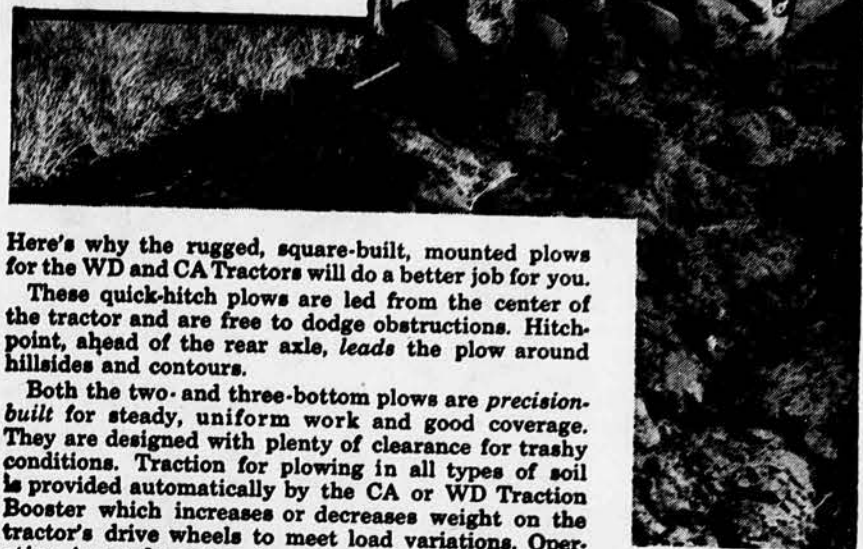
We have never tackled the Imperial Valley in summer, but a winter trip thru the area is an interesting experience. We have followed highway 99 almost its entire length across U. S. from the Canadian to the Mexican border. South of Los Angeles the route passes thru the orange orchards of San Bernardino county, the largest vineyard in the world, desert and desolate country. Indio is the center of the date industry. The Indio Date Festival in mid-February attracts many visitors.

South of Indio, the route follows the shore of the Salton sea, which has an elevation of 250 feet below sea level. The sea, 30 miles long and 14 miles wide, is the remnant of a prehistoric lake which once covered the entire valley, millions of years ago.

In El Centro, a sign "Barbara Worth" hotel, brought to mind that the scene of Harold Bell Wright's novel was laid in Imperial valley and dramatized the struggle of the early ranchers in their fight against the desert.

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Free-Swing Hitch saves Power



Here's why the rugged, square-built, mounted plows for the WD and CA Tractors will do a better job for you.

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Both the two- and three-bottom plows are precision-built for steady, uniform work and good coverage. They are designed with plenty of clearance for trashy conditions. Traction for plowing in all types of soil is provided automatically by the CA or WD Traction Booster which increases or decreases weight on the tractor's drive wheels to meet load variations. Operation is made easier, because engine power spaces rear wheels to match plow width. Straight, clean furrows...and a saving of power and fuel are the results.

Ask your Allis-Chalmers dealer to demonstrate these superior plows on your own farm.

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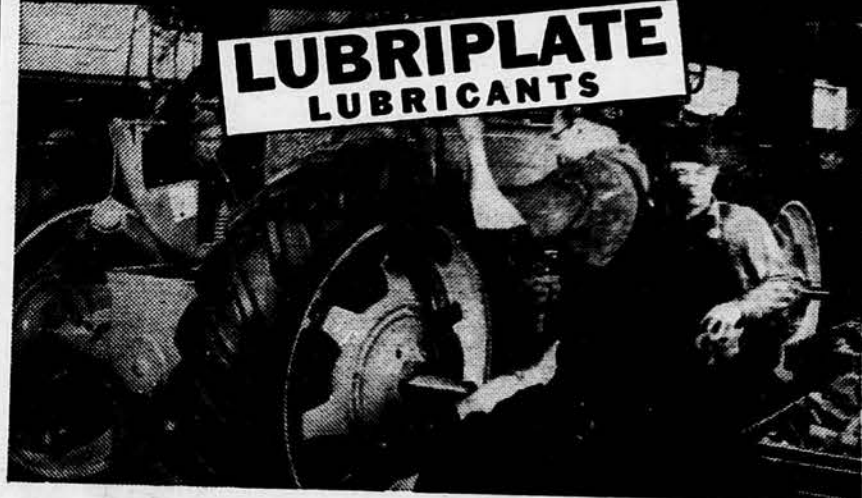
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There's no doubt about it, farm machinery and machine parts are going to be harder and harder to get. Because of material shortages—especially steel—there will be \$300,000,000 less in farm machinery and parts produced in 1952 than were made in 1951. In spite of this shortage, farmers are expected to harvest bigger crops with fewer hands.

It's up to you to get the most out of your machinery, avoid buying parts as

much as possible, and cut down waste machinery time for repairs. One of the best ways to do this is to use lubricants that reduce progressive wear and prevent rust and corrosion. That means LUBRIPLATE Lubricants. There are no other lubricants like them—nothing else as effective and economical.

LUBRIPLATE Lubricants save in three ways. You use less of them because they "stay put" and do not wash away. They positively prevent rusting of parts even during out-of-doors lay up. LUBRIPLATE Lubricants are so effective that they cut down parts replacement to an unbelievable degree.

If your dealer does not stock LUBRIPLATE Lubricants, phone, wire or write:

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Dairyman Louis Geronime's L-shaped all-steel Quonset 32 has proved such a successful year-round labor-saver that he claims it has cut his former work load in half. As a result, he is now doubling his herd, and expects soon to double his income from the increased production.

"Here in Rosemount, Minnesota," says Mr. Geronime, "the weather varies from 30° below in the winter to 95° in the summer. Regardless of the temperature, our herd is always comfortable. Increased milk production is the direct result of our Quonset loafing barn."

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No. 4 in flower series written by a man
who grows them by the acre

Perennials From Roots

By FRANK PAYNE

THIS article is about various hardy perennials with roots or divisions which you plant outdoors and leave right there in the same place, some for many years. Others will multiply so rapidly you will have to dig them up every few years and replant in a new place. You will have so many plants you can give a lot of them to your friends and neighbors. In other words, "you can have your cake and eat it too!"

The reason I recommend growing this list of perennials from roots instead of seed is that it sometimes takes years to grow them from seed before they come into blooming, while most of the roots or divisions will bloom the same year. The only exception is peonies. They take the longest time to get well established and to produce full-size blooms.

HARDY CHRYSANTHEMUMS bloom within 3 or 4 months after dividing and replanting if you use early-flowering types. Divide clump and replant anytime during May. You can have nice bloom from last of August until a killing freeze. Must be planted right out in a sunny spot and must be replanted at least every 2 years in different place for best results. They like rich soil but cannot stand a wet, soggy place. They like a slightly acid soil, so keep lime away from them.

PHYSOSTEGIA is an old-time flower. Most of you know it better by its common name, False Dragon Head. Divided in May, planted anywhere, it brings lovely cut flowers in August or September. May need watering to get best blooms in a hot, dry spell. Comes in 3 colors, white and light or dark pink.

HARDY PHLOX can be planted either in fall or early spring. It is quite hardy. Keep old blooms cut off so they do not go to seed, and they will give you a much longer season of bloom.

HARDY AGERATUM or Blue Mist Flower (Latin name is Eupatorium Colestrum) fills the bill for a blue flower when most blue flowers are scarce. We grow lots of it for cut flowers because our florist customers use it as a filler, especially with yellow and bronze pompon cut dahlias or chrysanthemums, and it certainly looks nice. The tiny blooms are so dainty and keep well when cut. You can plant in the shade or open sunshine. It does not come up until late spring, about middle of May, but is quite hardy and increases very rapidly. Needs watering in extreme drouths.

Iris is so important it would take a large book to cover all the types and varieties, so I can only touch on a few points in this short paragraph. It is the national flower of France. The French call it "Fleur-de-lis."

We Call Them Flags

Great-grandmother's common name for Iris was "FLAGS" and to this very day that is the only name many folks call them. Iris was no doubt brought into Kansas and Missouri by the pioneers of covered wagon fame, along with some other flower plants, simply because Iris are extremely hardy. It is one flower that can be dug up and moved about 11 months of a year with no damage. It's the only perennial I know that can be moved when in bloom and will still grow nicely.

Correct name for its fleshy roots is "rhizomes" and they should never be planted too deeply. About 2 or 3 inches is plenty. There are many different types, German, Siberian, Beardless, Japanese and Dutch. Japanese do best in wet ground. All others must be in a well-drained place. Dutch are from bulbs and millions are forced in greenhouses for early spring blooms for florist trade. In the most common German varieties you can have them in all colors and shades, and in dwarf, medium and tall blooms.

There are thousands of varieties—most all are pretty—it's all a matter of what colors you like best. Plant Iris along a walk, driveway, fence or in beds. They will do real well for you any place.

TRITOMA comes from the lily family and has many common names, such as Torch Lily, Flame Flower, Devil's Poker, but is best known as "Red Hot

Poker." It is only partly hardy and requires some mulching with straw or leaves in late fall. Must be planted only in the early spring. The variety "Pitzi" blooms all summer and fall. I never had much luck growing them from seeds but I do recommend using divisions and I grow several thousand each year as they make lovely cut flowers that last a week in the house. They are a beautiful autumn orange color. Hybrids come in yellow.

LILY OF THE VALLEY must be planted in shade on north or east side of buildings. It should be planted in fall only, taking it up in small chunks rather than single plants. Correct name of a single plant is "PIPS" and millions of these tiny pips are kept in cold storage, then placed in the greenhouse every 21 days all year long to grow blooms for the florist to use in making up bouquets for brides.

The flowers are very dainty, pure white with a strong, sweet fragrance. Very easily grown, too, but must be thinned out every 3 or 4 years or they will get too crowded.

HARDY ASTERS. If you want fall flowers plant some of these in the spring, away in the background, as some grow quite tall when cultivated. In Kansas and Missouri these often grow wild in fence rows where not plowed up. If you find a nice colored one, mark the spot and dig plant up next spring. You can make divisions of a large plant. They are mostly in the shades of blue, lavender and pinks.

LIATRIS PYCNOSTACHYA is better known as Kansas Gay Feather or Blazing Star. It grows about 5 feet tall with a beautiful purple spike about 2 feet long. Flowers open from top downward which is quite different than most spike flowers. Makes wonderful cut flowers that last a long time when cut and put in a large vase or basket or as a filler with large long-stemmed Gladiolus.

Root looks like an ugly turnip. It can be divided by splitting the large root into several pieces with a hatchet so there is a sprout on each piece and plant in the fall. They also grow wild in this section, but may be only a foot or so tall. When cultivated they grow as high as 5 feet or more. Will do well on poor ground and a dry spot, never in a wet or soggy ground.

Very Important Flower

PEONIES. The common name is "Pineys." I left this most important perennial until last. It so happens last fall I wrote an entire article on the peony which you may have read or can look it up if you still have the paper. So, I will just cover a little of the most important information.

Peonies must be fall-planted only, September to December in this section. If moved or disturbed in spring when they are in growing condition, failure is almost certain. They always should be divided when replanted and you can do this every 7 to 10 years. The eyes should only be 2 inches under the surface of the soil so don't make the mistake of planting too deeply.

Never put any animal manure over them, it will surely cause a rot or disease. Never cut blooms from a plant until it is at least 3 years old after it's planted, and don't cut with too-long a stem either. Some varieties, especially red kinds, seem to be weakest and may not bloom for several years. Pinks and whites are much more sturdy than reds and grow and develop much faster. Peonies never freeze out, they were found in Siberia where it gets 40 to 60 degrees below zero, so they just don't mind cold. However they cannot stand wet, soggy ground so plant next fall in a well-drained spot. Bloom in May and in time for Decoration Day most everywhere in Kansas and Missouri.

(My next article is on Tuberous Begonias.)

Helpful Service

Entertainment Editor: I have received the order from your department and enjoyed it very much. Thanks so much to Kansas Farmer for giving the public this practical service.—Marie K. Rodich, Crawford Co.

PURINA

CHECKERBOARD NEWS



Around the
PURINA
FARM with
ELMER POWELL
DIRECTOR RESEARCH DEPT.

Daughter Goes to College, Dad Heads for Hen House

GRAY SUMMIT, MO.—A picture story is mighty hard to beat. That's why this month I'd like to show you the growth of one of our Grade Holstein heifers.

She's a little heavier than the average at the Farm, but her record is a good indication of what good management and good feeding can do.



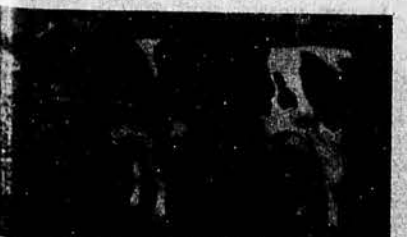
Calf No. 1173 weighed 112 lbs. at birth, 390 lbs. at 4 months—fully 140 lbs. more than U. S. average Holstein heifers of the same age.



We breed by weight at the farm. When she was only 13 months old, this fine young heifer weighed 750 lbs. and was ready for breeding.



When she calved at 23 months, "1173" weighed 1,285 lbs. and, like most Purina Farm heifers, was bigger than average Holsteins at 28 to 30 mos.



In her first lactation, "1173" produced 443.33 lbs. butterfat and 12,635.6 lbs. of milk. Except for labor, this repaid her full growing cost.

HIGHLAND, KANSAS. Paul H. Guthrie, a farmer living near here, made a name for himself as a pork producer. His daughter turned her back on dad's hogs preferring poultry as her 4-H project. Tolerant Guthrie gave her the green light, but stayed clear of the hens.

"Sister's" hens did well year after year. Then one day Paul awoke to find friend daughter readying herself for college. This would never do. Who would feed the chickens? And who'd gather eggs?

The women ganged up on Paul. He was nominated and elected. He stormed all over the house fretting about messing with a lot of fluff and feathers. Then sadly, reluctantly he picked up the egg basket and trudged out to the hen house. Within a few minutes, he had flown back into the kitchen for another basket. Too many eggs for the one he had taken with him. Paul Guthrie was fast learning the possibilities of egg production.

When Paul found it took 15 minutes morning and night to feed the hens, he began to get interested in expanding the flock.

Now Mr. and Mrs. Guthrie make a business of producing eggs. They keep from 500-700 New Hampshire layers. Good

chicks are started each spring. To date, they've never lost over 2%—mighty satisfactory, they think. At 7 weeks, weather permitting, the pullets are put out on range. And the biddies show their appreciation for the Guthrie management by laying early and heavy. "The eggs are small for the first few weeks," says Guthrie, "however, by the middle of September they're in high gear." High production of about

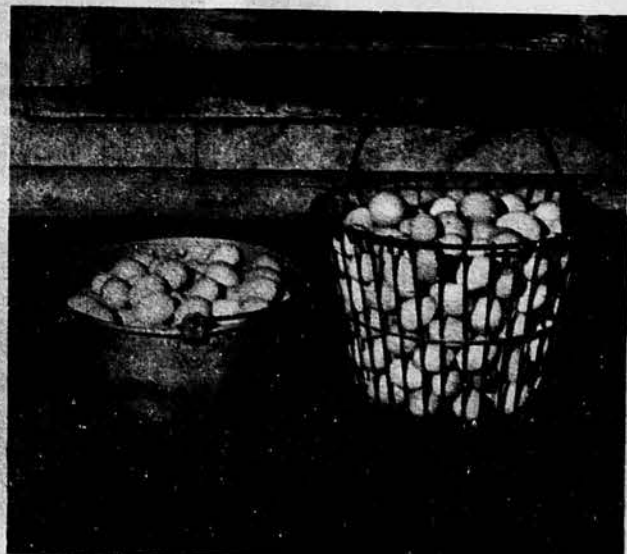
75% continues all winter long.

Because Guthrie has other duties, he uses built-up litter to save time. Likes it fine, too. The hens lay in community nests and Paul reports these are working out satisfactorily, also.

For the past 30 years, Guthrie has fed Purina Chows on his farm. Naturally, "his" poultry are also fed on the Purina Program.—Ed Traxler.



Bird dog puppies on point! Under expert Guthrie training they'll soon learn the difference between cat and quail.



Here's the sort of thing that got Guthrie interested in eggs. This is a fair sample of a noontime egg collection.

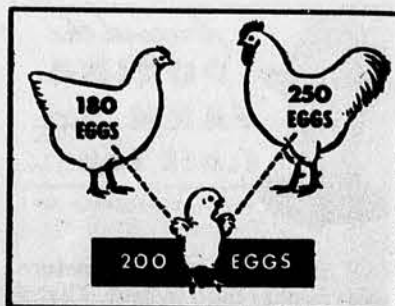
How many eggs do you want from Your Pullets Next Fall?



That is the first question you should ask yourself before placing your order for chicks. A good breeder today can sell you chicks with the bred-in ability to lay at least 20 eggs more than average birds. Outstanding strains are capable of laying 40 to 60 eggs more than average. It's just good business to buy chicks bred to lay extra eggs that will bring you 50c or more, when the extra cost per chick is only a few pennies.

Your own Purina dealer is a good man to rely on for well-bred chicks. He is quality minded. He stakes his reputation on the results of his customers. Why not talk it over with him before you buy?

The diagram in the next column shows you why Purina dealers are able to supply high-production chicks. The hens that supply their hatcheries are well-bred. Many lay over 200 eggs a year. But let's take 180 to be conservative. These hens are mated with cockerels from even higher-producing strains—say 250 eggs. Chicks from this mating will be able to lay more than their mothers. In this case the ability probably would run to 200 eggs or more.



Disease control in flocks and the hatchery also help your Purina dealer to supply healthy chicks that will live and grow.



FARROWING TIME TIPS to help You save more pigs

by GIL FRONIG, Mgr., Hog Unit, Purina Research Farm

We've raised more than 30,000 hogs at the Farm. From that experience comes these tips which are an important part of the Purina Hog Program

that helps you raise up to one-third more pork than does the average farmer. For details, see your friendly Purina dealer.



1. Sanitation is important. Clean and disinfect the pens in your farrowing house before the sow is put in. This pays off!



2. Scrub sow with a solution containing disinfectant. This prevents her carrying disease and parasites from pastures.



3. Be on hand when the sow farrows to take care of pigs as they arrive. You'll save a lot of pigs by being on the job.



4. Clip navel cord about an inch from the belly and disinfect. Kit to hold your tools and the disinfectant will be handy.



5. Clip needle teeth with a small pair of wire cutters to keep pigs from injuring sow's udder. Paint gums with tincture of iodine.



6. Weigh pigs and destroy those that weigh less than 1 1/2 lbs. Tiny ones are not worth keeping. They are not profitable.



HI THERE! I'M BEAUTENA

I'm staying at most of the Purina dealer stores listed in this Checkerboard News insert.

Right now I'm eating Purina Calf Startena, and if you come by to see me, I'll show you how Calf Startena helps develop big frames and makes big, rugged calves.

Just take a look at me and my record and you'll know Calf Startena grows calves bigger, better, and cheaper than milk, grain, or milking ration.

So please come in and see me soon. I'll be looking for you.

Beautena

CIRBOARD NEWS

When should
I start feeding
for eggs?



by JOHN HOFF,
Manager, Purina Poultry Chews

While accompanying a group of folks on a farm poultry tour last fall, I accidentally picked up a gem of information.

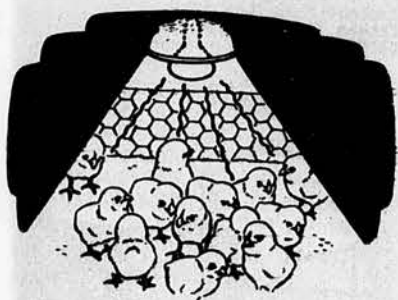
On the farm we were visiting there were 1,000 February 17, hatched, heavy-breed pullets. Our host pointed to his egg records which showed that September production had averaged approximately 75%. The day before (Oct. 1) he had gathered 834 eggs.

At this point a lady in the visiting group spoke up and said: "I'd like to know when you start feeding your birds for eggs? I've got about the same number of pullets you have. Mine were hatched early, too. I'm feeding the same brand of laying mash you feed, but I have not picked up as many as 400 eggs any day yet."

The answer given to this question by our host was the gem I refer to, when he said: "Lady, I start feeding for eggs the minute my chicks come from the incubator. Day by day, everything I do is planned to help these pullets lay. Their range, the way they are sheltered, their water, their feed, everything. It takes time, and it takes work, but here is the proof. Do you think it pays?"

This year I hope you can apply this man's formula. Remember, you don't start to get your pay until your pullets start to lay.

FARM HANDIES



USE HEAT LAMPS FOR CHICK BROODING

Some folks are finding heat lamp brooding easy and inexpensive. Chicks seem to like the lamps, too, for they can move in and out of the warm areas easily, and "cool room" brooding helps them grow and feather out fast.

Most Purina dealers have heat lamp displays in their stores and are now selling Sylvania heat lamps.

...but there's no payday for you until they start to lay

EVERY YEAR—right at the time poultry raisers should be starting chicks for fall layers eggs are always plentiful and cheap. It takes nerve to buy chicks and buck a market that appears to be falling apart.

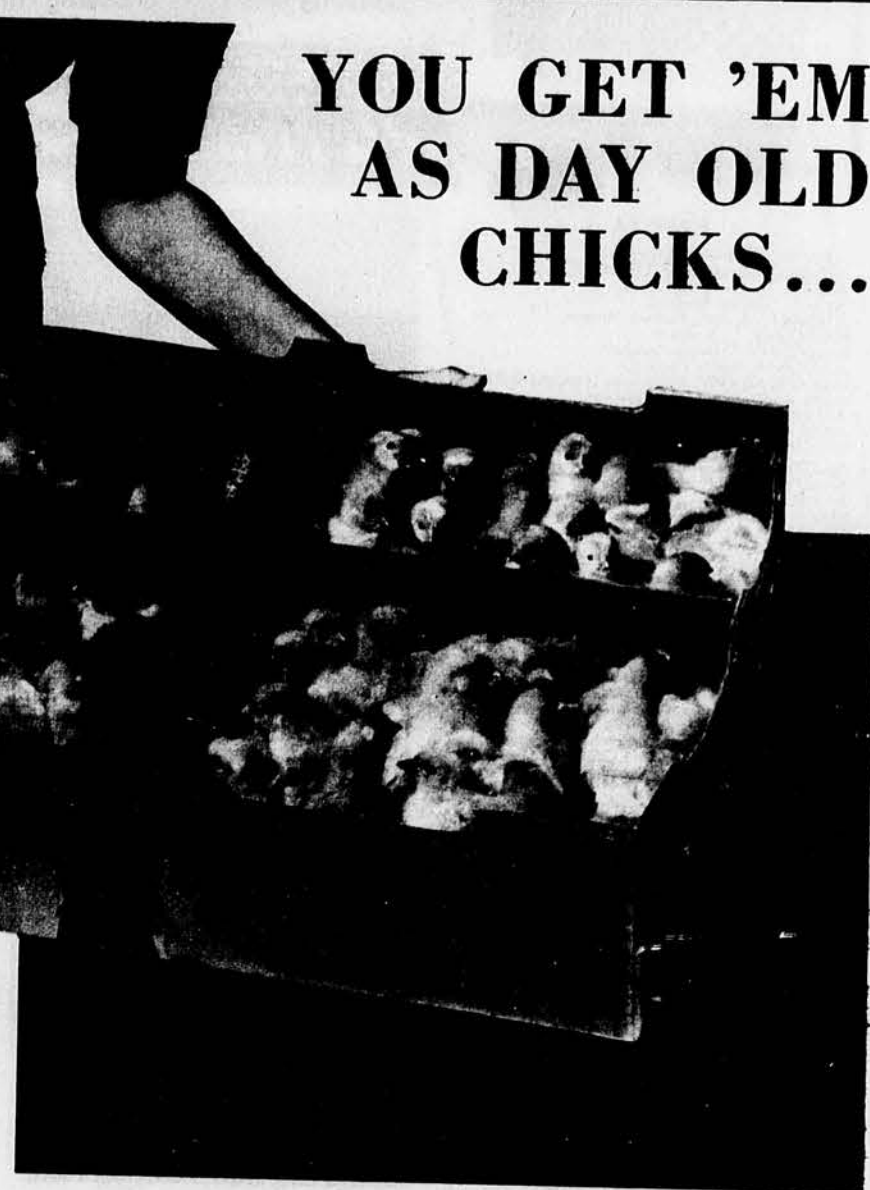
But, take a long look at the accompanying egg price chart. Remember, the chicks you buy will need 5 to 6 months to get ready. By mid-July the demand for quality fresh eggs will send prices zooming. That is exactly what the chart shows has happened each year in the past.

Eggs sold in September, October, November and December over the last 5 years have brought their producers an average of at least 10 cents per dozen more than eggs of similar quality produced in January, February, March and April.

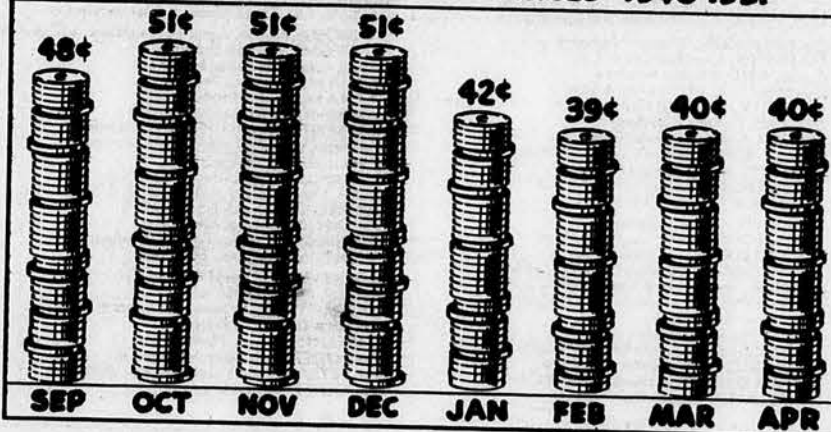
These are facts we can't afford to ignore. They simply mean any flock used for producing market eggs must lay well in the fall, or it can't be as profitable as other flocks that do.

Here are four steps in a program good poultrymen follow to get top profits from their flocks:

First: Make sure the chicks are bred for good egg performance.



U.S. AVERAGE FARM EGG PRICES 1946-1951

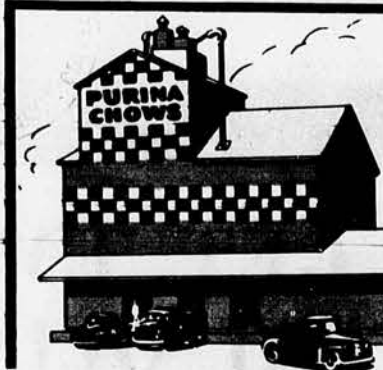


Second: Get chicks early. Well-bred, well-grown pullets should lay a few eggs by 5 months, but don't expect too many normal market eggs before the sixth month.

Third: Where possible pullets are given clean range and lots of room. Help your pullets develop as healthy, thrifty birds by giving them a comfortable place to sleep.

Fourth: Feed to help them make the most of their breeding. Folks who fed Purina Startena and Growing Chows with Formula 1028 were general in reporting the best pullets they had ever grown. Most prefer Checker-Ett form, but Mash is available also. Try this year to grow the best pullets you have ever grown. Grow them the Purina way with Formula 1028.

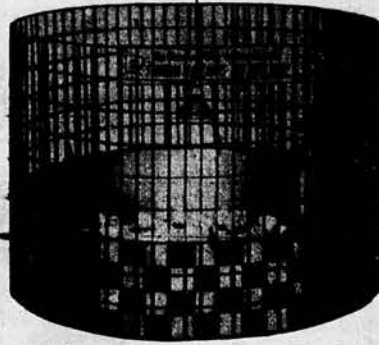




"NEW LIGHT" on Chick Brooding

Many Purina dealers listed here have a special chick brooding display in their stores to show you how easy and convenient new infra-red heat lamp brooding can be. Find your Purina dealer here and ask about his heat lamp display.

STOP at the Store with the Checkerboard Sign for Purina Chick Startena and Chick Sanitation Needs.



KANSAS

ABBEVILLE, Farmer's Elevator
ABILENE, Garden Mark Elevator Co.
ALDEN, Farmers Coop Assn.
ALMA, Schulte Produce
ANDALE, Andale Farmers Elevator
ANDOVER, S. Dack
ANTHONY, Therman Hatchery
ARGONIA, Baitin Grain Co.
ARKANSAS CITY, Arbuckle's Hatchery & Fd. Co.
ASHLAND, Wallingford Elevator
ATCHISON, Berry Bros. Hatchery
ATTICA, Imperial Flour Mills Co.
AUGUSTA, Furlong Hatchery & Feed
BALDWIN, Hardy's Hatchery
BALDWIN, Hunt Farm Supply
BAXTER SPRINGS, Gaines Feed Store
BELLE PLAINE, Halls Produce & Feed
BELLEVILLE, Hall Mill & Elevator
BELOIT, Jones Feed & Seed Co.
BLUE MOUND, Mulkey Products
BONNER SPRINGS, Bonner Feed & Fuel Co.
BURLINGTON, Solisby's Feed & Seed Store
BURNS, Burns Feed Store
BURRTON, Hensley Oil & Feeds
CANEY, Halligan Feed & Produce
CANTON, Canton Grain Co.
CARBONDALE, Surber Grain Co.
CEDARVALE, L. C. Adam Mercantile Co.
CHANUTE, Farm Service Store
CHANUTE, Floyd R. Potter
CHENEY, Ball Produce & Hatchery
CHERRYVALE, Cherryvale Grain Co.
CHETOPA, Kams Grain Products Co.
CLAY CENTER, Garden Mark Elevator
CLEARWATER, Hugh R. Wilk
CLYDE, Derousseau's Hatchery
COFFEYVILLE, C. C. Feeders Supply
COLBY, Thomas County Grain Exchange
COLDWATER, Wallingford Grain Corp.
COLUMBUS, Columbus Hatchery
COLUMBIA, Andale Farmers Elevator
CONWAY SPRINGS, Farmers Union Coop. Assn.
COTTONWOOD FALLS, Schoap Poultry & Egg Co.
COUNCIL GROVE, Scholes Feed Store
DELEVAN, Farmers Grain & Supply Co.
DENISON, Farmers Elevator
DEOTO, Goodrum Grain Co.
DODGE CITY, Caterline Grain & Seed, Inc.
DOWNEY, Dwight Feed Co.
EDGERTON, Edgerton Grain Co.
EDNA, Edna Produce
EL DORADO, The Home Grain Co., Inc.
ELK FALLS, O & B Oil Co.
ELKHART, Elkhart Coop. Equity Exchange
ELLIS, The Wheatland Elevator
EMPORIA, The Kansas Sava Products Co., Inc.
ESPON, Esbon Feed & Seed Co.
ESKRIDGE, Converse Farm Service Co.
EUREKA, C. T. Agrellius Feed Co.
FONTANA, Barnes Feed & Seed Store
FORD, Security Elevator Co.
FT. SCOTT, Chas. Leist Feed & Seed Co.
FT. SCOTT, National Coal, Ice & Fuel Co.
FREDONIA, Cox Produce & Grain Co.
GARDEN CITY, Western Terminal
GARDNER, Gardner Grain Co.
GARLAND, Pfeiffer Produce
GARNETT, A. H. Fawkes & Sons
GAS CITY, Goodsell Hatchery
GIRARD, Potter's Hatchery
GOODLAND, Terminal Grain Co.
GREAT BEND, Barton County Hatchery
GREELEY, Rommelfanger Produce
GREENSBURG, Security Elevator Co.
GRENOLA, Gwinup's Produce
HALSTED, Farmer's Elevator
HAMMOND, Bruce General-Mdse.
HARDTNER, Kansas Milling Co.
HARTFORD, The Kansas Sava Products Co., Inc.
HARPER, The Imperial Flour Mills Co.
HARVEYVILLE, Harveyville Grange Coop. Business Association
HAYS, Engel Hatchery
HAYSVILLE, Hayville Elev. & Supply Co.
HERINGTON, Wilkerson Grain Co.
HIWATHA, Wolf Feed & Grain Co.
HIGHLAND, Moore Farm Supply

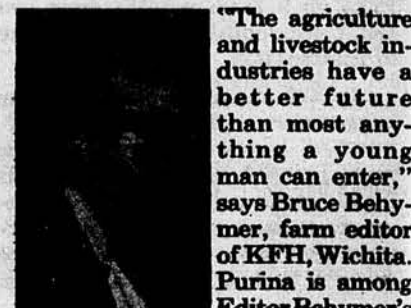


KENNETH SCHROPE of Highland, Kansas, supplements his corn for hogs with Purina Hog Chow bought from Derrick Farm Supply. As gilts, Kenneth's 8 crossbreds sent 64 hogs to market averaging 200 lbs. at 5 months 10 days. Last fall these same 8 sows weaned 76 pigs.

HILLSDALE, Fessenden Grain Co.
HOLTON, Farmers Union Coop. Assn.
HOPE, The Farmers Coop. Elev. & Sup. Co.
HUGOTON, Security Elevator Co.
HUMBOLDT, Farmers Produce
HUTCHINSON, Berry's Hatchery & Feed
HUTCHINSON, Orth's Feed & Seed Co.
HUTCHINSON, Salt City Hatchery
HUTCHINSON, Security Elevator Co. B.
INDEPENDENCE, Star Mill Co., Inc.
IOLA, Allen County Feed & Prod.
IONIA, Ionia Produce
JUNCTION CITY, Hart Bartlett Sturtevant Gr. Co.
KANSAS CITY, Crawford Hatcheries
KANSAS CITY, Dyer & Co.
KANSAS CITY, Kansas Avenue Merc. Co.
KANSAS CITY, Kellery Feed Store
KANSAS CITY, Midwest Hatchery
KANSAS CITY, State Ave. Merc. Farm Store
KANSAS CITY, Frank Wells Feed Store
KANSAS CITY, Precht's Feed & Seed, 740 Kansas Ave.
KANSAS CITY, KANS., Park Junction Feed Store, 1905 N. 5th St.
KENSINGTON, Levin Bros.
KINLAID, Dunlap Produce
KINGMAN, Goerner Hatchery
KIOWA, Ok. Coop. Grain & Mercantile Co.
LA CROSSE, Farmer's Union Coop. Merc. & Elev. Co.
LA CYGNE, Farmers Produce
LANE, Germs Breeder Hatchery
LATHAM, Morgan's Produce
LATHAM, Snyder Produce
LAWRENCE, Caldwell Hatchery
LAWRENCE, Douglas County Hatchery
LEAVENWORTH, Hibbs Farm Service
LEBO, Laba Grain Co., Inc.
LENEKA, Jennings Feed & Coal Co.
LEOTI, Herb J. Barr & Sons Grain & Supply Co.
LIBERAL, Security Elevator Co.
LOGAN, The Logan Grain Co.
LOUISBURG, Owens Feed & Produce
LYONS, W. S. Dayton Hatchery
MACKSVILLE, Kansas Milling Co.
MAIZE, Maize Mills, Inc.
MANHATTAN, Johnsons Feed & Seed
MANHATTAN, Levin Bros.
MARION, Seymour Packing Co.
MARQUETTE, Rodney Milling Co.
MAYETTA, Farmers Union Coop. Assn.
McLOUTH, McLoth Grain Co.

McPHERSON, Community Feed & Seed
McPHERSON, Hilltop Turkey Farm & Hatchery
MEDICINE LODGE, Kansas Milling Co.
MERIAM, Leland Wilson Hatchery
MICHIGAN VALLEY, Bulmer Grain Co.
MINNEAPOLIS, Golden Rule Hatchery
MINNEOLA, Minnesota Coop. Exchange
MONTEZUMA, Security Elevator Co.
MONUMENT, Wheatland Elevator
MORAN, Leslie Beasbrook Produce
MORSE, Morse Grain Co.
MOUND CITY, Ward Produce
MOUNDVILLE, Moundridge Coop. Elev. Assn.
MT. HOPE, Independent Produce
MULVANE, Moore Grain Co.
MUNCE, J. E. Puff
NEODESHA, Shacklett Hatchery & Feed
NEWTON, Berry's Feed & Supply Store
NICKERSON, Farmers Coop. Elevator Co.
NORTON, N. L. Johnson Grain Co.
NORWICH, Goerner Hatchery
OAKLEY, Wheatland Elevator
OBERLIN, Earl C. Wilson & Sons
OLATHE, Farmers Coop. Union
OSAGE CITY, Lafferty Grain & Produce Co.
OSAGE CITY, Steinhoff & Son
OSAWATOMIE, Osawatomie Feed & Produce Co.
OSBORNE, L. M. Newman
OSKALOOSA, Oskaloosa Feed Store
OSWEGO, Kams Grain Products Co.
OTTAWA, Ottawa Produce Co.
OVERLAND PARK, Jennings Feed & Coal
PAOLA, Washburn Hatchery
PARKER, Lockhart Station
PEABODY, Peabody Coop. Equity Exchange
PECK, Moore Grain, Inc.
PENALOSA, Kansas Milling Co.
PERRY, Heck & Seyler
PIQUA, Niemann's Store
PITTSBURG, The Potter Hatcheries
PLEASANTON, Pleasanton Mill & Elevator Co.
PORTS, Walter's Lumber Co.
PRATT, Pratt Equity Exchange
PRETTY PRAIRIE, Security Elev. Co.
PROTECTION, Park Hatchery
RICHMOND, Farmers Home Coop. Merc. Society
SABETHA, Sabetha Coop. Produce Co.
SAFFORDVILLE, North Grain Co.
ST. FRANCIS, Roylston & Son
ST. MARYS, Farmers Union Coop. Assn.

SALINA, McMinn & Tanner Feed & Produce
SCOTT CITY, Durrant Seed & Supply
SEDAN, Sedan Seed House
SEDCWICK, Behm-Sedgwick Hatchery
SEDCWICK, J. O. Coombs & Son
SEDCWICK, Sedgwick Alfalfa Mills
SEVERY, Arnold & Colyer
SHAWNEE, Shawnee Hatchery
SPRING HILL, Zweimiller Feed & Produce
STAFFORD, Stafford Hatchery
STANLEY, Boyd & Moezler
STERLING, Farmers Coop. Union
STILWELL, Stillwell Feed & Coal
STOCKTON, Bouchey Grain Co.
SUMMERFIELD, State Line Pig Factory
SYLVIA, Sylvia Coop. Assn.
THAYER, Potter's
TONGANOXIE, Trospers Feed Store
TOPEKA, Emery T. Shimer Feeds & Seeds
TOPEKA, J. R. Shimer
TRIBUNE, Tribune Grain Co.
TROY, Winzer Hdwe.
TURON, Turon Hatchery
VALLEY CENTER, Valley Center Farmers Elevator Co.
VALLEY FALLS, Reichart Elevator
VIRGIL, Virgil Feed & Coal
WAKEENEY, The Wheatland Elevator
WATERVILLE, Wagon Produce
WATHENA, Wathena Hatchery
WAVERLY, J. R. Baxter Produce
WELLINGTON, Newell's Feed Store
WELLSVILLE, Averill Produce
WHITE CITY, White City Grain Co.
WHITEWATER, Whitewater Hatchery
WICHITA, C. Ball Feed Co.
WICHITA, Hillside Feed & Seed Store
WICHITA, Berry's Hatchery & Feed Store
WICHITA, Great Plains Hatchery
WICHITA, Kallaga Brothers Feed & Seed
WICHITA, Maxwell Feed & Hatchery
WILLIAMSBURG, Williamsburg Produce
WILSON, F. S. Riegel
WINFIELD, Wallace Feed Store
WINONA, Wheatland Elevator
WOODBINE, Reed's Store
YATES CENTER, Yates Center Elevator Co.
ZARAH, Zarah Grain & Elev.
ZENDA, The Goerner Hatchery
ZENITH, The Zenith Cooperative Grain Co.



"The agriculture and livestock industries have a better future than most anything a young man can enter," says Bruce Behymer, farm editor of KFH, Wichita. Purina is among Editor Behymer's sponsors. Listen to Behymer at 12:45 to 1:00 p.m., Monday, Wednesday, Friday.

CALAMITY CAL...

... by ed smyth & bill sims



Farm and Home Week Brought Out These Points

AMERICAN agriculture still has 3 frontiers—frontiers of new populations, new tillable land, and new farming efficiency," Pres. James A. McCain, of Kansas State College, told visitors to Farm and Home Week, February 4 to 8, Manhattan. It was the first full-scale Farm and Home Week program at the College since early in World War II.

Clyde Mitchell, chairman of the economics department at Nebraska University, pointed out that if the U. S. is to provide social leadership for the world we must help backward countries obtain agrarian reform, "including land ownership, tenure improvement, co-operative development, credit at reasonable terms, and agricultural extension education. We must also help them with government reform, fiscal and currency stabilization, police and judiciary reform, education reform, and improve the status of women."

Those attending the Kansas Hybrids Association meeting learned that in 1951 corn performance tests the best commercial hybrid outyielded the best open-pollinated variety by 17 bushels an acre. They also learned that the best commercial hybrid, in 5 tests, outyielded the poorest commercial hybrid by 29 bushels an acre.

Dr. H. K. Hays, University of Minnesota, reported some progress is being made there in breeding corn plants that are resistant to first-crop corn borer larvae and tolerant to later corn-borer attacks.

Sweet Clover Weevils Bother

Bee colonies decreased by 1,000 in Kansas during 1951 at a time when the state is trying to increase its legume acreage, it was reported at the beekeepers meeting. Professor Roger C. Smith, Kansas State entomologist, also reported that sweet clover weevils have been found in 39 Kansas counties and probably now cover most of the state. Only control offered is to put new fields of clover more than one-half mile from old stands, or spray infested fields with 2 pounds of actual DDT an acre.

Some of the newest trends in farm poultry raising were listed by E. B. Winner, University of Missouri Extension poultry specialist, as larger farm flocks, deeper houses and bigger pens, dirt floors and built-up litter, more control over ventilation, insulated roof rather than strawloft, mechanized egg coolers or egg cellars, continuous confinement during laying season, and elimination of roosts and droppings pits to cut costs.

M. E. Jackson, Extension poultry specialist, said that Kansas has failed to follow thru on a good quality egg marketing program, but that where such programs have been tried locally buyers have proved they will buy 70 to 80 per cent more eggs where they can get quality at a fair price.

Cy Roth, McPherson poultry processor, said even small rural communities offer good outlets for dressed poultry

if it is prepared, packaged and distributed properly. Prof. L. F. Payne, head, department of poultry husbandry, reported that 75 per cent of all U. S. grocery stores now are selling cut-up poultry and that turkey broilers, fryers and junior roasters are becoming increasingly popular.

Dr. J. S. Hughes, professor of biochemistry, KSC, talking on poultry nutrition, recalled that the 1934 feed ration produced only a 2-lb. chicken in 10 weeks. The 1951 feed ration will produce a 3.10-lb. bird. Better breeding, of course, has helped.

Grassland farming, properly mechanized and managed, does not eliminate grain production but does increase productivity of land per acre, dairymen were told by C. B. Bender, director of research in grassland farming, The Sperry Corporation, N. Y. Use of grass silage and a hay crusher to shorten curing time of hay in the field were listed by Mr. Bender as the 2 best practices to insure high-quality roughage.

Must Milk More Cows

Dairymen were reminded by Karl B. Musser, secretary-treasurer of the American Guernsey Cattle Club, they must milk twice as many cows now as before the war to have the same buying power. He pointed out that the purebred dairy industry needs to adopt a set of ethics for public and private sale of purebred dairy cattle. Two thirds of all such cattle now being sold in some states are being sold without any such code, he said.

In Texas experiments bull calves of different sires, fed the same rations in feed lots from weaning age to 18 months, varied more than 1 pound in average daily gains, it was reported by Prof. J. K. Riggs, of Texas A. and M. College.

Dr. T. Donald Bell, of the KSC animal husbandry staff, reported there is some indication shutting ewes in a dark place for part of each day may increase their breeding efficiency. This idea is from observation that ewes do pick up in breeding efficiency as nights get longer.

L. E. Johnson, regional co-ordinator, beef cattle breeding research, USDA, Lincoln, Nebr., said that heritability factors appear to be higher in beef cattle than in other livestock. "We need to better define our breeding goals in cattle to get maximum results," he said.

Dr. Rufus F. Cox, head, department of animal husbandry at KSC, said that work in animal breeding has lagged far behind the work in crops and that "we know much more about feeds and animal nutrition than livestock breeding. We have done far too much evaluating of livestock on eye appeal, which can be very misleading," said Doctor Cox.

Farm and Home Week was closed with a very practical 2-day session on machinery adjustments, safe tractor operation, comparison of tractor fuels, a study of farm shop development, and demonstrations on welding.

They Elected Officers

VARIOUS groups elected the following officers during Farm and Home Week, Manhattan:

Kansas Hybrids Association—H. F. Roepke, Manhattan, president; Ralph Hockens, Arrington, vice-president; Carl Overly, Manhattan, secretary-manager. New directors elected are C. H. Merrifield, Athol; R. D. Meyer, Walnut, and Otto Rosenau, Eudora.

Kansas Milking Shorthorn Society—Walter Otte, Great Bend, president; Ezra Wolf, Quinter, vice-president, and C. O. Heidebrecht, Inman, secretary-treasurer.

Kansas Ayrshire Club—M. B. Dusenbury, Corbin, president; Reeves Lewis,

Furley, vice-president, Dwight E. Hull, El Dorado, secretary-treasurer.

Kansas Brown Swiss Cattle Breeders' Association—Paul O. Green, Topeka, president; James Hess, LaHarpe, vice-president; Earl Webber, Arlington, secretary-treasurer. Ross Zimmerman, Abbeyville, was elected director-at-large.

Holstein-Friesian Association of Kansas—Wilbur Sloan, Cleveland, president; Harold Scanlan, Abilene, vice-president, and T. Hobart McVay, Nickerson, secretary-treasurer. Jack Carlin, Smolan, was elected director-at-large.

Kansas Jersey Cattle Club—A. L. Miller, Partridge, president; John Weir, Jr., Gueda Springs, vice-president, and James Berry, Ottawa, secretary-treasurer.

Kansas Guernsey Breeders' Association—W. H. Bertholf, Wichita, president; Roy Neher, Oswego, vice-president, and C. J. Graber, Newton, secretary-treasurer.

Kansas Crop Improvement Association—C. C. Cunningham, El Dorado, president; J. E. Sowder, Toronto, vice-president, and L. L. Compton, Manhattan, secretary. New board members are George Fuhrman, Atchison, and Edward Oborny, Bison.

U-Kitchen Plans

Maximum convenience for the homemaker at her work is the aim of the step-saving kitchen, planned primarily for the farm home. The instructions are simple and well illustrated. For a copy of this USDA bulletin, please address Home Editor, Kansas Farmer, Topeka. Price 5c.

WHY PUMP AND CARRY?

LOSING MONEY—The hours you spend carrying water should be spent doing other farm work. The pump-and-carry method is a hard, back-breaking, time-wasting chore that never gives you enough water for your stock. If you do not have running water, then you're losing money that could be yours, because a Dempster Water System pays for itself with more eggs, heavier hogs and cattle.

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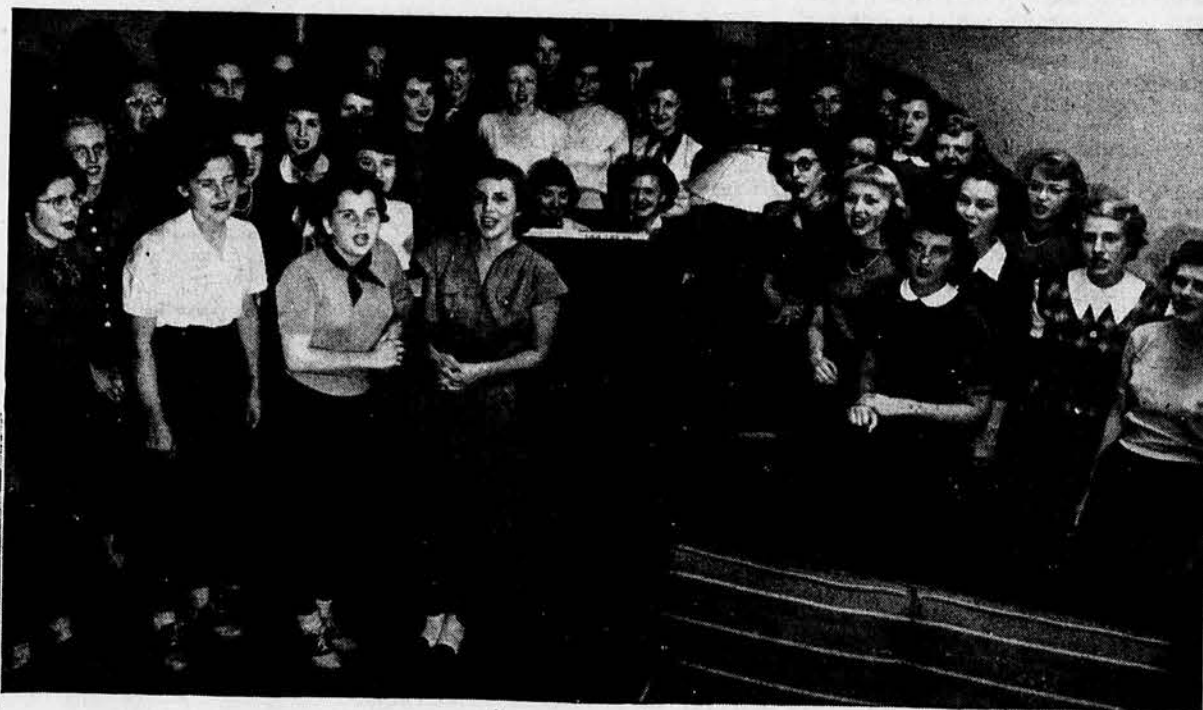
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Kansas Farm Home and Family

FLORENCE McKINNEY, Editor

GATHERED ROUND GRAND PIANO in Northwest Hall, K-State's new dormitory, these freshman women sing together.



OFF TO CLASSES are 3 coeds as they leave Northwest Hall. Beginning left, Mary Joan (Jody) Woodward, Hutchinson; Vivian Warnken, Hutchinson; Susan Sears, Topeka.

IT'S HOME

to K-State Freshman Girls.

By Marillyn Weisbender

GIRLS scurrying to and fro, happy chatter and laughter, a friendly greeting as you enter. These things impress you as you enter Kansas State College's new women's residence, Northwest Hall. Now for the first time, most freshman girls are living together. And thanks for this go to the women of the state.

Northwest Hall was a part of the better housing program instigated by the Kansas Council of Women, thru its member organizations. Money was appropriated by the Kansas legislature as a direct result of efforts of home demonstration units, member organizations of the

Kansas Council of Women. It was largely thru their hard work Northwest Hall came to be.

Finished last summer and located on the northwest corner of the campus, it now is occupied by more than 200 freshman girls and their junior and senior counselors.

A trip to the basement of the new building shows a laundry room, trunk room, recreation room and an attractive dining room complete with blue-bordered dishes.

The kitchen also is in the basement. Here, you see Catherine Turner, dietitian at the dormitory, busy at work. Two kitchen workers are preparing vegetables. Other helpers are at another table making a tempting gelatin salad. One of the 3 cooks employed at the hall is peering into the oven to check on roasts.

Vegetables delivered in the kitchen go directly to the vegetable unit where they are cleaned and cooked. Nearby are units for salads, cooking, dishwashing and baking. "We bake as much of our bread and pastry as possible," says Miss Turner.

Lunch and breakfast are served cafeteria-style; dinner in family-style in the dining room. Meals are prepared with an eye on thrift as well as good nutrition, according to both Miss Turner and Mrs. Bessie Brooks West, head of the department of institutional management.

Twenty-four of the girls volunteered to be waitresses and are paid for their work. Other girls work on the desk, answer the telephone and sort mail.

Mrs. O. T. Atherton, of Emporia, is Northwest's director. She has replaced Dorothy Hammer, assistant dean of women, who became ill during Thanksgiving vacation.

On the first floor you see Mrs. Atherton's and Miss Turner's suites, the offices, 2 wings of girls' rooms and large [Continued on Page 27]



RECORDS AND CHATTER occupy attention of 3 freshmen at new dormitory. Beginning left, Sidney Hepler, San Francisco; Becky Thatcher and Jeannie Hunter, Topeka.

living room. The latter is decorated in soft colors and has strictly modern furniture. A huge fireplace fronted by a long curving couch is featured at one end.

An elevator ride to second floor and we see each girl's room is attractive in decorator colors with matching or harmonizing spread and curtains and new blonde furniture. Sheets, draperies and spreads are furnished and sheets are laundered for the girls.

Each upstairs floor has a social room where everyone congregates. On the second floor it is decorated in bright red and green and furnished with bamboo furniture... but you hardly notice that. There's Laura Speer, from Clearwater, bringing a can of popcorn and Susan Sears, from Topeka, right behind her with the box of cocoa. They head for the tiny kitchen just off the social room. The hot plate, sink and cabinets there have seen many cookery experiments and snack snatchers in their day. "And," says Laura, between mouthfuls of popcorn, "we have the promise of a refrigerator."

Plenty of Laundry Room

On each upstairs floor is a laundry room complete with steam dryer, also phone booths and luggage closet. An intercommunications system in effect between rooms and the downstairs desk makes it easier to call girls and deliver messages between rooms.

"To let the girls learn thru their experiences the give-and-take of group living is the main purpose of having such a dormitory," according to Helen Moore, dean of women at Kansas State. Dean Moore said also the general enrollment dropped last September, number of freshman girls increased. She believes Northwest Hall with its opportunity for democratic living played a great part in bringing more girls to the college.

"The guidance program is, of course, still an experiment now. On the whole, however, it has gone well," she said. "We are giving these freshman girls a continuous orientation to college life."

Every phase of college life is considered in the program. On week nights, coeds are in their rooms studying from 8 to 10. From 10 in the forenoon until 3 in the afternoon are quiet hours, too, but the girls don't have to be in their rooms. Study sessions directed by faculty members help students having trouble in certain subjects.

One night each week is activity night.

Then the freshman girl can go to a meeting of some campus organization or church group in which she is interested. She must be back by 10 p. m.

Recreation is included in the program. Hour dances with men's organizations are held and on week ends girls may have dates. They must be in by 1 a. m. on Friday and Saturday nights and 11 p. m. on Sunday.

Junior and senior class counselors who live with the freshmen at the dormitory are chosen by application, recommendations and interviews. Counselors are Alice Ann Bair, Minneola; Marilyn Beason, Smith Center; Roberta Collins, Topeka; Lois Lee Eggers, Holyrood; Marilyn Garrison, Lewis; Shirley Hardin, Clyde; Peggy Hemenway, Hillsboro; Julia Henry, Wichita; Betty Hixson, Topeka; Jane Legere, Hill City; Velma Lee Metz, St. John; Ruth Moomaw, Dighton; Rosina Morawitz, Wellington; Iolene Morrison, Stafford; Nina Nelson, Topeka; Louise Starr, Paola, and Helen Winger, Johnson.

Each counselor has 10 or 12 freshman girls with whom she meets regularly. She helps them plan their time (usually one of the hardest things for a freshman to do), decide on campus activities to join, learn how to study well and become acquainted with the college.

These Are Officers

The dormitory has its officers and meetings are conducted. Janice Farmer, of Eureka, is president; Nancy Young, of Centralia, vice-president; Janice Murphy, Great Bend, secretary; Peggy Frommer, Topeka, treasurer; Pat King, Garnett, song leader; Becky Thacher, Topeka, intramurals chairman; Barbara Hart, Hutchinson, social chairman for formal functions; Ann Currie, Wichita, reporter, and Laura Speer, Clearwater, librarian.

Cost to each girl is \$248 each semester, which includes board and room. As you leave the dormitory, you know that in every respect—study, recreation, meals, rooms—Kansas State College is looking out for its freshman girls now living together in the new residence, Northwest Hall.

Editor's Note: The writer is a senior in journalism at Kansas State College, lived all her 21 years in Manhattan and is active in professional organizations on the campus. After graduation she says she's going to seek her fortune in journalism, magazine, newspaper or a publishing company.

Pumpkin Pie . . . In New Disguise



HERE'S something new in pumpkin pies . . . frozen pumpkin torte by name. Serve it all during the winter months . . . it's easy to make and has a new flavor tang.

Graham Cracker Shell: Mix together 1½ cups crushed graham crackers (about 18 single crackers), ¼ cup sugar (beet or cane), 4 tablespoons melted butter and 1 tablespoon orange juice. Press around sides and on bottom of 9-inch pie pan. Bake in slow oven (325° F.) about 10 minutes. Cool.

Filling:

2 eggs	¼ teaspoon ground cloves
¼ cup sugar (beet or cane)	¼ cup orange juice
¼ teaspoon salt	2 cups cooked pumpkin
¼ teaspoon nutmeg	
¼ cup cream, whipped	

Beat egg yolks until light and fluffy.

Slowly add ½ cup sugar, salt, spices and juice. Pour into saucepan and cook about 5 minutes or until thick, stirring continuously. Remove from heat and blend in the pumpkin. While this mixture cools, beat egg whites until foamy. Gradually add remaining sugar and beat until stiff. Fold into the cooled pumpkin mixture. Lastly fold in the whipped cream. Turn into graham cracker shell and chill in refrigerator. When ready to serve garnish with sweetened whipped cream and pecan halves. Serves 6 to 8.

Prevents Rust

To prevent rust from forming inside metal salt shaker tops, I paint inside of top with clear nail polish. When it is dry, I pick holes open with needle.—Mrs. Carl F. Hoots.

LLOYD BURLINGHAM'S



SKELGAS

FARM REPORTER

Worth Saving . . .

One thing you may be overlooking in what it takes to make country living most worth while. You are enthusiastic over 4-H Clubs and FFA work. You rejoice over the advantages young farm people have in 1952.

It is a matter of great pride to you that you have modernized production on your farm—in the fields, the barns and in your farm home. You use machines to multiply the effectiveness of an hour's effort; in your kitchen and throughout your house you make full use of conveniences and labor savers.

There's one other thing, of great importance. During the past nine years I have had the opportunity, working with the Committee of Awards, to record the stories of 465 farm families in fourteen states, winners of W. G. Skelly Agricultural Achievement Awards. Almost without exception these successful and happy people are church members. Which is cause and which effect is not important.

What counts is that useful rural living is so frequently associated with church affiliation. Your own local country church may be having tough sledding. Lend it your help. It's worth saving.

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GO MODERN...GET SKELGAS!



Go Modern—Get Skelgas—the low-cost home fuel that gives you everything!

Cooks Faster! Skelgas gives you instant heat. No waiting for warmups. Speeds every meal to delicious perfection! Nothing cooks like a Skelgas flame!

Cooks Cleaner! Pure Skelgas leaves pots and pans shining clean. Helps keep your kitchen cleaner, too.

Cooks Cooler! No after-glow to heat up your kitchen.

Cooks Better! So flexible! Skelgas gives you the exact heat your recipe calls for—not just 5 or 7 fixed heats!

For cooking, for water heating the truly Modern way, there's no fuel like Skelgas! Go Modern—Get Skelgas! See your local Skelgas dealer now!

Skelgas Families FAVORITE RECIPES

CINNAMON ORANGE MUFFINS

Mrs. Earl Hanes, Castleton, Kansas, sends us this recipe for spicy muffins. Unlike most muffins, these can be mixed the night before and stored in the refrigerator right in the muffin pan, to be popped into the oven for breakfast as well as any other time of the day.

½ cup shortening	½ cup sugar
1 egg	1 teaspoon grated orange rind
2 cups sifted flour	2 teaspoons baking powder
1 cup milk	

Cream shortening and sugar. Stir in egg and grated orange rind. Sift dry ingredients together and stir into creamed mixture alternately with milk. Fill lightly greased muffin pans about half full and bake in moderate oven (325° F.) 20 to 25 minutes. Before putting in oven, sprinkle the following topping on each muffin.

Sugar Topping

½ cup sugar	2 tablespoons flour
½ teaspoon cinnamon	2 tablespoons butter

Mix ingredients and sprinkle on muffins. Makes 12 muffins.

Your favorite recipe may win \$5 if it's published here. Please keep a copy, as none can be returned. Send your recipe now to Dept. F-252



HINTS for House and Garden

To make stained pie tins sparkle like new, boil pie tin in solution of sal soda.

To remove black marks of rubber heels on your linoleum floors, rub lightly with steel wool.

Perfume bottle top stuck? Put bottle in refrigerator overnight. Next morning top will be easily removed.

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CONTEST WINNERS!

Congratulations to the following winners of the recent "SKELGAS Name-the-Ranges" Contest:

First Prize
New Buick Sedan
Mrs. Albert Sieg
Ira, Iowa

Second Prize
\$1,000 in cash
Clara Jones
Rt. 4, Wichita, Kansas

Third Prize—\$500 in cash
Mrs. Conwell Erickson
Bailey's Harbor, Wisconsin

Congratulations, also, to the winners of 312 other fine prizes in this contest!

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For seventeen years we have been enjoying the modern comfort and convenience of Skelgas in our home. Throughout these years our Skelgas service has been completely dependable and the cost has always been low.

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Atkinson, Illinois

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in Kansas Farmer—Classified Department. Only 10c a word, per issue—12 words minimum.

Save Money On This Home Mixed Cough Syrup

Big Saving. No Cooking. So Easy.

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

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

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

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

Apron Chorus A Going Organization



MEMBERS OF THE FINNEY county homemakers' chorus pose for a picture in white aprons and dark dresses. Front row, left to right: Mrs. Roger Stillwell, Mrs. Frank Crase, Mrs. John Throckmorton, Mrs. Clarence Gercken, Mrs. J. E. Greathouse, accompanist; Mrs. Ancel Resler, director; Mrs. Raymond Ladd, Mrs. A. B. Corn, Mrs. Earl Lalicker, Mrs. Harry Gigot. Back row: Mrs. H. R. Shafer, Mrs. A. L. Buerkle, Mrs. R. G. Walters, Mrs. Claude Snodgrass, Mrs. Ira Standley, Mrs. Robert Craig, Mrs. Clinton Crouse, Mrs. Raymond Collins, Mrs. Frank Feldman, Mrs. Lynn Russell, Mrs. H. N. Brecheisen.

WHERE there's a will there's music, say members of the Finney county homemakers' chorus. They overcame many an obstacle before they emerged, well-practiced and pretty in dark dresses and light aprons, to sing before the public.

A county chorus idea was born early in 1951. A committee made up of Mrs. Ira Standley, Mrs. Lynn Russell and Mrs. Frank Feldman, approached the Farm Bureau board for funds, at the suggestion of Isabel Dodrill, county home agent. Granted funds for a limited time, the committee sought out Mrs. Ancel Resler as director and Mrs. J. E. Greathouse as accompanist.

Less than a dozen women turned out for the first practice but attendance gradually swelled to 34. Such classics as "Summertime," "By the Bend of the River," and "Green Cathedral," found a place in the repertoire along with popular numbers.

Almost at once the chorus began to get singing engagements, first in a competition at the Garden City Optimist Club, where it won second. Another date was the home demonstra-

tion spring tea, quickly followed by the Home Demonstration Week program in Dodge City, in May.

June 1 brought the end of the board's funds to pay the director. By now the ladies were so enthusiastic about the chorus they immediately began to cast about for some way to support it. Mrs. Harry Gigot and Mrs. W. J. Ulrich, now on the committee, decided to serve lunch for the Co-op's annual meeting instead of the usual bazaar or food sale. They got the job of serving the 537 plates. Those who could not wait on tables donated food. The money was a real boost.

With the closing of school and small children to care for during practice sessions, 2 high school girls volunteered to set up a nursery during the practice hour. A "penny march" each week financed the nursery. During the summer the chorus sang at band concerts in Stevens park and in Garden City churches.

Now financially secure and happy in their weekly association with neighbors and friends, the "apron" chorus is a going concern.

News to You?

IF YOUR living room chairs are not where you put them before your family or guests used them, something's wrong. Take a good look at the arrangement before you put the chairs back into place. The new grouping may be more convenient. Chairs too far apart are not conducive to good conversation. Make one or more groupings in your living room where your family and friends may sit close together to visit.

The preschool child is interested in things he sees every day, like toys, trains, airplanes, animals and people. Consider this in buying books for him. He is confused by such things as purple cows and green pigs since they are not true-to-life. Fairy tales and pictures of make-believe are too advanced for such a child. Wait until he understands them.

If you read to a 2-year-old child, remember he will be able to concentrate for about 3 minutes. A 3-year-old can concentrate for 8 minutes, and a 4-year-old for 15 minutes. Children like to hear the same story again and again, until they have learned it themselves.

Keep the heat low when cooking meat. Fat should never smoke. Low heat is better for the meat as well as the fat.

To mend a stocking, best results can be obtained by raveling a thread and making the mend with it. It is of much lighter weight than ordinary sewing thread.

A farm electrical specialist warns that you may have trouble with your home food freezer this winter if it's located where temperatures get as cold as the outdoors. Many food freezers are designed to operate only at room temperatures. If it is located in the garage, back porch, breeze-way or some other place where it gets cold, it may not run because the lubrication stiffens. If you are in doubt, check with your dealer or manufacturer.

Stoles are old-fashioned but right now the latest fashion. It's just the thing for women and girls to protect shoulders on cold evenings or to add a fashion note to a dress or suit. To make one from fabric, use a 2-yard length of material that is about 2 feet wide. And line with the same or contrasting material. The very latest material is poodle

"Leap Year Luck"

This is the title of a new playlet of 8 characters—4 girls and 4 boys. The male characters may be girls, but it is funnier if taken by men. The setting for playlet is simple and characters dress in modern attire. Write to Entertainment Editor, *Kansas Farmer*, Topeka, for copies of the leaflet. Price 5c each.

cloth. It comes in colors as well as black and is similar to the material known years ago as astrakhan. If you use that, line the stole with a bright piece of contrasting taffeta or crepe.

Only self-polishing wax is recommended for asphalt or rubber tile floors. Asphalt and rubber tile soften when polishing wax is used. Polishing wax contains a naphtha-like ingredient. One easy way to tell the difference between self-polishing wax and polishing wax is by the odor. The former wax has little or no odor, while a polishing wax has a naphtha-like smell.

It's easy to make plastic bags at home. Make them any size you wish for any purpose from storing stockings to holding vegetables in the refrigerator. The only tools you'll need are the ironing board, a warm iron and a smooth cotton press cloth. To heat seal the plastic, lay edges together, one on top of the other. Then place the edge of the cotton cloth over the plastic edge and press a half-inch strip along the edge of the press cloth. Do not put the iron directly on the plastic for it will stick and melt.

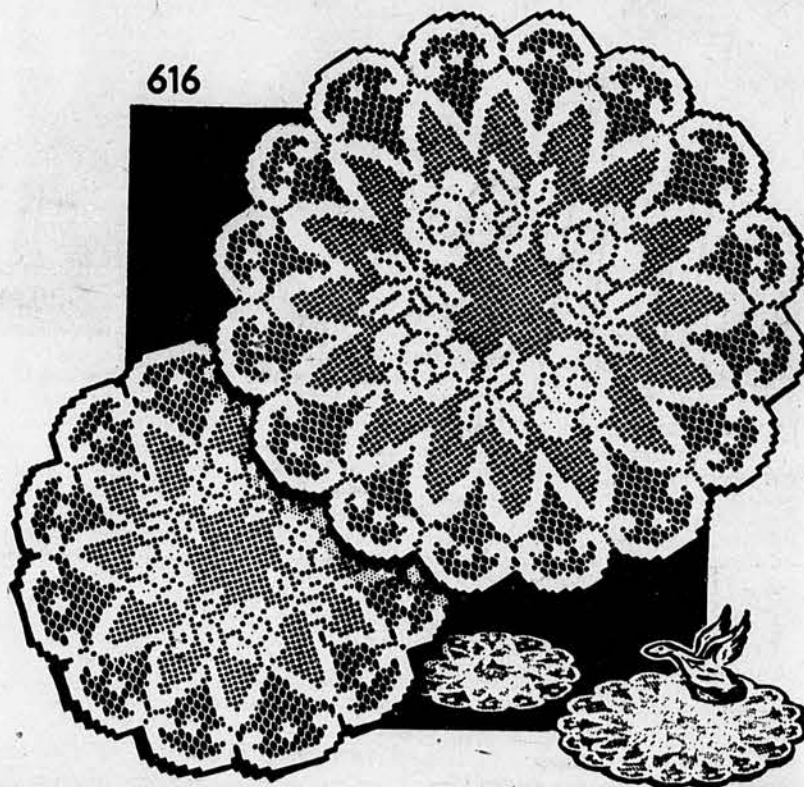
To freeze a cake, remove it from the pan and cool it completely at room temperature. Then wrap it in moisture-vapor-proof material, label the package with the name of the cake, the date and place it in your home freezer. It can be frozen with or without frosting. But don't use 7-minute or other sticky egg-white frostings on a cake you plan to freeze. An icing made of confectioners' sugar is better.

Fitting Coats and Suits

A brand-new bulletin is now available, entitled, "Fitting Coats and Suits." It is well illustrated with pictures which explain exactly how to make a tailored coat or suit fit well.

We think this is the best booklet available on the subject of home tailoring. Send 15 cents to the Home Service Editor, *Kansas Farmer*, Topeka.

Something New in Doilies



SCALLOPS are favorite trimmings on filet crochet doilies. In fine or heavy cotton, they're simple to make from easy-to-follow charts. Doilies are 12 to 16 inches across in No. 50 cotton. Pattern 616 gives charts and directions. Send 25 cents to Needlework Editor, *Kansas Farmer*, Topeka.

Styled for You



4811
SIZES
12-20
30-42

4811—Smart shirt-dress has crisp collar and cuffs, pockets in panels. Comes in sizes 12 to 20 and 30 to 42. Size 16 takes 4 1/4 yards of 35-inch material and 1/4 yard contrast.

9092
SIZES
12-20
30-42

9092—Little round front-yoke is flattering, so are the gathers. Pockets give hip interest. Sizes 12 to 20 and 30 to 42. Size 16 takes 3 1/4 yards 39-inch material.

9200—Two-version dress, one with scallopy neckline and cap sleeves. Other is cut for sun fun. Comes in sizes 2 to 10. Size 6 dress takes 2 yards 35-inch.

4914
SIZES
34-50

4914—Simple shirt-dress with high-styled touches. Comes in sizes 34 to 50. Size 36 takes 3 1/4 yards 39-inch material. Transfer included.

4712—A jiffy wrap-on in 4 main pieces (see diagram). Opens flat to iron. No fitting needed. Comes in sizes 12 to 20 and 30 to 42. Size 16 takes 3 1/2 yards 35-inch material.

9270—Step-in dress with big pockets and center front pleat. Choice of 4 sleeve lengths. Comes in sizes 12 to 20 and 30 to 42. Size 16 takes 4 1/4 yards 35-inch fabric and 1/4 yard contrast.



9270 SIZES 12-20 30-42

9200 SIZES 2-10

4712
SIZES
12-20 30-42

Takes More Than Smell

Smell of cedar and pine oil in a closet or clothes bag or even a cedar chest does not discourage a clothes moth one bit. It takes more than a smell. DDT preparations or flake naphthalene are the best enemies of the moth.

Shop Before Buying

If you are in the market for an electric dishwasher study all the models. Some have doors on the side, some on top. A side door leaves the top for a

work surface, but has one disadvantage... just-rinsed dishes may drip onto the floor while being placed inside. With a top opening, the dripping goes into the washer. So study all the models before you buy.

Safety Method

If you need to drive a tack or a nail in a place that is higher than you can reach, you may put it in a long strip of heavy cardboard. This often prevents a mashed finger and saves dropping the nail.—Mrs. Florence Beal.



Finds speedy Dry Yeast a grand help

BUSY MOTHER IS PRIZE COOK AT KANSAS STATE FAIR

Twelve-year-old Marilyn admires her mother's prize ribbons at their home in Corbin, Kansas. Mrs. Ted Lungren won those ribbons last fall at the Kansas State Fair—8 altogether! This was Mrs. Lungren's first State Fair competition, although she had been a winner for many years at the Sumner and Cowley County Fairs.

Besides preparing special dishes for the fairs, Mrs. Lungren keeps busy cooking for her four hungry children. As a busy mother and a prize-winning

cook, she swears by Fleischmann's Active Dry Yeast. "It rises so fast," she says. "And it's so easy to use!"

It's wonderful—the rich, delectable flavor of yeast-raised goodies. A treat for your family—and nourishing, too! When you bake at home, use yeast. And use the best—Fleischmann's Active Dry Yeast. This grand Dry Yeast is always dependable, so convenient. It's fast rising, fast dissolving—stays fresh for months. Buy a supply today.

CAN YOU ANSWER These Questions?



Why should a person make a will? Who can make a will? Must a will be in writing in order to be legal? Is it necessary to have a lawyer write your will? What will become of your property if you die without making a will? When is the best time to make a will?

These are a few of the 50 questions concerning the making of a will all of which are answered correctly in a new booklet entitled "Your Will." We have a copy for you free with the compliments of the Capper Foundation. It contains a blank "will form" on

which you may write your own will.

The booklet is of special interest to persons who expect at some time to make a bequest to charity.

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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!

The Poet's Corner

Morale Booster

When I'm addressed as "Mrs.,"
I somehow cannot feel
That folks who thus address me
Show friendliness that's real.

And tho they smile and chatter,
It does not warm my heart.
I just don't feel quite near them,
We're much too far apart.

But when they use my first name,
My heart feels warm, not cold.
And better still, I must confess,
I do not feel so old.

—By Marjorie M. Griffiths.

Hint for the Homemaker

When you for days have known the joys
Of wading thru the tinker toys,
Of skidding on a misplaced skate,
Of choking over chalky slate,
Have picked up dolls... perhaps a
million...

Invented stories by the "jillion,"
Have rescued crayons inclined to stray,
Relieved the floor of modeling clay,
Have long endured the scratchy glare
Of record player in the air,
Or tried to quell the raucous noise
Of too-long-housed-up girls and boys...
Take time to read the morning news;
It's nearly sure to change your views,
For true or false it will declare
"Tomorrow's weather: warm and fair."

—By C. S. M.

Farm Boy's Lament

The rooster has a rudder
To guide him when he flies
On top the barnyard fence
To greet the bright sunrise;
But why must he broadcast
His own remote control?
I have no pilot wings
To fly the dawn patrol.

—By Ann Williams.

Grandfather's Farm

Out in the country on grandfather's farm

Is the place for a boy when the weather is warm;

He can wade in the brook, see the minnows at play,

Pick wild flowers for granny, watch men making hay;

Follow the plow, bare feet treading the soil;

At the end of a furrow, wait for grandpa to oil;

He cheerfully carries fresh drinks for the men,

And hunts for the nest of the old speckled hen.

The haymow has wonderful places to hide,

In the lot, Barney waits to give boys a ride.

There's no end to the cookies, milk sweet and cold,

"Good for you," says granny, "drink all you can hold."

Her beds are the softest, her meals are the best,

She knows growing boys need good food, lots of rest.

There's no doubt about it, each day has new charm

Out in the country on grandfather's farm.

—By Delcie Nolan.

My Neighbor

I know folks smile at her quaint array
As she busies herself on the lawn,
Awkwardly stooping now and then
With youth and grace long gone.

If only folks knew she sees them smile!
But little it is they know
Of the gallant heart which tends those plants
And lives to see them grow.

—By V. L. Crabtree.

Books On Review

The Brazilians

To write a book about the people of one land and make them understandable to another, an author must know both countries well. Dr. Hernane Tavares de Sa, author of *The Brazilians*, is a Brazilian who has this ideal qualification. He is steeped in the tradition of his own country and has traveled over the United States several times. He is a son of a Brazilian diplomat, has lectured in our country and taught in colleges here.

The book is easily read, written for the North American who wants to know about the people of Brazil, their habits, customs, the geography of the country, its industry, agriculture, religion, sanitation or rather lack of it, the language, the life of the intellectuals, life in the largest cities and in the poorest rural districts.

World's Largest River

It's revealing to read that Brazil is considerably larger than the United States, that the Amazon is navigable for a thousand miles by the largest ocean liners. At its mouth the airline hostess of the Pan American Airways starts down the aisle to tell her travelers that they are starting to cross the Amazon. Thirty minutes later, she returns to say that they have just completed the trip over the world's largest river.

Educating the masses of the people looms as Brazil's most urgent problem. The rate of illiteracy is 65 per cent... which is very high even for South America. Three million children have no schools at all. As far as records show, there is no decrease in the illiteracy rate.

Contrary to common belief, more people in South America speak Portuguese than Spanish. Portuguese-speak-

ing Brazilians cannot understand their Spanish neighbors, Brazil is in reality no democracy, and the people suffer from a sense of personal impotence, knowing that all power is concentrated in the hands of government. The book closes with this quotation, "The difference between the United States and Brazil is that in the United States the people believe that the country belongs to them, and in Brazil they know it belongs to the government."

"The Brazilians, People of Tomorrow," by Hernane Tavares de Sa is published by The John Day Publishing Company, New York City. Price \$3.

Dear Mr. President

This is the story of 50 years in the White House mail room. Ira R. T. Smith, the author, was chief of mails in the home of the Presidents for 50 years from McKinley thru part of the Truman administration. Since his retirement he has put down in words his experiences opening the Presidents' mail.

There was McKinley, last of the old-style Presidents; Teddy Roosevelt, the great outdoor man; Taft, who refused to stay on a diet. He tells about the time Eleanor Roosevelt, annoyed at his search for bombs in every unidentified package that came for her husband, kept insisting, "But everybody loves Franklin."

"Dear Mr. President" is the story not only of the Presidents but of the American people themselves, the outspoken, the unknown, the great, the small, who write to criticize, praise, curse or just pass the time of day. It's full of wit and good humor and easily read by young and old.

It is published by Julian Messner, Inc., 8 West 40th St., New York City. Cost \$3.00. Try your public library or bookstore.

Who Will Use Krilium?

By WILLIAM G. AMSTEIN, Kansas State College

SINCE early in January many inquiries have been received in meetings and by letter regarding use of Krilium for soil improvement. Announcement of this product by Monsanto Chemical Company has led to many requests for samples or sources of supply. However, it is understood no regular source of supply is to be available until next year.

A release of the Bureau of Plant Industry, USDA, is the basis for this information on Krilium. It is a soil conditioner and not a fertilizer. No claims are made for fertilizer value of the material, but improvement of physical conditions resulting from its use may cause the plant nutrients of soils, as well as those of fertilizers, to become more useful to growing plants.

Krilium is a nearly white powder that can transform tight, gummy clays into friable materials of crumb-like structure, similar to good garden soils. It moves very little after application to soil, which means impervious subsoils may greatly diminish usefulness of the material incorporated to plow-depth.

Chemically this material is a sodium or calcium salt of a hydrolyzed polyacrylonitrile. It is a long-chain, organic molecule, somewhat similar in structure to the nylon molecule. It improves soil structure by aggregating and loosely cementing clay particles in much the same way that decomposing organic matter acts. Yet the new compound decomposes in the soil extremely slowly, at a rate not yet determined.

During the 1951 growing season experiments were conducted by the Bureau of Plant Industry on certain soils in California with favorable results. Other experiments included work in Alabama, Tennessee, Pennsylvania and Wisconsin. The material has been shown to produce definite improvement in the

physical character of heavy clay soils, thereby encouraging greater root development. It is thought better aeration is one of the beneficial effects.

Rates of application range from about 400 to 2,000 pounds per acre when incorporated in soil to a 6-inch depth. Perhaps 1,000 pounds will constitute a suggested rate when the material is uniformly incorporated with soil. Possibilities of widespread agricultural use, however, do not seem large, in view of proposed introductory prices.

A small number of specialized agricultural uses for which the material might be suited include—preparation of potting soils, greenhouse production of flowers and vegetables, the home flower and vegetable garden located on heavy, difficult-to-work soil, and possibly certain market garden areas where specialty crops are grown. Many locations might justify this extra expense because of market value attached to crops grown there.

Another field of possible use includes stabilization of soil on road cuts and similar engineering uses. In such cases an application of one pound per 100 square feet (about 400 pounds per acre), applied at the surface serves to hold the soil while turf is being started from seed.

Additional research is planned by the Bureau of Plant Industry and by several state agricultural experiment stations. Reports on this work will be made from time to time. One item receiving attention is treatment of a narrow band of soil above the seed to improve germination.

Our knowledge of the possible place of Krilium, or similar materials, in our cropping programs remains largely for the future. However, no doubt many specialty growers, especially in the horticultural field, will be eager to try this type of material as soon as it is made available.

Pneumonia Is Treacherous!

By CHARLES H. LERRIGO, M.D.

SO YOU no longer fear pneumonia? Penicillin and such drugs seem to have it licked. Truly thankful we are the pneumonia death rate has been cut in two; but don't forget, please, pneumonia is still a very dangerous disease. Don't trifle with its early symptoms. It still kills some 50,000 Americans every year. The only real refuge for any person with early symptoms of pneumonia is safe in a comfortable bed. And the wise treatment is that which can be given by a fully-qualified physician, and early in the case.

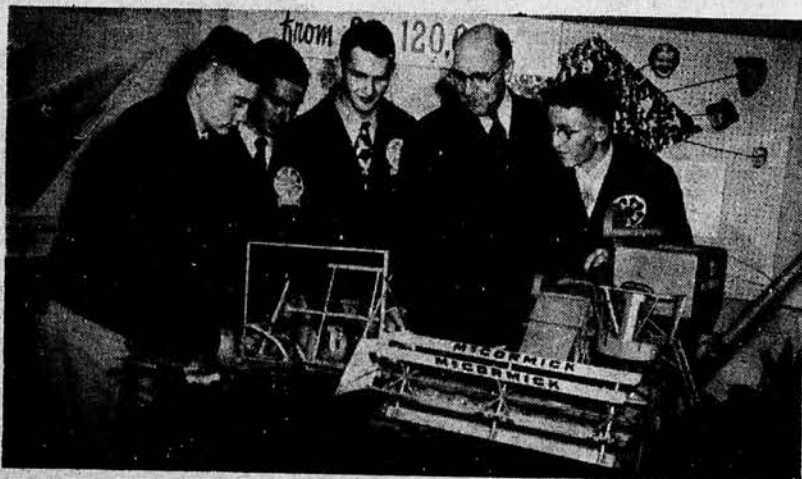
Mark that word "early!" Let a case run along day after day, while you "stick it out," and even antibiotic drugs will be too late. Seldom do I risk scaring a sick person by intimating mild symptoms may "run into" something serious. But of all diseases that may bring a fatal climax to a set of symptoms that seem hardly worth attention, be assured pneumonia is more treacherous than all.

This is especially true of aged persons, those who may have given up active work, yet are easily tempted to brave a storm in order to do this or that. As I study death records of the aged it is in their ranks the classification shoots to the front.

Glad altho we are that pneumonia seems less dangerous and brings fewer deaths, we warn you emphatically that it still demands early treatment, the best of nursing and the best of medical skill. Furthermore, never forget it is contagious. Scrupulously avoid the coughers and spitters who crowd upon you in theaters and public conveniences. If the patient is a friend do your visiting by sending flowers or by writing a letter.

In weather that invites epidemics build up your body resistance by good clothing, plenty of sleep, and diet that has the necessary elements for nourishment, including vitamins and minerals. Don't harbor the idea you must have a certain number of colds every season. Consult your physician, watch your hygiene, and avoid colds.

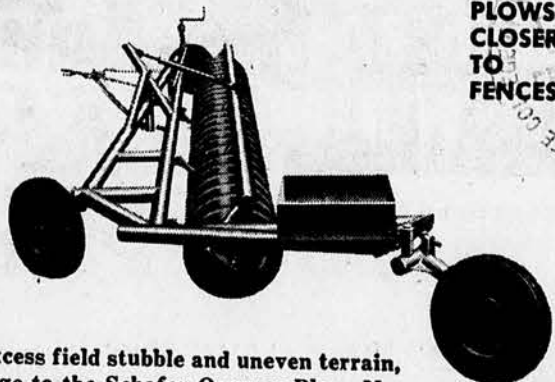
Harvesters Old and New



A WINNER in the national 4-H field crops program for 1951 was Maurice Pivenka, Timken, who won a \$300 college scholarship from International Harvester Company, sponsor of the program. Shown above are winners and J. L. McCaffrey, president of International Harvester, comparing replicas of the McCormick reaper, built in 1831, and the McCormick harvester-thresher of today, at the recent National 4-H Congress in Chicago.

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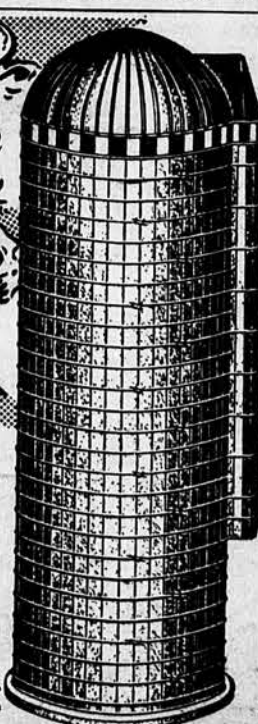
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Hear Rex Allen and the Sons of the Pioneers over C. B. S.
See your local paper for time and station.

New Ideas on Feeding Bring Far Better Returns

By MIKE BURNS

OLD IDEAS of feeding haven't a chance these days, now that nutritionists know how to get more return from economical home-grown feeds by balancing nutrient deficiencies of those feeds. Feed technicians speaking at a conference of feed dealers and manufacturers at Manhattan recently emphasized this point and explained lack of better results in past years was due to lack of "know-how" to balance these deficiencies.

Low-grade roughages—corn cobs, straw, grass and corn silages—all high in cellulose and of relatively little value by themselves, can be properly balanced to be equal in many cases to the finest feeds available, Dr. W. M. Beeson, of Purdue University, feature speaker at the 2-day conference, pointed out.

"Corn silage from 70-bushel, 15-ton corn, supplemented with 'Purdue Cattle Supplement A' produced 1,600 to 2,000 pounds of beef per acre. An acre of corn silage produced sufficient silage to feed 5 steers 6 months. Deducting cost of supplement and ensiling corn left a per acre return of \$385, an average return of \$5.50 per bushel for corn marketed as beef, and that's a very conservative estimate," Doctor Beeson explained as he cited results of experimental work under his direction.

Stalks and Cobs Good

"Half of the nutritive value of a corn crop is in the kernel and half in the stalks, cobs and leaves. Knowing how to balance the part usually left in the field will give us the benefit of roughages in making beef. Basic to success in feeding roughages to ruminants," Doctor Beeson said, "is supplying a supplement with adequate nutrients to nourish the billions of bacteria in the paunch or rumen of cattle so indigestible roughages can be broken down into usable form. We are just starting to explore use of roughages and no doubt many other feeds of this kind will be found usable."

Supplement A, developed at Purdue, consists of soybean oil meal 64 per cent, molasses feed (45 per cent molasses mixed with a carrier), 28.5 per cent bone meal, 5 per cent salt with cobalt, 1.7 per cent, and A and D vitamin concentrate, .25 per cent fed 3.5 pounds per steer daily along with corn silage, fed free choice. Calves averaged 37 pounds of silage daily. Gains were 2 or more pounds per head per day at a cost last year of 15 cents a pound. No hay or dry roughage was fed. Diet was scientifically balanced, hence no scouring. Grass silage properly supplemented gave 2 pounds a day gain at 18 cents a pound, steer calves getting free choice 37 pounds of silage a day and 3.5 pounds of supplement, Doctor Beeson said. No dry roughage was fed. On this program an acre of silage produced 1,432 pounds

of beef and left ample pasture after first cutting for grazing rest of season. Deducting costs of supplement, corn for preservative, and ensiling left a net return of \$246 per acre from 30-cent steers, the Purdue animal husbandryman reported.

Corn cobs, oat straw or soybean straw plus Supplement A gave daily gains of 1.5, .93 and .78 pounds respectively for 16, 21 and 33 cents a pound.

For success in making grass silage, Doctor Beeson suggested field chopping grass into a truck or wagon and putting it into an upright trench or surface silo, soon as possible. Wilting silage, Doctor Beeson said, defeats the purpose of making it in all kinds of weather and requires more labor. He recommended 130 pounds of ground corn cobs or dry roughage (such as chopped straw or hay) be added to each ton of fresh material. This prevents excess seepage and loss of water-soluble nutrients from excessively moist silage. A preservative of 100 or 150 pounds of grain (corn, wheat, barley, sorghum or oats), 80 pounds of molasses or 100 pounds of molasses feed per ton should also be used. Preservative retains its feeding value in silage.

First-crop hay in the Midwest usually is rained on and loses 30 to 60 per cent of its nutritive value, while this crop put into silage will retain most all of its original value, Doctor Beeson emphasized.

In summarizing balancing of roughages, Doctor Beeson explained functions of various supplement ingredients. Supplement, he said, supplies protein, and minerals usually deficient in roughages, especially minerals—salt, calcium, phosphorus, cobalt—possibly iodine. Roughages frequently lack vitamin A which is supplied with a supplement or high-quality legume hay. Molasses supply available carbohydrates, make feed more palatable, and also supply sugars which aid in cellulose utilization. Other deficiencies also may be discovered by additional research, to even more efficiently use many feeds which have been wasted.

Big Broiler Increase

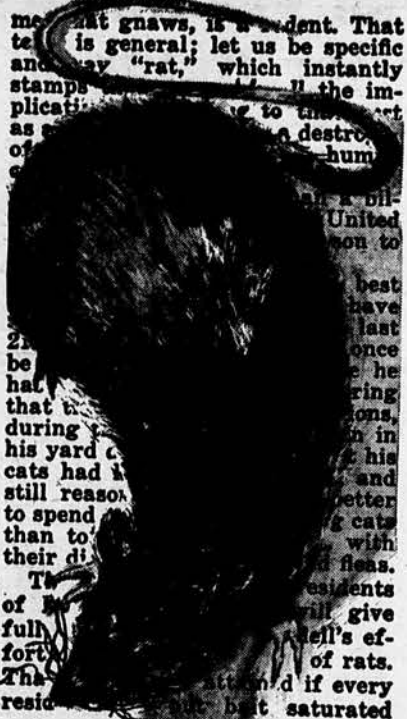
H. Ernest Bechtel, director of research at Larro Research farm in Detroit, Mich., emphasized rapid growth and tight competition in the nation's broiler industry—Kansas production jumped 35 per cent in the last year—as he emphasized sudden changes in industry methods could make today's successful methods outmoded without notice. Looking to tomorrow, he emphasized that birds of superior inheritance will outweigh those of poorer breeding when given same feed and management.

Manufactured broiler feeds today, he said, are complex mixtures of nutri-

(Continued from Page 33)



USE OF RADIOACTIVE isotopes in nutrition research was demonstrated in this Formula Feed Conference exhibit. Discussing the exhibit are, from left, John L. Monaghan, director State Board of Agriculture control division; Paul Hams, assistant secretary of the State Board of Agriculture; and Jack Dean, executive vice-president, Midwest Feed Manufacturers Association. D. C. Butler, feed dealer at Halstead, is shown at right examining a display.



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Ruins May Be Seen

Most interesting archeological ruins in Kansas are located 12 miles north of Scott City. It is an old Indian pueblo structure, built by Pueblo Indians who fled from Spanish oppression in Taos, N. M. The date has been placed from 1650 to 1720. Nearby, a sword believed to have been carried by one of Coronado's men was found. It is now in the State Historical Museum at Topeka. The ruins is called El Quartejelejo.

New Ideas on Feeding

(Continued from Page 32)

ents, not just ingredients. They are result of extensive and best available research. Compared with 1934, today's ration gives 55 per cent greater growth at 10 weeks of age, \$307.53 extra income over feed costs per 1,000 broilers.

Medicated broiler feeds, he said, are giving good results, especially in coccidiosis control, and arsenicals are being used as growth stimulants on an increasing scale. Devices are being developed for medicating drinking water.

Doctor Bechtel also discussed methods of getting more out of commercial livestock feeds. He emphasized the part roughages play in the dairy ration, pointing out feed nutrients can be produced more economically in the form of roughage than in any other crop, nor, he said, is any field too good or too valuable to grow roughage. No matter how good the mixture in the feed bag, it cannot produce top results without a good roughage program in conjunction with it. Always feed for capacity production, he said. As production increases, income over feed costs rises more rapidly thru lower unit costs. This is true, for example, with pigs. It takes 5 pigs per litter to break even. A 9-pig litter, which can be achieved under favorable conditions, will return profits equal to 4 litters of 6 pigs.

Watch Faulty Points

Getting the most out of feed also requires general alertness in spotting management faults. If mastitis is a problem, managed milking may be the solution. There is no experimental proof of any relation between feed and mastitis. Deep litter may be back of a poultry parasite problem. A winter slump in egg production may be lack of artificial light. A 14-hour day is recommended with usually a 60-watt bulb and bright reflector at 6 feet height and at 10-foot intervals thru laying house. To raise his own replacements, a dairyman should have one heifer calf under a year old and one heifer calf between one and 2 years old for each 4 milking and dry cows. Summer slumps in milk production may be due to heat, short feed or something else. Answer may lie in more cattle comfort in hot weather or feeding hay to cows on pasture.

Antibiotics and vitamin B₁₂ supplements in the feeding program were discussed by Doctor Beeson in feeding swine and by Dr. Paul E. Sanford in feeding poultry. Antibiotics are known to increase rate growth of hogs about .4 pound daily, improve feed efficiency 5 to 10 per cent, and tend to make a group of hogs grow at a more even rate for more uniform market weight, Doctor Beeson said. For maximum gains, antibiotics should be fed from the time the pigs starts eating—2 weeks or earlier—until market weight. Best amount of antibiotic varies with antibiotic, individual animal, environment and type diet. Generally, 5 to 10 mg. per pound

of total finished feed gives maximum response. Antibiotics fed to pregnant sows has no favorable effect on birth weight, strength, livability or disease resistance of newborn pigs. Creep feeding antibiotics to pigs during the suckling period will increase the 56-day weaning weight about 10 pounds or more per pig. Antibiotics are not a substitute for well-balanced rations, sanitation or disease control, he continued.

Vitamin B₁₂, research proves without a doubt, gives an increased growth rate and is also required for nutrition of the unborn pig, Doctor Beeson said. In commenting on recent research on weaning pigs at 4 to 5 weeks, and use of synthetic milk, he said eventual results should be more pigs raised per litter, more successful raising of orphan pigs, more litters per sow per year and more efficient production.

Doctor Sanford reported definite proof of increased growth, reduced mortality and increased feed efficiency using antibiotics. Vitamin B₁₂ added along with antibiotics to chick diets gave additional increases in weight.

Baby chicks seem to prefer and make best gains on pellets, as shown by one of the outstanding displays of experimental work in feeding, set up for the conference. Pellets proved the leader diet, with mash and granules following.

Doctor Sanford reported birds recognized their favorites by a sense of smell. Further experiments will be conducted. Work was also done to determine color preference using various soft drinks.

Liked Green-colored Water

This somewhat parallels work at Dr. Salsbury's Laboratories, Charles City, Ia., in which it was definitely proved "green-colored water attracted much greater consumption than any other color or uncolored water."

At Beltsville, Md., H. R. Bird, of the Agricultural Research Center, reports a few years ago work with colored feeds showed chickens preferred those feeds dyed blue or red more than those dyed green or orange. However, greatest feed consumption was achieved when particles of different colored feed were mixed.

John L. Monaghan, director of the State Board of Agriculture feed control division, discussed work in determining toxic effects of feeds.

Feeders should be sold what they need, O. Burr Ross, of Gooch Feed Mill Co., Salina, told dealers. A sound selling program of feeds to balance home-grown grains or roughages is essential for best interests of feeder and feed industry, he said.

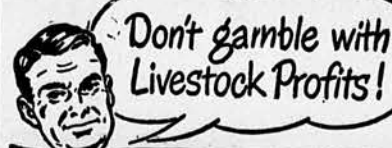
This 7th annual gathering was sponsored by Kansas State College, the State Board of Agriculture, Midwest Feed Manufacturer's Association, and Kansas Grain, Feed and Seed Dealers' Association.

Discuss Outlook Of Farm Equipment

The coming year appears to be as good as 1951 for farm equipment dealers and farmers, but uncertainty of materials may prevent manufacturers from producing enough farm equipment to meet demand.

At a meeting of 350 Ford Tractor dealers and employees in Kansas City January 28, R. B. Robins, Western Sales Manager for Dearborn Motors Corp., Birmingham, Mich., also stated, "Increased crop quotas and high farm income indicate a strong demand for farm equipment during 1952." The event was sponsored by Kansas City Tractor and Implement Company and Dearborn Motors.

"Possible shortages of material for farm equipment production in the first 2 quarters, at least, of 1952 can be offset in part by the present favorable inventories," Mr. Robins said. Dealers were given an action program for improving service operations and sales.



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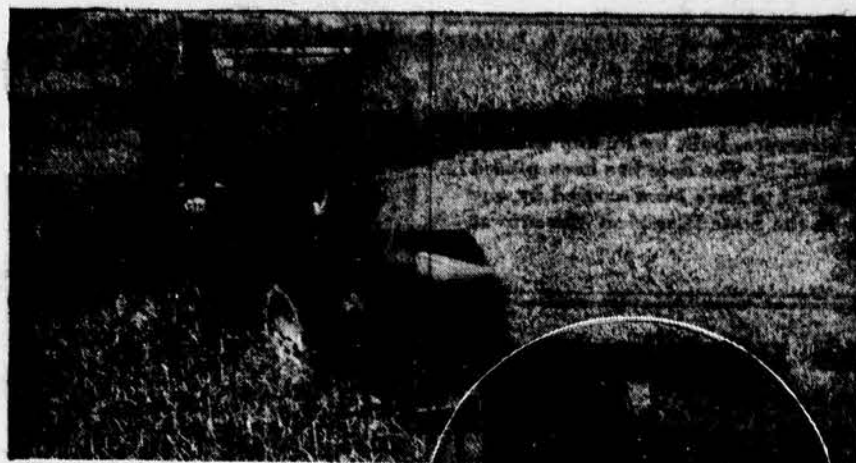
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Discuss Production Problems At Garden City Congress

Crops and livestock problems will be discussed by a group of specialists at 2nd annual Southwest Agricultural Congress at Garden City, February 20 and 21. Speakers include representatives of Kansas State College agricultural staff, U. S. Soil Conservation Service, and Federal Reserve Bank in Wichita.

There will a clinic on irrigation problems, soil management and production of sheep, beef and dairy cattle.

Really Doing Things

(Continued from Page 1)

using his monthly allotment to build up a herd of purebred Berkshire hogs. In addition to his livestock he is producing certified Pawnee wheat and certified Nemaha oats. His flock of 400 Austra White pullets was laying at a 60 per cent clip by October 1. High production in early fall months is a highly recommended practice.

Gerald and Marvin McCrerey, cousins of Thayne, are joint lessees of 225 acres and their main livestock project is deferred-feeding of steers, another highly recommended practice for Kansas.

These 2 men are especially good in their shop work, an important part of their G.I. training program. One of their outstanding shop jobs was to convert an old pull-type corn picker to a semi-mounted type for either a Ford or Ferguson tractor. They did this at an actual material cost of about \$5.

Advantages of their corn picker now over the old pull-type are many. It does a more efficient job and will pick closer to the end of rows. They can turn shorter and don't knock down so much corn on turns. Since these men farm on the contour they find the picker works much better now in shooting the ears from elevator into trailer on curves.

Made Good Progress

A former Texas candy salesman, M. J. Anderson is just completing his first year of training and already has made outstanding progress. Since he enrolled January 1, 1951, he has accumulated a tractor, plow and cultivator and is making a 4-wheel trailer in the school shop. He also has 2 heifers and 21 hogs to show for his first year.

The Andersons are proudest, however, of their garden. Producing food for the home is a point stressed in the training program, and the Andersons have taken it to heart. "We cut our grocery bill from \$25 a week down to \$5 a week last summer and this fall," says Mrs. Anderson.

In addition to eating all they wanted while the garden was going well, they have laid by a winter supply of canned and frozen foods. Here are some of the things they have in storage: 70 quarts of canned beans and 6 quarts of frozen, 41 quarts of tomatoes and tomato juice, 20 quarts of turnip kraut and 20 quarts of cabbage kraut, 10 quarts of bread-and-butter pickles, 12 pints of raspberries, 12 pints of peach butter, 40 jars of jellies, 40 quarts of grape juice,

10 pints peaches, 6 pints cherries, 6 pints gooseberries, 12 pints beets, 6 pints Swiss chard, 3 pints applesauce. In the freezer, in addition to 6 quarts of beans, they have 6 pints of cherries, 16 pints of chard, 50 pints of sweet corn, 6 pints peas, 10 pints strawberries, 8 pints rhubarb, 2 pints okra and 24 spring chickens.

Thirteen bushels of potatoes are stored in the garage and on September 29 the Andersons were still enjoying fresh-from-the-garden tomatoes, carrots, green peppers, salsify and cabbage.

Sam Finger graduated from his training course a year ago but made so much progress during his training he was able to buy his present 160-acre farm. Here is what he says about his progress:

"I would never have made it without the encouragement and help of the veterans training program," he says. "There were so many things I didn't understand until I had a chance to study them. I thought protein was just something the salesmen wanted to unload until I found out why it was important. I thought soil conservation work such as terraces and waterways were just added expenses. Now I know they are investments that insure profits on the farm. And I never would have had the courage to buy livestock at such high prices without the encouragement and backing of my instructor, Earl Coulter."

When we called on Mr. Finger he was in the midst of solving a water problem with the help of soil conservation technicians. He has learned to use all available agencies in getting his farm into top production. The main livestock program on the farm is deferred-fed beef. Sixty-eight head were handled during 1951.

Instructor Coulter puts it this way: "I like to work with these fellows because they're really doing things. They have a lot of fun, too, but they know farming is a serious business that challenges their best—and that's just what they give it."

Build Many Ponds

Kansas needs 66,000 more farm ponds, and this goal will be reached by 1957 unless the present rate of construction is slackened. Harold Harper, Kansas State College Extension soil conservationist, also reports Kansans built 40,000 farm ponds since 1937.



Kansas 4-H Club reporters are busy these days! Many stories are being written about what clubs are doing—activities of members and of communities.

Here is a partial list of 4-H members who have written Kansas Farmer about the 1952 contest, (announced in our January 19 issue) and for one of our "Suggestion Sheets" of 4-H stories to prepare:

Kathleen Wilson, Burlingame; Kirk Glass, Route 1, Ellis; Treva Moss, Atlanta; Donita Gislack, Timken; Lois Swart, Route 2, Riley; Romona Witt, Hudson; Judy Piper, Route 2, Everest; Beverly Faris, Route 2, Spring Hill; Joyce Williamson, Route 1, Burlington; Mary Heffern, Piqua; Janet Scott, Wellsville; Joyce Watts, Route 4, Emporia; Roy R. Rau, Route 2, Wakefield; Clare Patterson, Jr., Route 2, Augusta; Dave Brownlee, Deerfield; Rosemary Schallelin, Route 1, Reading; Nancy Sue White, Fulton; Della M. Kreft, Natoma; Reba Dell Quimby, Route 1, Larned; Barbara Mills, Route 3, Olathe; Helen Krauss, Edmond; Carl Henry, Michigan Valley.

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Some Investigation Seems Necessary

By CLIF STRATTON

Kansas Farmer's National Affairs Editor

IT WAS said recently this second session of the 82nd Congress would be an investigating, rather than a legislating, Congress. Still looks like it, altho the Pentagon still has hopes it will get the nose of Universal Military Training inside the tent, thru the "mild" bill approved by the House Committee on Armed Services. Given a generation or so of youth indoctrinated to be military-minded, and the transition to a military government will not be difficult.

Same Men Head CCC-PMA

High on the list of federal agencies under investigation is the Commodity Credit Corporation and, what is the same thing, the Production and Marketing Administration (Grain Branch). The president of CCC is Ralph S. Trigg; the administrator of PMA is Ralph S. Trigg.

Frank K. Woolley is vice-president of CCC, also deputy administrator of PMA.

Lionel C. Holm is secretary of CCC, also executive assistant to the administrator of PMA.

Harold K. Hill is vice-president of CCC and assistant administrator of production for PMA.

John I. Thompson is a vice-president of CCC and assistant administrator for marketing for PMA.

Elmer K. Kruse is a vice-president of CCC and assistant administrator for commodity operations for PMA.

Robert W. Herder is a vice-president of CCC and assistant administrator for program coordination for PMA.

Trigg, Woolley, Kruse and Hill, with Secretary of Agriculture Charles F. Brannan (chairman), and 2 others are the board of directors of CCC.

The 2 members of the board of CCC who are not directly in the higher echelon of PMA are Clarence J. McCormick, Undersecretary of Agriculture, and Knox T. Hutchinson, Assistant Secretary of Agriculture.

In other words the board of directors of CCC, the officers of the same Commodity Credit Corporation, and the administrators of PMA, are one and the same thing. All operate directly under, and completely under, the Secretary of Agriculture.

Last week the agriculture subcommittee of the House appropriations committee (Rep. Jamie L. Whitten, D-Miss., chairman subcommittee) made public a 398-page report accusing these Department of Agriculture officials of "gross negligence," bad judgment—occasional "improper action"—in administering the grain storage program of CCC-PMA.

Last week, also, the Senate Committee on Agriculture set a special staff investigating the PMA-CCC operations in grains and other CCC commodities, based on a previous "preliminary report of investigation by Lindsay Warren, Comptroller General, and on advance information from Whitten's House subcommittee.

Last week, also, it was made public that the Department of Justice, upon information provided by Agriculture, had instituted proceedings to recover \$4,875,000 from 15 storage firms in connection with alleged shortages of grains and other products stored under price-control programs, plus \$177,000 from firms for failure to deliver grains of the grade the Government paid them for in the overseas supply program.

And last week, also, Secretary Brannan announced that 2 officials in the Dallas office of PMA-CCC had been discharged—Director Latham White and Assistant Director Harry James Solomon.

Shortages Into Millions

The official explosion over grain shortages detonated about a month ago when Comptroller General Warren released a report showing grain shortages running into the millions of dollars in warehouses which handled CCC grain.

Secretary Brannan told the press the charges were "politically inspired" and indicated there was nothing to them. Following week both Lindsay and Brannan appeared before the Senate Agriculture committee; Brannan apologized for the "politically inspired"

statements—at least so far as Warren was concerned.

Warren gave the committee a "preliminary report of investigation, alleged irregularities in connection with warehousing facilities, grain branch, Production and Marketing Administration, Department of Agriculture, Dallas, Tex."

Warren estimated that grain shortages, thru conversion (sale of government grain by warehousemen who figured they could replace it later at lower prices), spoilage, deterioration, poor grading, inefficient inspection and bad judgment of PMA officials and employees, would run in excess of \$3,800,000 in the Dallas 5-state area alone.

Secretary Brannan estimated total losses to CCC thru PMA operations would run a gross of from 5 million to 7 million dollars—but that recoveries should cut the net loss down to "about one million dollars."

At the conclusion of the Senate committee preliminary hearing—the committee voted to spend \$50,000 for a detailed staff investigation—Secretary Brannan professed to be well pleased with the Warren report. "Our case is made," said Brannan. "They didn't claim any fraud—just bad management."

A Few Examples

The Whitten committee report did not take exactly that slant. It pointed not only at what Brannan confessed to be "bad management," but also at possible collusion by PMA personnel and other government officials.

One example: An employee discharged from the Dallas office and under indictment for taking a bribe of \$1,750 has turned up on the pay roll of OPS, with a \$4,575-year job. Stephen G. Benit, the report states, has been indicted for accepting a bribe from an Oklahoma grain elevator to insure allocation of CCC-owned commodities.

Another: Fifteen employees of the Dallas CCC office were found to have accepted gifts ranging from Stetson hats and a sterling silver belt buckle to expense-paid trips to "dude ranches." An investigation by PMA indicated losses between \$12,500 and \$50,000 due to a strange tie-up between officials of the Kansas City PMA-CCC branch and the Lone Star Co., of Houston, Tex. Carl G. Rausch and Willard D. McCabe of the K. C. office were declared to have shown favoritism to the Lone Star Co., by informing of competitors' low bids on some contracts to furnish grain bags; also to have awarded one contract to Lone Star when it was not the low bidder. Committee report said they received such gratuities as binoculars and clocks from Lone Star; recommended the men be fired.

Emergency Grain Storage Co., the committee reported, stored grain at Forbes Air Base, Topeka, Kan., paying government \$3,985 rental and then collecting storage payments from PMA-CCC amounting to \$203,448. At Camp Crowder, Mo., it is charged that during 20 months Midwest Grain Co. was paid \$382,000 in storage charges in army facilities for which the company paid \$11,270 rental charges.

Study Camp Crowder Storage

The V. M. Harris Grain Co., it is charged, leased similar Camp Crowder facilities for \$16,713, collected storage charges from PMA-CCC amounting to \$390,335. The Camp Crowder mess will be first one explored by Senate Agriculture committee.

Whitten committee report states that 109 of the storage facilities used by PMA-CCC in 1949 and 1950 were surplus government facilities leased to private individuals or corporations, then sublet to CCC-PMA.

The Warren and Whitten reports list numerous such cases, running into the millions. Bulk of government losses, in the Dallas area, have been from "conversion." That is, warehousemen have sold government-owned or government loan wheat, presumably believing that when the owner called for delivery, they could buy replacement wheat at lower price.

"That 50 cents a bushel anticipated profit was just too much for them," one government official explained to the Senate committee.

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Cuts Milk Flow

(Continued from Page 6)

When this hormone gets into the blood stream it causes smooth muscle within the udder to contract, thus forcing milk out of the many storage places down into the teat cistern where it can be removed. The other hormone has the opposite effect. When it gets into the blood stream it prevents the milk let-down hormone from working, and we say a cow has "held up" her milk. This opposing hormone is adrenaline, and it is always secreted during some emotional upset such as fright or anger. If we are to do a good job of milking, everything possible should be done to discourage secretion of adrenaline and to encourage secretion of the milk let-down hormone.

Milking should be done in a quiet atmosphere where there is a minimum of excitement or disturbance to the cow. Remember a cow holds up her milk not because she is being contrary, but because she has been frightened or disturbed in some manner. Cows are creatures of habit. They respond best under a standard milking routine that is repeated at each milking. They should be milked at the same time each day, in the same stall and by the same method.

Massage Teats and Udder

A most beneficial practice in stimulating milk let-down is to massage teats and udder and milk one or 2 streams of milk out of each teat before the milking machine is attached. Massage can be done with a damp cloth or paper towel, thus cleaning the udder at the same time milk let-down is being stimulated. A separate cloth or paper towel should be used on each cow, and should be dampened in chlorinated water to prevent spread of disease from one cow to another. Temperature of water is of no importance in stimulating milk let-down. Time spent in massaging udder need be no longer than is necessary to clean the udder. This usually takes about 15 to 20 seconds per cow.

Milk let-down is generally more complete where cows are fore-milked in addition to having their udders massaged. One or 2 full hand squeezes of milk should be taken from each teat. Use of a strip cup is recommended as a practical farm method for detection of mastitis.

Benefits derived from massaging udder and fore-milking are illustrated in figure A. Milk flow curve designated as A was obtained by machine milking a cow prepared as shown in pictures 1 and 2. Milk flow curve designated as B was obtained by machine milking the same cow without preparation. Most significant difference between these 2 milk flow curves is in length of time required to milk. Milking time is usually prolonged 1½ to 2 minutes per cow when there has been no preparation before machine is attached. Furthermore, hand strippings are nearly always higher and yields more variable.

Do Milking Promptly

Milking machines should be attached shortly after cows have been prepared. Milk let-down lasts only 7 to 8 minutes. Therefore, if a cow is not milked within that period she probably won't be milked dry. An example of what happens when milking is delayed is shown in figure B. When there was an 8-minute delay between beginning of milking and preparation of cow (B, figure B), the time required to milk was prolonged, yield was decreased and hand strippings were increased. With most cows there can be no more than a 3-minute delay between preparation and beginning of milking, without affecting milk flow.

Another important consideration is length of time milking machine should be left on the cow. There are some dangers involved in leaving the machine on too long. When milk stops flowing thru the teat channels, negative pressure from milking machine extends up into the udder. This draws the soft tissues together at base of teat, and causes a rubbing action with each pulsation which results in irritation and possible injury to tissue.

Ideally it would be best if teat cups were removed as soon as milk stops flowing. However, it sometimes is difficult, particularly for an inexperienced milker, to determine when a cow is thru milking. Consequently, some attempts have been made to milk cows on a timed basis, allowing 3 or 4 minutes a cow. Advocates of this pro-

gram have claimed that all cows can be trained to milk out in this time.

This plan is appealing, but is impractical because there is too much variation among cows. Observations in the dairy herd at Kansas State College showed that some cows would milk out in 2 minutes, while others require as much as 7 or 8 minutes. About 25 per cent required more than 4 minutes.

Not only were there variations among cows, but the same cow would vary in different stages of the lactation period. Approximately one-third less time was required to milk a cow toward the end of lactation than early in lactation when she was giving more milk. Efforts to train slow milking cows to milk out at a faster rate have failed. Some cows are slow milkers because teat canals are extremely small, and no amount of training will overcome this anatomical handicap.

Rate of milking appears to be an inherited characteristic. Differences have been noted between breeds in their rates of milk flow. The fastest rate of flow, on the average, is obtained from Holsteins, followed by Jerseys, Ayrshires and Guernseys, in that order. Of course, there are fast and slow milking cows in all breeds.

Observing dairymen have noted there are differences between daughters from different bulls. For example, one bull used in the Kansas State College herd sired 10 daughters whose average milking time was 3 minutes, whereas another bull sired 7 daughters whose average milking time was 4.7 minutes. Thus, it seems reasonable that fast uniform milking must be accomplished primarily thru breeding and selection, and not by so simple a measure as adoption of a certain milking procedure. Because of existing variations among cows a milking machine operator must study each cow and learn by experience when she is thru milking.

Minimize Hand Stripping

Toward end of milking period, as rate of milk flow subsides, operator should pull down on claw, as shown in picture 3, holding steady pressure for about 30 seconds. This straightens out ducts and teat canals thru which milk must flow and in many instances eliminates hand stripping. Massaging udder with a downward motion may help in machine stripping some cows. Hand stripping should be minimized, and may be eliminated entirely with many cows. Leaving small amounts of milk in udder has very little effect on either butterfat test or milk yield over a lactation period. It is advisable, however, to hand strip cows that have mastitis or previous history of mastitis.

In summary, the following rules should be helpful in developing better milking practices:

1. Milk cows at regular intervals.
2. Avoid unusual disturbances during milking hours.
3. Follow same routine procedure at each milking.
4. Massage and clean udder with a cloth or paper towel dampened in chlorinated water.
5. Foremilk 1 or 2 full hand squeezes of milk from each quarter into a strip cup.
6. Begin milking within 3 minutes after preparation of cow.
7. Learn how long it takes to milk each cow and remove machine as soon as milk stops flowing.
8. Machine strip by holding steady pressure on claw.
9. Hand strip cows with udder trouble.

Pounds of Nitrogen

Fertilizer mixtures given in the January 5 Kansas Farmer story, "Fertilizer Proves Value in Use," page 8, refer to pounds of nitrogen, P₂O₅, and K₂O per acre.

New Farm Calendar

Minneapolis-Moline Company announces their new farm calendar-catalog for 1952. The new issue illustrates farm machinery manufactured by the company and includes features on soil conservation and safety. For your copy, just write post card to Farm Service Editor, Kansas Farmer, Topeka.

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Have You Heard?



Notes on New Products and Folks Who Make Them

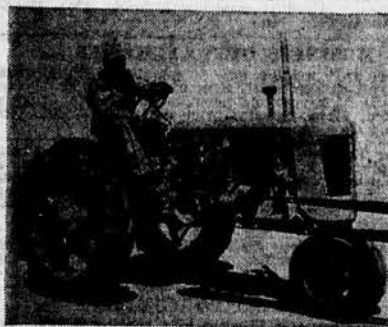
A NEW IMPROVED "VA" series of tractors will be featured in 1952 by the J. I. Case Co., Racine, Wis. Other new equipment items which will be described to you in this column this year include: magnetic table for the Case Hammer Mill; Case Wide-Tread Wagon; Portable Case Latch-On Hammer Mill; SP12 Combine and 15-Foot Cutter Bar.

The VAC general tractor is versatile—with plows, harrows, planters, cul-

Ashland, O. "All you need to do is clip the hair from around the horn buttons and apply Pol with a small brush (comes with the package). Horn buttons dry and peel off. No shock, no pain, no runny sores. . . . Costs about a nickel a horn."

Lazy H is a new casual ranch-style shoe, developed by C. H. Hyer and Sons, Inc., Olathe, oldest makers of cowboy boots in America. Lazy H is made of choicest leathers tanned by a special process into glove-like softness and is fully leather-lined. The shoe is good for anyone who wants comfort of a cowboy boot plus conventional appearance.

Series 106 "Farm Size" Roller Mill is a recent addition to the Peerless line of roller mills. It is a low-cost, heavy-duty mill designed to fit the



tivators, posthole diggers, loaders; does 100 jobs on the farm. In addition to field work, it can dig, grind feed, grade roads, clean ditches, plow snow, load manure and saw logs.

Wrap-On Cable is a new insulation product that eliminates possibility of frozen pipes, says Himmelblau Associates, Inc., Chicago. "It has been proved



that Wrap-On Cable is able to withstand temperatures of 35 degrees below zero," says the company. For details write to 5411 W. Harrison, Chicago.

Minneapolis-Moline Company, with its recent expansions, is celebrating its 127th year of progress in the farm equipment business. For many decades the company (and the organizations recently consolidated) has been a leader in development, production and sale of farm machines.

Using Pol for dehorning cattle is quicker, easier, safer and more humane, says Dr. Hess and Clark, Inc.,



needs of the average farm, ranch and dairy, says Peerless Machinery Co., Joplin. The Series 106 crimps up to 50 bushels and cracks up to 100 bushels of grain per hour. Requires only up to 3 H. P. motor for power. It is equipped with the operational and construction features of the larger capacity Peerless mills.

Pulvi-Mulcher, shown below, enables one to pulverize, harrow, mulch and pack 25 per cent more land per day. The addition of this new 10-foot size Pulvi-Mulcher to its growing line of farm tools is announced by the Brillion Iron works, Inc., Brillion, Wis. The new model has heavy-duty, spring-tooth harrow assembly floats, independent of front and rear rollers. This allows Pulvi-Mulcher to follow uneven ground contours, thru ditches and over ridges. Four sturdy skids assure a constantly uniform working depth. Pulvi-Mulcher can be uncoupled and converted into 5 other implements—single packer, double packer, harrow, packer-harrow and harrow-packer.



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Faster GROWTH

Even With Vitamin B₁₂ and Antibiotics In The Feed

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REN-O-SAL helps chicks gain weight 15% faster as proved by tests with 90,000 chickens. Chicks mature quicker at heavier weights. They start laying up to 15 days earlier, and have sufficient weight to help them through the laying season. Additional tests show that REN-O-SAL produces faster gains even with Vitamin B₁₂ and Antibiotics in the feed.

PREVENTS CECAL COCCIDIOSIS—When dosage is increased, REN-O-SAL

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Hearty Congratulations To Award Winners

MANY Kansas farm people were recognized for outstanding service in various phases of agriculture during annual Farm and Home Week, at Manhattan. Here is a summary of the awards:

Edward Oborny, of Bison, and Wesley Sylvester, Milford, were named premier seed growers for 1951. Awards were made for outstanding production of certified seeds.

Winners of the 1951 Kansas Poultry Project were divided into 3 divisions. Division I is U. S. Kansas Certified

Flocks; Division II is U. S. Kansas Approved Flocks, and Division III all other flocks that produce eggs on a commercial basis.

Division I: Mr. and Mrs. Oliver Klein, Clay Center, 1st; Mr. and Mrs. George Eisele, Altoona, 2nd; Mr. and Mrs. O. W. Lacey, Greeley, 3rd.

Division II: Mr. and Mrs. Clarence Dosien, Valley Center, 1st; Mr. and Mrs. Elmer L. Reep, Wichita, 2nd; Mr. and Mrs. R. D. Prather, Kincaid, 3rd, and Mr. and Mrs. Guy Hanney, Junction City, 4th.

Division III: Mr. and Mrs. Menno Koehn, Halstead, 1st; Mr. and Mrs. Elton Allen, Soldier, 2nd, and Mr. and Mrs. Leo Wendling, Halstead, 3rd.

Ten Kansas 4-H Club members were named district winners in a dairy project contest sponsored by the Holstein-Friesian Association. Club members honored, their home town, 4-H Club, and dairy district, are: Marjorie Lee Hubbard, Emporia, Chamness 4-H Club, Capitol district; Francis Grillot, Jr., Parsons, Sunflower 4-H Club, Southeast; Maida Tinsley, Canton, Live Wire 4-H Club, Ark Valley; Amos Hann, Jr., Udall, Akron 4-H Club, South Central; Vernon DeWerrf, Ellinswood, Comanche Lucky 4-H's, West Central; Dale VanHorn, Wellsville, Full O'Pep, East Central; Arlyn Peterson, Waterville, Community Builders 4-H Club, North Central; Robert Ackerman, Sabetha, Busy Jayhawkers 4-H Club Northeast; Lester Danning, Hays, Buckeye Junior Farmers, Northwest; and Thomas Olson, Bavaria, Bavaria Live Wire 4-H Club, Central.

Maida Tinsley, Ark Valley district winner, and Dale Van Horn, top 4-H Holstein dairy member in the East Central district, were selected as state winners and are being entered for national honors.

Ten farm families who have been members of Kansas farm management associations 20 years were honored guests at a dinner during the week. The farm families recognized were Mr. and Mrs. George F. Schols, Frankfort; Mr. and Mrs. George Gemmell, Cottonwood Falls; Mr. and Mrs. George Ungerer, Marysville; Mr. and Mrs. Fred Stryker, Blue Rapids; Mr. and Mrs. Asa C. Hill, Wakefield; Mr. and Mrs. Edward E. Chase, El Dorado; Mr. and Mrs. J. Roy Cooper, Pratt; Mr. and Mrs. Herbert Feldhausen, Frankfort; Mr. and Mrs. M. E. Rohrer, Abilene, and Mr. and Mrs. A. T. Hoover, Detroit.

Marilyn Veitman, Salina, won the Kansas 4-H cherry pie baking contest. Barbara Zink, Dodge City, was 2nd, and Marilyn Collins, Piqua, 3rd. The winner competes in the national contest at Chicago, February 21.

How They Learn!

A small child learns by gaining skills with his hands and toes and by soaking up the habits and attitudes of those around him. He learns more thru trial than error, more thru pleasure than

pain, more thru experience than suggestion, more thru suggestion than direction. He learns thru affection, love, understanding and by doing and being.

Catch That Hen

Quickest way to "spot" cull chickens for dressing or selling is to feed them, then grab the last ones to come up for feed. I have found the last chickens to come for the feed are the ones most scared to eat and usually are a long way from laying.—F. M. R.



IN THE FIELD

MIKE WILSON

Topeka, Kansas
Livestock Editor

PRAIRIE VIEW QUEEN 2ND, a senior yearling Milking Shorthorn cow, owned by John E. and Thelma V. Tate, Horton, was high-producing cow in her class on recent HDIA test. In 365 days, 2 milkings per day, she produced 226 pounds of butterfat.

At the recent National Western Livestock Show and Sale in Denver, W. H. TONN & SON, Haven, purchased a new herd sire, Larry Domino 50th from consignment of Harrisdale Farms, Fort Worth, Tex., was chosen to head their already good herd of Hereford cattle.

BOB ENGLER, son of Mr. and Mrs. Allen Engler, of Topeka, entered the catch-it calf contest in Denver, at National Western Livestock Show in January. Bob was a very lucky boy. He caught a Hereford calf, was a winner in the contest. He will enter calf in the 1953 Denver Show, according to contest rules. Bob also has to correspond each month with contributor of calf. Good luck to you, Bob, in '53!

In the annual Hereford production sale of **HG HEREFORD FARMS**, at Colby, 48 head of cattle passed thru auction for a total of \$47,525, making a general average of \$990. Thirty bulls sold for an average of \$943 and 9 females sold for \$1,192. Sale featured get and service of CK Crusty 38th; 5 of his sons averaged \$1,915. Top bull was Lot 1, CK Crusty 325th, he brought \$2,800, selling to Herman Blach, Yuma, Colo. Top female was Lot 50, HG Royal Heiress 273rd. Purchased by Ed Barnes, Collyer, for \$2,500. Colonel Gene Watson sold the sale.

Three hundred and eighty-two head of **HEREFORD RANGE BULLS** sold for a total of \$258,040 at Dodge City, on February 4. They averaged \$676 per head. A show was held the day prior to sale. Top individual, Lot 359 consigned by Walnut Hill Hereford Ranch, Great Bend, brought top price of \$2,650. He was purchased by Lappin Bros., Jetmore. Champion and top pen of 3 bulls also was consigned from Walnut Hill Hereford Ranch. They went at \$2,500 each to Deck Klett, Las Animas, Colo. Sale was handled by Gene Watson and Freddie Chandler, assisted by men of various livestock presses represented.

Marellbar Indicator, by Imported Cruggleton Allardice and out of imported cow Baulford Lancaster, has been chosen by **WILLIAM THORNE**, Lancaster, to head his fine herd of Shorthorn cattle. This bull was purchased from Marellbar Farms, Libertyville, Ill. This good bull is a dark red 1951 calf. Mr. Thorne has made quite a name for himself in Shorthorn cattle history in Kansas past few years. He has shown and sold top animals in our most recent state sales. He maintains only a small herd of purebred Shorthorns, but they are very select individuals. Each fall Mr. Thorne exhibits his cattle at a number of county and state fairs.

ANNUAL BETTER BEEF DAY, at Horton, will be held at Civic Center on April 12. Hereford, Angus and Shorthorn breeders of this community sponsor this annual event for promotion of better livestock. This is a day looked forward to by 4-H members and FFA members as they get to participate in judging of these fine animals on exhibit by the breeders. This all-breed event was organized 5 years ago, and it has grown from a small group of interested cattle-men up to several thousand farmers, breeders and businessmen. Also an added feature attraction, on the evening of the Annual Better Beef Day, will be a purebred Hereford cattle sale. George Hamilton, William Belden and Al Schuetz are in charge of local arrangements.

The **NORTHEAST KANSAS HEREFORD ASSOCIATION** held their annual purebred cattle sale at Topeka, February 2. Sixty-one head of Herefords passed thru this auction for an average of \$485. Forty-four bulls sold for an average of \$487 and 17 females averaged \$480. Show champion and top bull was lot 23, Premier Cadet 23rd, consigned by Premier Hereford Farms, Wolcott. He sold to J. W. Waugh, Eskridge, for \$1,575. Show champion and top female was lot 58, Premier Marryette 17th, also consigned by Premier Hereford Farms, sold for \$900, going to Eldon Gideon, Topeka. This sale was capably managed by E. G. Becker, Meriden, secretary of this association. Cattle were shown morning of sale and placings were done by George Hamilton, Horton. Freddie Chandler was auctioneer.

WELDON MILLER'S Duroc bred gilt sale, at Norcatur, on February 6, averaged \$90 on 49 bred gilts. Offering was very uniform, well grown and those bred early showed splendid evidence of farrowing good litters.

Top gilt sold for \$145 to T. E. Rider, Atlantic. Second top at \$140 went to Vern Albrecht, Smith Center. Third high-selling gilt at \$125 went to Milton Smith, Colby. Gary Neilan, St. Francis, paid \$112.50 for a good gilt. Three gilts sold for \$110 each. One went to Gary Neilan, one to Myron Coffman, Phillipsburg, and one to Gary Bear, Edson. Some good fall boars and gilts were sold but prices were conservative on these. Top fall boar sold for \$52.50 to H. D. Jensen, Hunter, and 4 fall gilts sold for \$36 each to Herbert Foss, Bison.

Gilts were bred to Mid Century by Fenmar Royal Admiral; Step A Head by Look Ahead and Union Leader by Leader's Pride, 1st Junior boar at Iowa State Fair. Auctioneers were Bert Powell and Tom Sullivant.

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KANSAS FARMER Classified Advertising

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For Trade—Large new modern greenhouse completely stocked, and modern 7-room home in Southeast Nebraska to trade for good farm. Box 56, Kansas Farmer, 912 Kansas, Topeka, Kan.

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Wanted: Horse Hair, tail and mane. Bees wax. Write for prices, shipping tags. Sturges Co., 2630 "N" St., Omaha, Nebr.

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

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Order Promptly. Supply Limited.
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West Chicago Feathers More: Get highest cash prices for your geese 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.

FARMS—MISCELLANEOUS

United Farm Agency's new free spring catalog of farm and country real estate bargains can help you plan soundly for your future security in the country. Good pictures, many states, easy terms, many equipped, growing crops included. For special service, state requirements, desired location. Write for your catalog today. It's free! **United Farm Agency**, 2825-KF Main St., Kansas City 8, Mo.

For Sale: Stock Ranch of 878 acres, 600 acres in cultivation. Modern set of buildings carrying insurance of \$17,750.00. Ideal set-up for stock raising. Sickness causes sale. Three miles from town, eastern South Dakota. Reasonable terms. **Andrew Robertson**, Sisseton, S. D.

800 Acres Kit Carson County, Colo. 330 acres summer fallow wheat. Good improvements. Price \$48,000. Terms. **Louis Miller**, Frankfort, Ind.

For Sale—80 acres in southwest Missouri, near town; good location. Write E. G. Smith, Washburn, Mo.

Farms That Make Money—Want one? Tell us. **Shindler, Deertrail, Colo.**

Farms, Ranches, Businesses, all kinds. **Holman Realty**, Lebanon, Mo.

REAL ESTATE WANTED

Wanted: Farm Land—Improved or unimproved 160 to 320 acres near Lawrence, Kan., on all-weather road. **Barnum-Jordan**, Realtors, 1207 Grand Ave., Kansas City, Mo.

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Don't Feed Sparrows. Make your own trap and catch thousands. Write for details. **Roy Vail**, LaGrange 15, Ind.

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**March 1
Will Be Our Next Issue**

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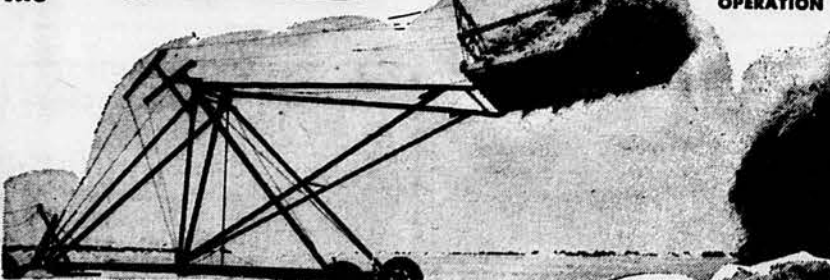
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Sweep • Load • Stack • All With One Machine

Stacking costs less and no other hay tool does it faster or cheaper than the Jayhawk. Attach it to any tractor, truck or jeep in two minutes. Sweep, load wagons, build 25-foot stacks. Handle straw, heavy forage, bundles, almost anything. Dependable for nearly 50 years.

See the Jayhawk Dealer
Write direct for **FREE CIRCULAR**, Low prices.

THE WYATT MFG. CO., INC. JAYHAWK FARM IMPLEMENTS SINCE 1903
400 5th STREET SALINA KANSAS

Classified Advertising Department

KANSAS CERTIFIED SEED

KANSAS CERTIFIED SEED
Buying seed is an important matter. For dependable results and genuine satisfaction... always buy seed certified by the Kansas Crop Improvement Assn. It's for your protection and benefit! It's Certified for Dependability and Kansas Grown for Adaptability. Write for **CERTIFIED SEED DIRECTORY**
The KANSAS CROP IMPROVEMENT ASSN.
Manhattan, Kansas

KANSAS CERTIFIED HYBRID SEED CORN
K1784 K1639 K1585 K1859
All States—\$10.00 per bushel
All Medium Bunches—\$7.50 per bushel
All Large Bunches—\$5.00 per bushel
We pay freight on all orders of 5 bu. or more.
JOHN L. WINGERT & SONS
Dunlap, Kansas

Strawberry Plants—Hardy northern grown, double, inspect, Dunlap, Beaver, Blakemore, Premier, Giant Robinson, Bellmar 20¢ each. 500—\$4.50; 1,000—\$8.50. Giant Gem, Streamliner, Minnesota 1188 everbearing, 100—\$2.25; 500—\$10.00. Gladolus-Florist-Mix, 17 varieties, blooming size, 125—\$1.00. Fresh plants, prompt shipment. Iowa Nursery, Farmington, Ia.

Certified Buffalo Alfalfa Seed, Purity 99.5% Germination 61%. Hard Seed 26%. Arbutnot Bros., Liberal and Haddam, Kan.

One Hundred Bushels Buffalo Alfalfa Seed. Fifty bushels registered. Harvested fifty-one. C. E. Henneberger, Atwood, Kan.

Certified Achenbach Brome Grass seed. Germination 93%. 30¢ pound at bin. E. Edwards, Talmage, Kan.

For Sale—Certified Nemaha Oats, germination 97%, purity 99.50. C. J. Fear, Bala, Kan.

Certified Achenbach Brome Grass seed. Thirty cents pound. Earl Collins, Florence, Kan.

Certified Cherokee Seed Oats for sale, 700 bushels. J. E. Loepke & Sons, Penasola, Kan.

For Sale—Certified Achenbach Brome grass seed. Blumberg Bros., Denison, Kan.

For Sale—Certified Nemaha Seed Oats. Call 1885 W. Hays, Kan.

SEEDS

ALFALFA SEED
Hardy Northern Processed Alfalfa Seed, \$22.50; Sweet Clover, \$7.50; Red Clover, \$23.40; Timothy, \$6.70; Ladino, \$71.40; all per bushel. Brome, \$28.00 cwt. Many other seeds. Lowest direct to you prices, quick service, satisfaction guaranteed. Save money—send postal now for catalog prices, samples. **JACK BOWMAN, Box 415, Concordia, Kan.**

Berry's Sensational new Gro-Coated brand seeds give you greater insurance of better stands and bigger crops. Most amazing farm crop development since hybrid corn. Gro-Coated brand seeds tested and proven on thousands of farms nationwide. Write for free catalog containing full details and special early season bargain prices. Western Alfalfa as low as \$22.50 bu.; Grimm, \$22.70; Red Clover, \$24.30; Sweet Clover, \$7.50; Alsike, \$28.50; Timothy, \$6.85; Ladino, \$122.50 cwt.; Brome, \$28.00 cwt. All prices for Gro-Coated brand seeds. All seeds tested and guaranteed satisfactory. Free catalog and samples. Write today. Berry Seed Co., Box 484, Clarinda, Ia.

King Ranch Bluestem Grass Seed. Planting instructions and prices. Guy Hutchinson, Uvalde, Tex.

PLANTS AND NURSERY STOCK

Red or Black Raspberries—Heavy 1 yr., 10—\$1.00. Apple or Pear Trees, budding varieties 2-3 ft., 5—\$2.25. Concord or Niagara Grapes, 4—\$1.00. New Armored Strawberry, 100—\$2.00. Improved Bush Cherry, 3—\$2.25. Giant Victoria Rhubarb—large, 10—\$1.00. Washington Asparagus 2 yr., 25—\$1.00. Van Houtte Spirea, Forsythia, Deutzia, and Weigela, one each of all four, \$2.15. 2 each \$4.50. All prepaid. Color catalog free. Sims Nursery Farms, Hannibal, Mo.

Frostproof Cabbage and Onion Plants—Large, stalky, well rooted, hand selected. Cabbage—Jersey Wakefield, Charleston Wakefield, Flat Dutch, Copenhagen Market, 200—70¢; 300—\$1.00; 500—\$1.50; 1,000—\$2.50. Onions—White Bermuda, Yellow Bermuda, Sweet Spanish, 300—\$1.00; 500—\$1.25; 1,000—\$2.00; 2,000—\$3.50. All postpaid. Satisfaction guaranteed. Culver Plant Farms, Mt. Pleasant, Tex.

Quick Bearing Fruit and Nut Trees, Shade Trees, Grape Vines, Berry Plants, Everblooming Rose Bushes, and Flowering Shrubs at Money Saving Prices. State and federal inspected. Satisfaction guaranteed. Write for free colored catalogue. East's Nursery, Amity, Arkansas.

Onion Plants—Choice Select Yellow or White Sweet Spanish, Yellow or White Bermuda, 300—\$1.25; 500—\$1.65; 1,000—\$2.65. Postpaid parcel post; 3,000—\$4.75, 6,000—\$8.00. prepaid express. Austin Plant Company, Box 213, Austin, Texas.

Write for Our Free price folder on blooming size tomato plants. Turner County Plant Farm, Rebecca, Ga.

Get My 1952 Price list on vegetable plants. Thirty years growing quality plants. L. P. Legg, Rebecca, Ga.

FLOWERS AND BULBS

Special Offer, 12 Hardy Mountain Grown Azaleas, blooming size (Red, Yellow, White, Pink), 4 Red Spireas, 4 White Hydrangeas, 6 Hardy Ferns, 6 Day Lily Bulbs blooming size, 32 plants in all for only \$1.95 postpaid. Noleridge Nurseries, P. O. Box 26, McMinnville, Tenn.

FERTILIZER

Rock Phosphate. For immediate and permanent results use highest test, finest ground Golden-Gil powdered rock phosphate. Quality guaranteed. Request prices, literature. Dealers wanted. Eaton-Mann Phosphate Company, Joliet, Ill.

ELECTRICAL EQUIPMENT

For Sale and Trade, 32-V batteries, used (new Hastings batteries), windchargers, motors and appliances. \$100.00 and more for your 32-V outfit on new refrigerator or other 110-V appliances. We also trade for Revvells. Tommy Electric and Battery Factory, Minden, Nebr.

Light Plants, Generators, Air Compressors. Low prices. Free catalog. Wellworth Trading Co., 1832 So. Wabash, Chicago 16, Ill.

Hobart 200 Amps D. C. Welding Generator, in A-1 condition. Edward Doebbeling, Ness City, Kan.

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5 Cartload Treated Baler Twine \$13.25 per bale. Also binder twine. Why pay \$3.00 per bale more money. 17 Jewel watch with purchase 100 bales. Big discount to dealers. Bob Stone, Phone 838, Chariton, Ia.

One-Way and Disc Grinder. Costs so little, so easy to operate that you cannot afford to use dull discs. No dismantling. Write for circular. Tri-State Automotive Co., Kimball, Nebr.

Headquarters New-Used Tractor Parts and Accessories. Free 1952 catalog. Merchandise guaranteed. Prompt service. Acme Tractor Supply Company, Lincoln, Nebr.

New and Used Tractor Parts. Write for big, free 1952 catalog; tremendous savings. Satisfaction guaranteed. Central Tractor Parts Co., Des Moines 3, Ia.

Want Dealers to handle top quality baler and binder twine. Central Illinois Supply, Auburn, Ill.

For Sale New D. C. front end change over for D. C. 4-Cass. tractor. H. E. Breckenridge, Woodston, Kan.

FARM EQUIPMENT

Booms All-Purpose Wagon Unloader. Inexpensive, easily attached to your present wagon. Unloads five tons in seven or fourteen minutes. Free literature. Booms Silo Co., Harbor Beach, Mich.

18 Cartload Treated baler and binder twine. Quality guaranteed. Big discount to dealers and jobbers. Bob Stone—National Twine Distributors, Chariton, Ia.

Wire Winder. Roll and unroll barbed wire with tractor power and speed. Low cost. Free literature. Midwest Wire, Dept. 28, South St. Paul, Minn.

Coll Wire, bale ties, baler twine for sale. John Deere Wire \$8.50 two spools. Osborn Hay Milling Company, Oshkosh, Wis.

MACHINERY WANTED

Want Good Allis Baler. Claude Talley, Wetmore, Kan. Phone 147.

FILMS AND PRINTS

3c Deckledge Reprints 3c
Reprints size as negative 3c and oversize prints 4c. 6- or 8-exposure roll developed and printed one each 25¢ each for 35¢. Three 6x7 enlargements for 50¢. Four 6x10 for \$1.00. Your favorite photo copied and 10 billfold pictures 60¢. **Summers Studio, Unionville, Mo.**

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Two Sets of "Deckledge" Prints with every 8-exposure roll finished 40¢. Very finest quality. "Deckledge" reprints 3c each. Jumbo reprints 4c each. Brown Photo Company, 1910-32 Emerson, Minneapolis, Minn.

Jumbo Prints — 8-exposure, 35¢. 12-exposure, 50¢. 16-exposure, 65¢. Reprints, 5c each. The Photo Farm, Dept. KF, Box 228, Norfolk, Nebr.

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

DOGS
English Shepherds—Border Collies, America's most useful dogs. Puppies all ages. Both sexes. Choice colors. Faithful workers. Satisfaction guaranteed. We breed and sell our own stock. Fairmount Farms, Cedar Falls, Ia.

Paroled Border Collies, English Shepherds, heifers, watch dogs. Males \$10.00, spayed females \$12.50. 30 days approval. Charles Miller, Shickley, Nebr.

Rat Terrier Puppies. Bred for ratters. Crusaders Kennels, Stanford, Kan.

RABBITS AND PIGEONS
Earn Up to \$400 monthly raising Angora or New Zealand Rabbits. Plenty markets. Particulars free. White's Rabbitry, Newark 71, O.

REMEDIES—TREATMENTS
Latest Methods treating Piles, Fistula, Colon-Stomach disorders. Write for free book. McCleary Clinic and Hospital, E240, Excelsior Springs, Mo.

AUSTRA-WHITES
Production-Bred Austra Whites. Spectacular layers, fast-growing broilers. Super-test egg breeding. High livability, yield. Catalog free. Missouri State Hatchery, Box 243, Butler, Mo.

CAPONS
Started Capons—4 weeks old; special meat breeds; surgically cauponized at 2 weeks. Fully healed, every bird healthy, vigorous, growing. Easy to raise. Beckord's Hatchery, Rolfe, Ia.

DUCKS AND GESE
DeVries Mammoth White Pekin Ducklings will make money for you in '52. Free catalog and special prices for early orders on request. Write DeVries Poultry Farm, Zealand, Mich.

White Embden Geese—Choice breeding stock. Each \$6.00, trio \$16.50. Michael Simon, Farley, Ia.

LEGHORNS
Rice Leghorns—Day olds and 4-week-old started pullets. Egg-rated nationally known strain. Big hens; large eggs. Uniform production. Write for prices. Rice Leghorn Farm, Green Ridge, Mo.

POULTRY SUPPLIES
Warner Floor Brooders—500 chick electric. Also Doughty water fountains, hen size. John B. Gage, Trustee, Green Ridge, Mo.

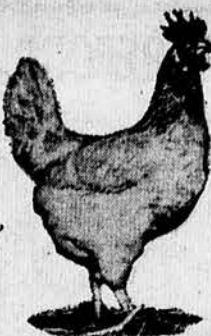
Bundy Electric Incubators—23,000 capacity with hatchery. Bargain price. John B. Gage, Trustee, Green Ridge, Mo.

Hawkins Million 5 Hen brooders, 5 tier, clean, ready to go, priced low. John B. Gage, Trustee, Green Ridge, Mo.

POULTRY—MISCELLANEOUS
Peafowl, Swans, Pheasants, Bantams, Ducks, Geese, thirty varieties Pigeons. John Hass, Bettendorf, Ia.

BABY CHICKS
Chicks on a 30 Days Trial Guarantee. All varieties Missouri approved. B.W.D. bloodtested. Easy buying plan. Low prices. Chick manual free. Missouri State Hatchery, Box 271, Butler, Mo.

Baby Chicks—None better, 30 varieties, blood-tested, healthy and vigorous. Rush postal, beautiful book. Low prices. Albert Fries, Route 12, Salina, Kan.



Hy-Line HYBRIDS

WIN 1st, 2nd and 3rd PRIZES in the 1950-51 Kansas Poultry Improvement Flock Project (Commercial Egg Flock Division)

Congratulations to these cash award winners! Their good management and Hy-Line Hybrid Chickens produced these outstanding prize winning results. The Kansas Association reports shows:

FIRST PRIZE WINNERS: Mr. & Mrs. Menno Koehn of Halstead
SECOND PRIZE WINNERS: Mr. & Mrs. Elton Allen of Soldier
THIRD PRIZE WINNERS: Mr. & Mrs. Leo Wendling of Halstead

WHY Hy-Lines BRING YOU GREATER PROFITS

MORE EGGS
About an extra case of eggs per month per 100 Hy-Lines. In 406 "divided flock" tests for 1950-51, the new varieties of Hy-Lines averaged 11.1 extra cases of eggs per 100 birds housed in 11.2 months over standard-breds and cross-breeds... about an extra case of eggs per month.

HIGH CHICK LIVABILITY
An average of 98.5% livability at 3 weeks of age

That's the livability reported by 3,332 customers last spring on over one million Hy-Line Chicks. This high chick livability means more pullets house... more eggs; more cash income.

LESS FEED PER CASE OF EGGS
Hy-Line feed cost \$1.44 less per case

An analysis of "divided flock" tests shows: When Hy-Lines averaged 65% production, other chickens averaged 50%. At \$4 per 100 pounds for feed, Hy-Lines averaged \$6.93 feed cost per case of eggs; other chickens averaged \$8.37. Hy-Lines' feed cost per case was less by \$1.44 (17%).

HY-LINE RESEARCH
Your assurance of Hybrid efficiency

We test hundreds of experimental hybrid flocks continuously on farms in 19 states... test under varying conditions caused by different climates, feeds, management practices, disease hazards. Only the best hybrids, proven under all these conditions, become commercial Hy-Line Hybrid Chicks.

ORDER YOUR HY-LINE CHICKS NOW

Take advantage of Hy-Lines greater egg laying ability and feed economy. Order your Hy-Line Hybrid Chicks now for delivery on date you want them. Raise Hy-Line Hybrid Chicks this Spring. Order now. But first get more details about Hy-Lines' proven advantages.

Send today for FREE Hy-Line Chick Catalog



J. O. COOMBS & SON

Producing Hy-Line Chicks from Parent Stock developed by Hy-Line Poultry Farms, a department of Pioneer Hi-Bred Corn Company
Box 6, Sedgwick, Kansas

CHICKS ROP SIED

US Approved Pullorum Passed AAAA Quality White Leghorns

New Hampshire: White Rocks: White Wyandottes: Production Reds: Buff Orpingtons: Austra-Whites and Hamp-Whites: also Del-Hamps and Eureka for broilers. Live delivery guaranteed. FREE literature.

ZERKEL HATCHERY, Dept. 5, Humansville, Mo.

RUPF'S SUPERIOR

Dependable Egg Brod Chicks are backed by 48 years of continuous breeding for High Egg Yields. I say "A Profit can be made with a laying hen." Send a postal. I'll tell you how and also send you my 1952 prices. Don't Delay.

Mrs. Carrie Rupf's Poultry Farm
Box 1504 Ottawa, Kan.

Raise Coombs Chicks, this year. Get real quality from old, established ROP, trapnest-pedigree breeding farm. There's a Coombs Chick to fit your needs. White Leghorns, Austra-Whites, White Rocks, Coombs White Leghorn Chicks, 250-322 egg sired for 30 years back. First generation chicks from cross of two strains. Real strain-cross vigor gives wonderful boost to livability; production. Outstanding white-egg layers. Coombs Austra-Whites. Top quality ROP breeding both sides family. High speed layers. Real crossbred vigor. Kansas State College Strain White Rocks. 100% fast feathering. Rapid growth. Excellent layers. High quality meat birds, all ages. Ideal dual-purpose strain. Coombs chicks, U. S. Pullorum Passed. Bargain cockerel chicks. Thousands weekly. Free circular. Write today. Coombs & Son, Box 6, Sedgwick, Kansas.

Best Quality AAA and AAAA chicks. Fast broilers. Profitable layers. 100% pullorum tested. New Hampshire red, White Rock, Barred Rock, Wyandottes, Production Reds, Austra-Whites, Large Type White Leghorns, \$9.95 per 100. Heavy cockerels, \$7.90. Pullets, \$14.95. Hybrid Cockerels, \$3.95. Leftovers, \$2.95. Free catalog, 100% alive. Pleasant View Hatchery, Gerald, Mo.

Assorted Heavies, \$6.80. Reds, Barred, White Rocks, Hampshires, Australorps, Wyandottes, \$7.80, pullets, \$12.85. White Leghorns, Austra Whites, Minorcas, \$8.80; pullets, \$14.95. Leftovers, \$4.85. Assorted, \$3.95. Odds, \$2.95 as available. P.O.B. as available. Hi-Grade Chicks, Deshpwater, Mo.

White Leghorns, Austra-Whites, White, Barred Rocks, Hampshires, Hamp-Whites, Wyandottes, Reds, \$8.95; pullets, \$12.95; heavies, \$4.85; mixed \$6.45; locker special, \$3.95; 100% alive. P.O.B. as available. Hi-Grade Chicks, Deshpwater, Mo.

DeForest Blueblood Chicks, broiler and egg breeds and crosses. Hatching year around. Broad-breasted Bronzes, Beltsville White Poults. Guaranteed livability. DeForest Hatcheries, Box E, Peabody, Kan.

Superior Chicks, eggs, Jersey Giants, Buff Minorcas, Silverlaced Wyandottes, Anconas, Buff Orpingtons, other leading breeds. Literature. Thomas Hatchery, Pleasanton, Kan.

180 Chicks given without cost—to prove Greater Profits. 21 generations of 300 to 355 egg record bred chicks. Bockenstette's, Sabatha, B-22, Kan.

BREEDING FARM QUALITY CHICKS

PRICED LOW 1/3 LESS

You start with breeding from one of America's finest pedigree breeding farms with these AAAA chicks in your laying house. Product of over 25 years trapnesting & a million dollars investment.

260-340 EGG BREEDING
New purebred SNOW-WHITE-EGG strain crosses; contest-proved Leghorns, Rocks, Hampshires and crossbreeds. Also Chicken-of-Tomorrow Contest winning broiler strains. DISCOUNTS FOR EARLY ORDERS. Write

Catalog FREE

GREAT PLAINS HATCHERIES
WICHITA, KANSAS

MORE MONEY MAKERS WITH DeFOREST
U.S. APPROVED PULLORUM PASSED

BLUEBLOOD CHICKS
BROILER AND EGG STRAINS AVAILABLE YEAR ROUND PURE AND CROSS BREEDS... MEAT AND EGG STRAINS

Master Control Breeding Assures Chicks That Live and Grow Turkey Poults in Season

ORDER NOW OR WRITE TODAY

DeFOREST
Box K.F., Junction City, Kan., or Peabody, Kan.

Wonderful POULTRY BOOK
FREE Tells all about our FINEST BABY CHICKS and started chicks, sexed or non-sexed, blood-tested, healthy and vigorous. 30 varieties and crossbreeds, also Turkeys, mature fowls and hatching eggs. Rush postal for FREE BOOK AND PRICE LIST.

GREAT WESTERN HATCHERY, Box 34, Salina, Kansas.

SCHLICHTMAN'S EGG BRED NEW HAMPS
English Type WHITE LEGHORNS \$11.90
Rocks, Reds, Wyandottes, New Hamps, Austra-Whites
Also Sexed and Started Chicks
FREE CATALOG explains 2-week replacement guarantee. U. S. Approved. U. S. Pullorum Clean.

R.O.P. FOUNDATION BREEDING
SCHLICHTMAN HATCHERY, Appleton City, Mo.

TURKEYS
TURKEY POULTS
Broad Breasted Bronzes and Beltsville Whites. Championship bloodlines in national and dressed shows. Tube tested. Low-cost gains, early maturity, higher market quality. Superior broiler breeding. Early savings now. Circular free. **COLONIAL TURKEY HATCHERY, Box T, Lamar, Colo.**

HOGS**POLAND CHINA SALE****February 23**Sale Barn
Osage City, Kansas**40 HEAD****Bred Sows and Fall Boars**

Selected from the following herds:

NEAL GRAHAM, LeRoy
ALBERT MORGAN, Alta Vista
HAYN BECK, Junction City
KANSAS STATE COLLEGE, Manhattan
GLEN WISWELL, Spring Hill
J. H. SAYLER & SONS, Quenemo
C. R. ROWE & SON, Scranton
RAY SAYLER & SONS, LeComptonShow at 9:00 A. M. — Sale at 1 P. M.
\$25 prize money offered for judging contest winners.For catalog write
RAY SAYLER, Sec.-Sale Mgr.
LECOMPTON, KANSAS
Mike Wilson, Auctioneer**MID-KANSAS-NEBRASKA
Poland China Breeders'
SHOW AND SALE****February 29**

FAIR GROUNDS

BELLEVILLE, KANSAS**41 BRED GILTS****Fall Boars and Fall Gilts****JUDGING CONTEST AT 10 A. M.****SALE AT 1:00 P. M.**Classes for 4-H, FFA, G.I. and Adults
Awards to the winners.
Offering includes daughters of Nebraska grand champion and Kansas grand champion of 1951. Also other top individuals from some of the leading herds in Nebraska and Kansas.For catalog and information write
ARDEN N. KROHN, Secretary
Scandia, Kansas
Paul Davidson, President, Simpson, Kansas**AUCTION--50 SPOTTED
POLAND CHINAS**

Sale in heated pavilion at junction of 160 and 43 highways,

12 miles west of Lamar, Mo.

or 18 miles east of PITTSBURG, KAN., 29 miles north of JOPLIN, MO., and 27 miles south of NEVADA, MO.

30 BRED GILTS—10 FALL BOARS**10 FALL GILTS SELL ON FEB. 26**

They are sired by 2 good herd boars, Silver Light and Smooth Top. These gilts carry the bloodlines of Mike by Beaming the great John Zueri sire and Liberal Prince from the E. W. Raasch herd.

For catalog write to
DENZIL RICE & SON, Liberal, Mo.**4TH. ANNUAL
BRED GILT SALE**

at

Phillipsburg, Kansas**Monday, February 25****Show 10 A. M.—Sale 1 P. M.**

50 head choice bred gilts from the leading herds in Kansas.

**Kansas Spotted Poland
China Breeders' Assn.**For catalog write
H. E. HOLLIDAY, Secretary
Richland, Kansas
For Money in Lots Buy Kansas Spots**NESS COUNTY HOG
BREEDERS ASSN. SALE****Friday, Feb. 29, 1952****Will Sell 40 Head of Hogs**

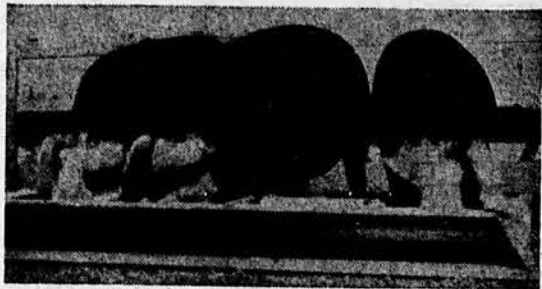
The breeds are: Duroc, Spotted Poland China, Berkshire and Herefords.

Sale starts at 2:00 P. M.**Ness City Sale Barn**For catalog write
WALTER ROTHE
Sales Manager, Ness City, Kan., or
HAROLD ANDERSON
Secretary-Treasurer, Ransom, Kan.E. J. F. STOCK FARMS
For Sale—Registered Spotted Poland Chinas
Have outstanding bred gilts to farrow from February to April, also plenty of fall pigs ready 12-40. Various bloodlines, champion breeding. Double immune. Breeders of Polled Shorthorns.
Earl J. Fieser, Norwich, Kansas**BERT POWELL**

AUCTIONEER

LIVESTOCK AND REAL ESTATE

1220 Fifth Avenue Topeka, Kan.

KANSAS HEREFORD HOG BREEDERS SALE**Mar. 1, 1952****Hays, Kan.****Selling 40 Bred Gilts,
10 Sows with litters,
10 Fall Boars and a
few Fall Gilts.**

This offering has been selected from the leading Hereford hog breeders in Kansas. They are chosen for their bloodlines, type and conformation. They are the kind that will go out and do well for their new owners.

For information and catalog write
RAY RUSK, Secretary-Sale Manager, Wellington, Kansas
Rod Tiller and Irvin Schults, Auctioneers**REGISTERED HAMPSHIRE BRED GILT SALE****March 8, 1952**

at the farm

1:00 P. M.

farm is located 2 miles east and 1/2 mile north of

Morrill, Kansas**Selling 50 Head of Reg. Gilts,
bred for March and April farrow**

These gilts have been carefully conditioned and handled to insure big litters of husky pigs. They are mated to 2 lengthy, fast growing boars. A son of Special Model and a son of Knabe's Special. This offering surpasses last years in quality and size. Also selling several top-notch fall boars.

Write for free catalog. If unable to attend send mail bids.

SUNSHINE FARM, Warren Ploeger & Family

G. H. Shaw, Auctioneer

MORRILL, KANSAS

Mike Wilson for Kansas Farmer

REGISTERED HAMPSHIRE BRED GILT SALE**February 28, 1952**

at 1:00 P. M.

at the farm on highway south of

Randolph, Kansas

50 Head of Select Registered Bred Gilts, 10 Off-marked Bred Gilts and a few Fall Boars. The gilts are tops from our own herd. Plus a few we have purchased that are tops from other leading herds. They are sired by Special Model, Square Molder and Approved Fashion. They are carrying the service of 2 great boars from the Harry Knabe herd of Nebraska. Sterling, a son of Bounding On, a big rugged boar with extra length of body. Adventure, sired by Flashy Trust, this boar is unusually sound and heavy boned. These boars are rated equal to any boars we have used in the past. The gilts have been conditioned properly to insure strong litters and are in good health. They are free from Bang's and will be tested prior to sale.

For catalog write

R. E. BERGSTEN & SONS, Randolph, Kansas

Bert Powell, Auctioneer

Mike Wilson for Kansas Farmer

BAUER'S GREATEST**POLAND CHINA BRED SOW SALE****Saturday, February 23, 1952**

1:00 P. M. — Fairgrounds

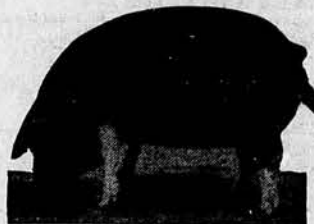
Fairbury, Nebraska

(Just over the line in Nebraska.)

50 CHOICE BRED GILTS

for late February and March farrow, bred to Select Model, Good Luck, the Aristocrat and Jeffersonian Model. Also selling fall boars and gilts, the tops of 150 of the best pigs we have ever grown.

Poland Chinas are heavy winners of all barrow shows. The 1951 Grand Champion barrow over all breeds at the International Livestock Show was a Poland China.

Write for Catalog, **BAUER BROS., Gladstone, Nebr.****HAMPSHIRE Bred Gilts**

Well grown, top bloodlines. Due to farrow in March. Also some excellent fall boar prospects.

C. E. McCLURE
Republic, Kansas**PUREBRED SPOTTED POLAND
SOWS AND GILTS**

Bred to K-State and Jayhawk Jr., to farrow in March and April. Fall Boars and Gilts. Medium type. Choice quality.

CARL BILLMAN, Holton, Kansas**HOGS****Zimmerbrook Farm OIC Sale****REGISTERED BRED GILT
AND BOAR OIC SALE****Wed., Feb. 20, 1952**

1:00 P. M. — BEVERLY SALE BARN

SALINA, KANSAS

We have been showing grand champions for the past 5 years. Gilts mated to grand champion boars.

VERNON ZIMMERMAN
INMAN, KANSAS**Kansas OIC Swine Breeders****STATE SHOW & SALE****Wednesday, February 27**

State fair grounds

HUTCHINSON, KANSAS**SHOW AT 10 A. M.—SALE 1 P. M.**

For catalog write

VERNON ZIMMERMAN
Secretary-Treasurer
Inman, Kansas**US Center****DUROC ASSOCIATION**

Sells at

Phillipsburg, Kansas**Wednesday, February 20****70 head of Registered Durocs
50 Bred Gilts—20 Fall Boars & Gilts**
Here is the place to get your seed stock at farmers prices.For catalog write
VERN ALBRECHT, Sale Manager
Smith Center, Kansas**FOR SALE****REG. DUROC GILTS**

Sired by Pay Way and Emperor, a top-selling son of the great Eureka. They are bred to Modern Star 2nd.

Modern Star 2nd was a member of that national ton litter by Petrack & Kraft. The gilts will farrow the later part of February and March. They have been properly fed and handled and they will make money for the buyer. These gilts are priced to sell.

Inquire at farm 6 miles north and 1 1/2 east of

ISABELL, KANSAS**W. FRED BOLT, Isabell, Kan.**In General Eisenhowers Hometown,
at Cen. Kansas Free Fair Grounds**ABILENE, KANSAS****FEBRUARY 21, 1952**

at 1:00 P. M.

I WILL SELL 60 YORKSHIRES**30 Bred Gilts—10 Boars—20 Bred Sows**

These gilts and boars are sired by MFN Future of Solihull 884, who sells—the 5th place junior gilt of the National Yorkshire Show at Timonium, Md. A littermate of the junior champion gilt at the Missouri State Fair and of the reserve junior champion gilt at the Iowa State Fair. And other show winners will be offered.

All hogs vaccinated for cholera and have negative Bang's tests.

For catalog write **GEO. WM. BURKHOLDER**
Route 1 Abilene, Kan.**REG. DUROC GILTS**

Bred to farrow in March and April. Tops in bloodlines. Also several choice Fall Boars. Vaccinated. Farmer prices.

ARTHUR E. ROEPKE, Waterville, Kan.**HAVEN HOLLOW FARM DUROCS**

Now offering—some of the best gilts we ever raised. Sired mostly by Stylish Wonder and bred to Fancy Velvet, for March litters. Would be fine for 4-H and Voc. Agr. projects. Also fall boars and gilts. Priced right. All bred gilts guaranteed.

G. F. Germann & Son, Manhattan, Kansas**Livestock Advertising Rates**

Effective February 1, 1951

1/4 Column inch (5 lines) ... \$3.50 per issue
1 Column inch ... \$9.50 per issue
The ad costing \$3.50 is the smallest accepted.

Publication dates are on the first and third Saturdays of each month. Copy for livestock advertising must be received on Friday, eight days before.

MIKE WILSON, Livestock Editor
915 Kansas Avenue
Kansas Farmer - Topeka, Kansas

Dairy CATTLE

DAIRY CATTLE

HOLSTEIN * GUERNSEY * SWISS

Registered Wisconsin heifer calves, bulls from world's largest distributor registered with U. S. Ag. Dept. Home of FLYING HEIFERS, we ship by air, low cost, FREE pictures, price folder.

DAIRYLAND CATTLE CO. MILWAUKEE, WIS.

WISCONSIN DAIRY CATTLE

Choice Holstein, Guernsey and Brown Swiss Calves, Yearlings and Springing Heifers. Delivered to your farm, C. O. D.

Deanis R. Grosse, York, Nebr., Bx. 48, Ph. 1419

LOCUST LEA AYRSHIRES



Bulls and heifers sired by Calaver's Stand Aside. Some with preferred pedigrees, from calves to yearlings. Out of dams with high records. Visitors always welcome.

LOCUST LEA FARMS
Mr. and Mrs. John C. Keas, Edinburg, Kan.

BUY AYRSHIRES NOW

America's fastest growing dairy breed. Good individuals, heavy milkers with 4% test and udders that wear. Highest carcass value of any dairy breed. Write for literature or list of breeders near you.

Ayrshire Breeders' Association, 280 Center St., Brandon, Vermont

HIGHER VIEW DAIRY FARM HOLSTEINS

Located 4 miles north of Hays, on highway 183. Featuring the bloodlines of Clyde Hill and the Crescent Estates. We have 125 head in our herd. Serviceable-age bulls for sale at all times. We offer a few females occasionally. Visitors always welcome.

J. D. & E. E. FELLERS, Hays, Kan.

FOR SALE

2 REG. GUERNSEY BRED HEIFERS

Also Heifer Calf out of proven sire with high production.

WALTER W. BABBIT, Oskaloosa, Kansas

REGISTERED GUERNSEYS

For Sale—3 Yearling Bulls from the 3 highest producing cows in the highest producing Guernsey herd in Kansas on DHIA test for 1950.

N. LEROY NEWCOMB, Morrowville, Kan.
Washington 56834

REGISTERED GUERNSEY BULL

For Sale—Born April 8, 1951. He combines the blood of Foremost Royal Valor and Bournedale Rex.

A. N. DIEKSEN, Canton, Kansas

Dual-Purpose CATTLE

RED POLLS

Now offering one 8-month-old bull. A few cows. Would also spare some heifers. Right type, bred right.

If in the market for good Red Polls contact us immediately. Visitors welcome.

W. E. ROSS & SON
Smith Center, Kansas

RETNUH FARMS Have most anything you want in registered Milking Shorthorns. Our record at shows, classifications, testing, speaks for itself.

JOE HUNTER, Geneseo, Kansas

Beef CATTLE

Southeast Kansas All Scotch Shorthorn Sale

March 4, 1952

GIRARD, KANSAS

49 head Horned, 6 head Polled

30 Bulls and 25 Females

Show at 10 A. M.—Sale at 1 P. M.

For catalog write

MELVIN RALPH, Girard, Kan.

FOR SALE—POLLED SHORTHORN BULLS Yearlings and coming yearlings. Dark Reds and roans. Thick, rugged, growthy fellows. Grandsons of Golden Gloster, sire of many champions.

Elvin E. Britt & Sons, Abilene, Kansas

REG. ABERDEEN-ANGUS BULLS

For sale. Also a few Females.

CHESTNUT & RAILSBACK, Quinter, Kansas

12 REGISTERED POLLED HEREFORD BULLS

10 to 18 months old. Also 4 good horned bulls, some heifers, Worthmore, Plato Aster and Bolcaldo breeding.

IRL TINKLER, Gypsum, Kansas

AUCTIONEERS

HAROLD TONN

Auctioneer and Complete Sales Service

Write, phone or wire

Haven, Kansas

Public Sales of Livestock

Aberdeen-Angus Cattle
February 25—C. E. Reed, Wichita, Kan.
February 25—Ed Knell & Son, Carthage, Mo.
February 27—E. W. Thompson & Jesse Dowdy, Sedalia, Mo.

February 28—Western Missouri Breeders' Association, Clinton, Mo.

March 3—Penney & James, Hamilton, Mo. J. B. McCorkle, Sale Manager, AIU Building, Columbus, Ia.

March 28—U. S. Center Angus Association, Smith Center, Leonard Patman, Secretary.

April 2—South East Kansas Breeders' Association, Iola, Kan. Clarence C. Ericson, Sale Manager, Savonburg, Kan.

April 3—Oscar Latske, Junction City, Kan.

April 10—Mid-Kansas Aberdeen-Angus Sale, Hutchinson, Kan. Lloyd Ericson, Sale Manager, Marquette, Kan.

April 21—Thalman and Davis Production Sale, Hutchinson, Kan.

April 22—Northeast Kansas, Hiawatha, Kan. Harry Dandiker, Secretary, Hiawatha, Kan.

May 1—G. W. & Ada C. Caldwell, Harian, Kan.

Guernsey cattle

April 14—Missouri Breeders' Association, Columbia, Mo. H. A. Herrman, Secretary, Eckles Hall, Columbia, Mo.

Dairy Cattle

February 25—Ed Knell & Son, Carthage, Mo. . . Holstein Cattle

February 22—A. S. Fellers, Clay Center, Kan.

May 15—Central Kansas Breeders' Spring Consignment Sale, Hutchinson, Kan. T. Hobart McVey, Sale Manager, Nickerson, Kan.

October 23—Central Kansas Breeders' Fall Consignment Sale, Hutchinson, Kan. T. Hobart McVey, Sale Manager, Nickerson, Kan.

Hereford Cattle

February 22—Sam Gibbs, Clay Center, Kan.

February 29—Western Missouri Breeders' Association, Clinton, Mo.

February 29—Republican Valley Hereford Breeders' Association, Red Cloud, Nebr. Chas. Kort, Sale Manager, Blue Hill, Nebr.

March 3—Marshall County Hereford Breeders' Association, Marysville, Kan. Elmer E. Peterson, Secretary, Waterville.

March 4—Solomon Valley Hereford Association Sale, Osborne, Kan. J. Harold Carswell, Sale Manager, Alton, Kan.

March 5—3-Way Sale, Hutchinson, Kan.

March 7—Cimarron Valley Hereford Association, Hugoton, Kan. Otis R. Griggs, Sale Manager, Box 277, Hugoton, Kan.

March 16—North Central Kansas, Belleville, Kan. Geo. C. West, Sale Manager.

April 12—Kansas Hereford Association, Horton, Kan.

April 16—Sutor Hereford Farms, Zurich, Kan.

April 17—Twin Oak Farm, Moundridge, Kan.

April 30—Square Sale, Oakley, Kan. John Nickel, Sale Manager, Levant, Kan.

October 6—Hiland Stock Farms, Superior, Nebr. Melvin Schlemmer, Owner.

October 6—Beeks-Cleland, Baldwin, Kan.

October 9—Jim Riffel, Junction City, Kan.

October 11—CR Ranch, Brookville, Kan.

October 27—John W. Spencer, Straight Creek Farms, Whiting, Kan. Sale at Marysville, Kan.

October 30—Flint Hills Association, Cottonwood, Kan.

November 6—Lincoln County, Sylvan Grove, Kan.

November 11—Tonn & Fishburn, Haven, Kan.

Polled Hereford Cattle

March 10—Robert Halbert & Lee Fawcett, Miller, Mo.

March 11—O'Bryan Ranch, Hiattville, Kan.

Shorthorn Cattle

March 4—Southeast Kansas all Scotch Shorthorn Sale, Girard, Kan. Melvin Ralph, Sale Manager, Girard, Kan.

Polled Shorthorn Cattle

April 10—Missouri Breeders' Association, Sedalia, Mo. Rollo E. Singleton, Secretary, care State Department of Agriculture, Jefferson City, Mo.

Milking Shorthorn Cattle

February 20—M. H. Peterson Dispersion, Junction City, Kan.

April 6—South Central District All Heifer Sale, Fairgrounds, Hutchinson, Kan. C. O. Heidebrecht, Sale Manager, Inman, Kan.

April 25—National Milking Shorthorn Show and Sale, Springfield, Mo. American Milking Shorthorn Society, Managers, 313 So. Glenstone, Springfield, Mo.

Duroc Hogs

February 19—NOK Duroc Breeders' Association Sale, Belleville, Kan. Ed Blecha, Sale Manager, Munden, Kan.

February 20—U. S. Center Duroc Association, Phillipsburg, Kan. Vern V. Albrecht, Sale Manager, Smith Center.

February 25—Ed Knell & Son, Carthage, Mo.

April 10—Herman Popp, Haven, Kan. Sale at State Fairgrounds, Hutchinson, Kan.

April 19—Kansas Duroc Fall Pig Sale, sale at Moundridge, Kan. Herman Popp, Secretary, Haven, Kan.

Hampshire Hogs

February 28—R. E. Bergsten & Sons, Randolph, Kan.

March 8—Sunshine Farms, Morrill, Kan. Warren Ploeger, Owner.

Hereford Hogs

March 1—Kansas Hereford Hog Breeders' Association, Hays, Kan. Ray Rusk, Secretary, Wellington, Kan.

Poland China Hogs

February 19—Paul Erickson, Herndon, Kan. Sale at Oberlin, Kan.

February 23—Bauer Brothers, Sale at Fairbury, Nebr. Bauer Brothers, Gladstone, Nebr.

February 23—Kansas Poland China Breeders' Sale, Osage City, Kan. Ray Saylor, Sale Manager, Leocompton, Kan.

February 25—Mid-Kansas & Nebraska Poland China Breeders' Sale, Belvidere, Kan. Arden Krohn, Secretary, Scandia, Kan.

Spotted Poland China Hogs

February 25—Kansas State Spotted Poland China Breeders' Association, Fairbury, Kan. H. E. Holliday, Secretary, Richland, Kan.

Yorkshire Hogs

February 21—Geo. Wm. Burkholder, Abilene, Kan.

Hogs—All Breeds

February 28—Ness County Hog Breeders' Association, Ness City, Kan.

Sheep

February 25—Ed Knell & Son, Carthage, Mo.

Trend of the Markets

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

	Week Ago	Month Ago	Year Ago
Steers, Fed	\$36.00	\$36.25	\$38.25
Hogs	18.00	17.75	23.75
Lambs	27.50	25.50	38.75
Hens, 4 to 5 lbs.27	.24	.33
Eggs, Standards33	.34	.42½
Butterfat, No. 182	.75	.68
Wheat, No. 2, Hard	2.50½	2.51	2.54
Corn, No. 2, Yellow	2.01	1.98½	1.78½
Oats, No. 2, White	1.04	1.13½	1.09½
Barley, No. 2	1.53	1.55	1.58
Alfalfa, No. 1	44.00	44.00	39.00
Prairie, No. 1	28.00	29.00	18.50

REGISTERED MILKING SHORTHORN DISPERSAL

February 20, 1952

1:00 P. M. at the sale barn in

Junction City, Kansas

The entire herd of the Peterson & O'Donnell Milking Shorthorns will be sold. 31 Cows, 20 Heifers, ranging in age from 20 months to 1 year. 6 Bulls from 7 to 15 months. 18 head of Steers weighing from 400 to 800 pounds per head. 10 Fall Calves consisting of 7 heifers and 3 bulls. More baby calves by sale day. In this offering there is the blood of such great sires as Hill-creek Gulman, Fair Acres Judge, Brookside Mapperton 72nd, Prairie Darrell, all RM sires. Iford Earl Gynne Imp. Dually Campfire (RM 7 Ex.), River Park Bladen 2nd, Retnuh Roan Robin. Several cows are RM and many carry RM in their pedigrees. Tb. and Bang's tested.

M. H. PETERSON, Owner, Junction City, Kansas

Ross B. Schaulis, Auctioneer

Mike Wilson for Kansas Farmer

SECOND ANNUAL SALE OF

Solomon Valley Hereford Assn.

Osborne Sale Pavilion

Osborne, Kan., March 4, 1952

45 BULLS — 30 FEMALES

These cattle have been selected from 115 entries from 45 of the top herds in the Solomon Valley area. Most of the bulls are serviceable age—the rest are promising prospects. The females include cows, bred and open heifers. The bred heifers and cows are carrying the services of several outstanding herd bulls.

SHOW AT 9:00 A. M. — SALE AT 12:30 P. M.

For catalog write J. HAROLD CARSWELL, Sale Manager, Alton, Kansas

Freddie Chandler, Auctioneer

Don Good Judge

COMPLETE DISPERSAL OF HOLSTEIN CATTLE

On account of my health I will sell at public auction on the farm located 8 miles west and 5 miles south of

Clay Center, Kansas

on gravel road.

Friday, February 22

Beginning at 1 o'clock.

55 Head of High Grade Holsteins

28 Cows, 3 to 7 years old; 15 are in production now, others to freshen by sale day and balance to freshen later.
20 Head of Heifers, 6 months to 2 years old, all calfhood vaccinated.
3 Registered Bulls, one 4 years old, one 3 years old and one 1 year old.
Some baby calves. All above cattle have been tested for Bang's and Tb. within the last 30 days. We are operating a Grade A dairy and these cattle represent the results of 12 years of close culling. We only ask you to inspect them and be here sale day.
Sale of farm machinery and etc. starting at 10 a. m. Lunch on grounds.

A. S. FELLERS (Owner), Clay Center, Kansas

Ross B. Schaulis, Foster Kretz, Auctioneers

WATCH AND WAIT

for



Sale, April 17

HEREFORD

Cows with calves
Bred Cows
Bred Heifers
Open Heifers
Heifer Calves
Bulls ready for service
Yearling Bulls
Bull Calves

(Outstanding herd bull prospects and good range bulls.)

For information and catalog address

PHIL ADRIAN

Moundridge, Kansas

REG POLLED HEREFORDS

Offering 13 smooth, low down yearling and coming yearling heifers, also 6 bulls, all reasonable priced. Start that boy in the registered cattle business with the popular Polls, located 10 east and 5½ miles north of Emporia. Better have a look.

LEE COWDEN, Reading, Kansas

Phone 83F4 Reading

FOR SALE 20 CHOICE REGISTERED

Angus Bulls

Coming 2 years old. Rugged, thick and plenty of scale. Raised together. Inspection invited.

L. E. LAFLIN, Crab Orchard, Nebr.

HORNED HEREFORD COWS

5 young Cows & 2 older Cows, 3 Yearling Heifers.

HARVEY STEGEMAN, Hope, Kansas

BUY MISSOURI ANGUS

Sedalia, Mo., Feb. 27

57 Females and 16 Bulls Sell in the E. W. Thompson and Jesse Dowdy Sale 1 mile west of Sedalia, Mo.

60 Commercial Angus Females

Will Also Sell

Selling 2 sons of Homeplace Eileenmere 487th and 1 son of Prince Sunbeam 29th. All bulls ready for heavy service.

For catalog write to

E. W. THOMPSON, Sedalia, Mo.

Auctioneers—Johnston, Sims

Bert Powell with this publication

ANGUS are a good SOUND INVESTMENT

• MODERN BEEF TYPE. Naturally-hornless Angus rate superior as economical beef producers. They mature quickly . . . convert feed efficiently . . . return a good profit.
• COMMAND PREMIUM PRICES. Packers pay more for Black steers because they dress out a premium carcass and a higher percentage of salable beef.

• LARGER CALF CROPS. Heifers and cows have less calving trouble for Angus calves have smaller polled-shaped heads. Gives you more calves to sell. For information, write American Angus Ass'n, Chicago 9, Ill.

BEEF CATTLE

POLLED SHORTHORN—For Sale both Bulls and Females. Well bred, properly marked and good individuals. Bang's vaccinated. Ready to go out and do good for their new owners. Come see our herd before you buy.

HARRY BIRD & SONS, Albert, Kansas

FOR SALE

3 DARK RED SHORTHORN BULLS Calved in March, 1951. They are thick straight lined rugged fellows. Half-brother to the 1951 State Sale reserve champion heifer.

GLENN E. LACY & SON, Miltonvale, Kansas

Kansas Polled Hereford Bull Sale



Liberal, Kansas
March 10, 1952

Liberal Sales Company Pavilion

SELLING 100 BULLS

Selling Herd Bull Prospects and Serviceable Aged Bulls

"TOP POLLED BULLS FROM TOP KANSAS HERDS"

AUST & ZACHMAN, Ellis
BRANNAN & UMBARGER, Rosel
MARK & ESTHER BROWN, Wilmore
E. G. COEN, Eikhart
ERNEST EGGER & SON, Ellis
ALLEN ENGLER & SON, Topeka
WM. GEISLER, Iuka
GRAVEY BROS., Rush Center
FRITZ KERRS & SONS, Otis
FRED LAMB & SONS, Mackville
OLEN LARSON, Milan
JOHN LEWIS & SONS, Larned
JOHN LUFT, LaCrosse
DONALD LUNT, Iuka
JOE MAES, Bushton

ADELORE MAROTTE, Falco
R. L. MEADOR, Larned
CECIL MEDLEY & SONS, Tampa
R. D. McALLUM, Matfield Green
P. H. McHENRY, Murdock
ARTHUR MOLL, Kiowa
PAUL & GLADYS MOLL, Kiowa
JOHN RAVENSTEIN & SON, Cleveland
WALBERT RAVENSTEIN, Adams
HENRY SCHWALLER, Hays
HARRY SMITH & SON, Richfield
GERHART SPREEN, Ellis
WESLEY WALKER & SONS, Fowler
ANDY WASHINGTON, Antonino
WELCH BROS., Garfield

For top range bulls and herd bull prospects be sure and attend this sale. A banquet and meeting will be held at the Warren Hotel on Sunday, March 9, at 7 p. m. Visitors welcome. (Attend the Cimarron Valley Hereford Association Sale on March 7th, at Hugoton, Kan.)

For information and catalogs write to

VIC ROTH, Sale Manager

Box 702, Hays, Kansas

Judge: Taylor Jones, Holcomb, Kansas

Freddie Chandler, Auctioneer

Mike Wilson for Kansas Farmer



**THE ANNUAL
ROUND UP
SALE!**

**600 HEAD
Kansas City, Mo.**

Feb. 25 & 26---9 A. M.

American Royal Building

"There are always bargains at the Round Up Sale" write for catalog

AMERICAN HEREFORD ASSOCIATION

300 West 11th Street

Kansas City 6, Mo.

PENNEY AND JAMES 10TH ANNUAL ABERDEEN-ANGUS PRODUCTION SALE

at the Homeplace just east of

HAMILTON, MO.

Mon., March 3, 1952

SELLING

20 BULLS and 50 FEMALES

10 sons, 18 daughters sell and 18 females carry the services of Eileenmere 999th (pictured here). 6 bulls selling by Eileenmere 487th. Others by "Top" Eileenmere bred bulls. 4 of these bulls are double bred thru Eileenmere 487th, 3 of them from the successful show herd. 50 females carefully selected from a group of 99 head. They are bred by and bred to these bulls—Eileenmere 999th, Homeplace Eileenmere 52d, Homeplace Eileenmere 155th, Homeplace Eileenmere 500th, Homeplace Eileenmere 657th, Homeplace Eileenmere 367th. 4 open heifers sell with breeding privilege. **NO MORE POPULAR BREEDING OR BETTER OFFERING WILL BE SOLD ANYWHERE**

For sale catalog write to J. B. McCORKLE, Sale Manager, 3500 A.L.U. Bldg., Columbus, O.

PENNEY and JAMES, Owners, Hamilton, Mo.

Orin L. James, Manager

John Mallett, in charge of cow herd.

Earl Jackson, Herdsman

Johnston and Sons, Auctioneers

Bert Fowell with this publication.



EILEENMERE 999-890948

3-WAY HEREFORD SALE

Wednesday, March 5, 1952
12:00 Noon at the Central Sales Pavilion
HUTCHINSON, KANSAS

SELLING 100 HEAD



Including 70 Bred Cows and Heifers mated to top bulls. 12 Cows with calves at side. 7 Open Heifers. 15 Bulls of serviceable age.

Featuring the Get and Service of the following sires:

CK Cascade 6, Charlie Ragland's son of CK Cascade that sold in the 1947 Futurity at \$6,000. JO Duke Pride 11—champion bull of the 1950 Sunflower Futurity, purchased by Ray E. Dillon & Sons for \$12,000. CK Cascade 78, reserve champion bull, 1950 Sunflower Futurity, purchased by Ed L. Crook at \$6,000.

For catalog and information write

GENE WATSON, 2001 N. Jackson, Hutchinson, Kan.

Owners:

Ed L. Crook—Ray E. Dillon & Sons—Chas. W. Ragland

Gene Watson, Auctioneer

Mike Wilson for Kansas Farmer

THIRD ANNUAL CIMARRON VALLEY HEREFORD ASSOCIATION SALE



Hugoton, Kansas

March 7, 1952

57 BULLS — 18 FEMALES

Horned and Polled

This offering consists of herd bull prospects, range bulls, bred and open heifers. Also cows. All selected from top herds from Southwest Kansas. A. G. Pickett, Judge.

For catalog write OTIS R. GRIGGS, Box 277, Hugoton, Kansas
Gene Watson, Auctioneer

Buy HEREFORD, ANGUS & SHORTHORN BULLS Feb. 29

28 Hereford Consignors, 17 Angus Consignors & 1 Shorthorn Consignor Sell

60 Good Reg. Beef Bulls at Clinton, Mo.

(Clinton is just over the Missouri-Kansas line about 75 miles southeast of Kansas City, Mo.)

**Selling 30 Hereford Bulls,
29 Angus Bulls, 1 Shorthorn Bull**

Note—This sale has made a rapid growth over a period of years. Many of Missouri's top herds are in this area. Breeders and farmers have supported the sale over a period of years. The growth of the association has been due to the right kind of bulls of these 3 breeds being offered. There is a bull here for you to head either a registered or farm herd.

For sale catalog write to
WESTERN MO. CATTLE BREEDERS' ASSN., Box 811, Clinton, Mo.
Auctioneer: O. O. McGee, Rich Hill, Mo. Bert Fowell with Kansas Farmer

THE REPUBLICAN VALLEY HEREFORD ASSOCIATION SALE



at Red Cloud, Nebr.
Friday, February 29

Sale starts promptly at 1 P. M.

65 Bulls and 14 Females

A top offering, selected from leading herds of this association. Included will be herd bull prospects. A splendid line-up of coming 2-year-old bulls, senior and junior bull calves and also 9 bred females and 5 open heifers.

FOR CATALOGS WRITE

CHAS. KORT, Sale Manager, Blue Hill, Nebr.

Charley Corkle, Auctioneer

Mike Wilson for Kansas Farmer

Marshall County Hereford Breeders 6th ANNUAL SPRING SALE



Mon., March 3
Marysville, Kan.

At A. L. Breeding's modern, heated sale pavilion, 1/2 mile west of Marysville on U. S. Highways No. 36 and 77

STARTING PROMPTLY AT 12:30 P. M.

64 BULLS 16 FEMALES
60 Horned-4 Polled 14 Horned-2 Polled

CONSIGNORS:

R. C. BARCLAY, Herkimer
JOE BORNHORST, Marysville
DON BREEDING, Herkimer
GERHART H. DETTKE & SON, Marysville
WALDEMAR HANKE, Waterville
HAWKE HEREFORD FARM, Irving
O. W. JONES & SON, Frankfort
DR. C. M. NEWMAN & SON, Axtell
FRED OSTERKAMP, Waterville

ELMER PETERSON & SON, Marysville
E. O. RASMUSSEN, Vilets
JERVIS C. ROWE, Marysville
JOS. F. SEDLACEK, Frankfort
EDW. J. SEDLACEK, Marysville
HENRY SEDLACEK & SON, Marysville
HAROLD STUMP, Blue Rapids
TERRY TURNER, Waterville

The best bloodlines of both horned and polled breeding will be represented in this offering, most of the bulls will be of serviceable age. The female offering will include open and bred heifers. These make up a good lot of Herefords of desirable ages, breeding and individuality.

For catalog write:

ELMER E. PETERSON, Sec., Marysville, Kansas

Freddie Chandler, Auctioneer

Mike Wilson for Kansas Farmer

Don Breeding, President

C. E. Leinweber, Vice-President

MEET US IN MARYSVILLE, MARCH 3



Don't fail to visit our stalls the morning prior to the Marshall County Sale.

We will be on hand as usual with a group of 7 yearling bulls. They are of the usual good type, well developed and well conditioned, hardy bulls that the most critical buyer is looking for. They are ready for service and sired by H. Tone T. by Tone T. 44th, and he is by Hazford Tone 76th, the great register of merit sire. This set of bulls is very uniform and of the finest breeding. The Tone T. cattle have given good account of themselves in every herd they have been in.

For good Herefords come to

TOOTLE HEREFORD RANCH

DON BREEDING, Owner, Herkimer, Kan.

MEET US IN MARYSVILLE MARCH 3

Consigning to the Marshall County Hereford Sale at Marysville C. M. N. Royal Mold 1st, by WHR Royal Duke 52nd, C. M. N. Royal Duke 1st, Royal Mold 6th, and Duke Domino 30th, also sons of WHR Royal Duke 52nd. A son of WHR Symbol 74th. C. M. N. Real Plato Domino, by Real Plato Domino 63rd.

These 7 bulls represent our offering to the annual county sale. They are of the rugged type, well balanced, good bone, breezy looking bulls that will sire calves that will weigh a few more pounds at weaning time. We feel that weight for age is an important factor in beef cattle production.

When in Need of Polled Hereford Breeding Stock Visit

C. M. NEWMAN & SON, Axtell, Kansas



MEET US IN MARYSVILLE, MARCH 3rd

We will be at the Marshall County Sale with what we think is the best offering of Herefords we have produced in some time. 6 bulls all of breeding age. 5 are sons of CK Royal Duke 28th. One is a son of CK Cascade 51st. This is a set of good, growthy, smooth bulls. They are the kind that the rancher desires at the head of his cow herds. The cow herd was founded on CK breeding. Since its origin we have also been using CK bulls. We are also consigning to the NCK Hereford Sale at Belleville our herd sire CK Royal Duke the 28th, and a son of CK Captain.

WALDEMAR HANKE
Waterville, Kansas



MEET US IN MARYSVILLE MARCH 3rd



We are consigning to the Marshall County Sale a bred heifer Spring Hill Lady 11th, she is a daughter of WHR Sufficiency 17th, and carrying the service of our new herd sire L. H. R. Duke Pride 16th. This is the good bull we purchased at the 1951 Hereford Futurity. Two yearling bulls by WHR Sufficiency 17th. Three yearling bulls by S. H. Baca Royal. Also a bull out of a daughter of CK Cascade.

The dams of this offering is very strong in WHR breeding. Our offering is of the usual good high quality and top breeding.

SPRING HILL FARM
HAROLD H. STUMP, Owner
Blue Rapids, Kansas

MEET US IN MARYSVILLE MARCH 3rd

Our Consignment to the annual Marshall County Sale Consists of

4 BULLS AND 2 BRED HEIFERS

The bulls are sons of CK Baca Royal 23rd, and CK Crusty 3rd. CK Crusty 3rd in a half-brother to the Denver grand champion, also to the American Royal champion and to the Crusty bull that is doing such a good job in the HG Hereford Farms at Colby. The two heifers are carrying the service of CK Baca Royal 23rd. They are daughters of Crusty. In the pedigrees of our offering you will find the blood of such bulls as WHR Craftsman 28th, Royal Dundy, Royal Domino and CK Companion.

ELMER E. PETERSON & SON
Marysville, Kansas



Featuring these top herd sires.

CK CRUSTY 70TH

bred by CK Ranch, Brookville, half-brother to 1951 American Royal Champion.

CK ROYAL DUKE 3RD

bred by CK Ranch

P. ROYAL DUKE 7TH

bred by Parcel Herefords, Coldwater, grand champion bull at the 1948 Kansas State Sale. A number of his heifers are being retained in the herd.

Visitors are welcome to see the Get and Service of these bulls.

STRAIGHT CREEK FARMS, Whiting, Kan.
JOHN W. SPENCER, Owner

Meet Us in MARYSVILLE, MARCH 3



1 good yearling bull, by M. H. Royal Tredway 97th. A cow with calf at foot, this is one of our good breeding cows. She is a sale attraction. 1 heifer bred to M. H. Symbol Tredway, our junior herd sire, that we selected from the Moxley herd.

Our offering is well conditioned and will go out and produce good honest cattle for their new owners.

FRED OSTERKAMP
Waterville, Kansas

MEET US IN MARYSVILLE, MARCH 3

Our offering to the Marshall County Sale will be 3 bulls and 2 heifers.

They are all yearlings, and sons and daughters of our great herd sires, ALF Choice Domino 52nd, D. Beau Rollo and ALF Beau 11th.

This consignment represents the very best in Polled Hereford breeding. In building our herd we have been very careful in our selections of sires and breeding females. We are producing the type of cattle that is much in demand today. Don't fail to look us up on sale day. We believe you will like our cattle.

GERHARDT DETTKE & SON, Marysville, Kansas



FOR EVERY ADDITIONAL CAR THE OIL INDUSTRY PUTS UP \$500

YES, for every car you add to those already on the road—someone in the oil industry must invest more than \$500 in new facilities. It takes that much money to provide the producing, refining, and distributing equipment to keep one additional car rolling. And it is a staggering total when you consider that last year the number of cars in operation went up about 2,400,000—to say nothing of additional trucks, busses, tractors, oil burners, etc.

No government subsidy enters into paying the cost of the new facilities to handle this new business. This cost is met by the oil companies themselves—the sound, profitable, going concerns—both large and small. Since World War II members of the industry have spent over 12 billion dollars for new equipment.

During the same period Standard Oil and its subsidiary companies have spent over one billion dollars in this way. An important part of this money has come from re-investment of two-thirds of its profits for new tools and equipment in a vast expansion program.

This investment has also provided research facilities for product improvement. It has provided more and better jobs. In turn, it has yielded new profits that help Standard Oil add to the progress of the industry.

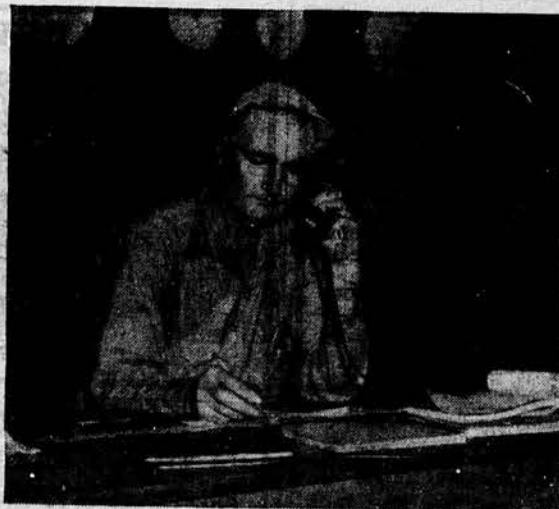
By putting a major part of our earnings back in our business, we are making sure that you will get still more and still better oil products in the future. You will get them even if your requirements should become far, far greater. And you will get quality goods at reasonable prices.

Investment of \$500 in new facilities for every additional car that goes on the road thus yields returns both to us in the industry—and to you, our customers.

Standard Oil Company



IT TAKES A LOT OF MONEY to find oil these days. The cost of finding oil in the ground is now several times greater, per barrel found, than ten years ago. A "wildcat" drilling operation can represent fifty to a hundred thousand dollars, sometimes runs over a million dollars. Yet America's oil reserves are at an all-time high. We have shared in making this possible through reinvestment, in the past several years, of two-thirds of our profits to help provide necessary new facilities.



IT TAKES A LOT OF MONEY to move crude oil from the well to modern refineries and refine it into more than 2,000 petroleum products. Alvin R. Jones, of our Neodosha, Kansas, refinery works on a cracking unit, a part of refining equipment costing millions of dollars. The modern tools and equipment with which our employees work, provided in large part by reinvested profits, help our employees produce more, earn more and enjoy steadier employment.



IT TAKES A LOT OF MONEY to provide the distribution facilities to bring you fine petroleum products through Standard Oil agents like Dan Dowhower of Inkster, North Dakota. He, and thousands of other Standard Oil agents, provide the products you want, where and when you want them. And gasoline today is one of your biggest bargains. It sells at 1925 prices (only the tax is higher)—yet two gallons today do the work that then took three.