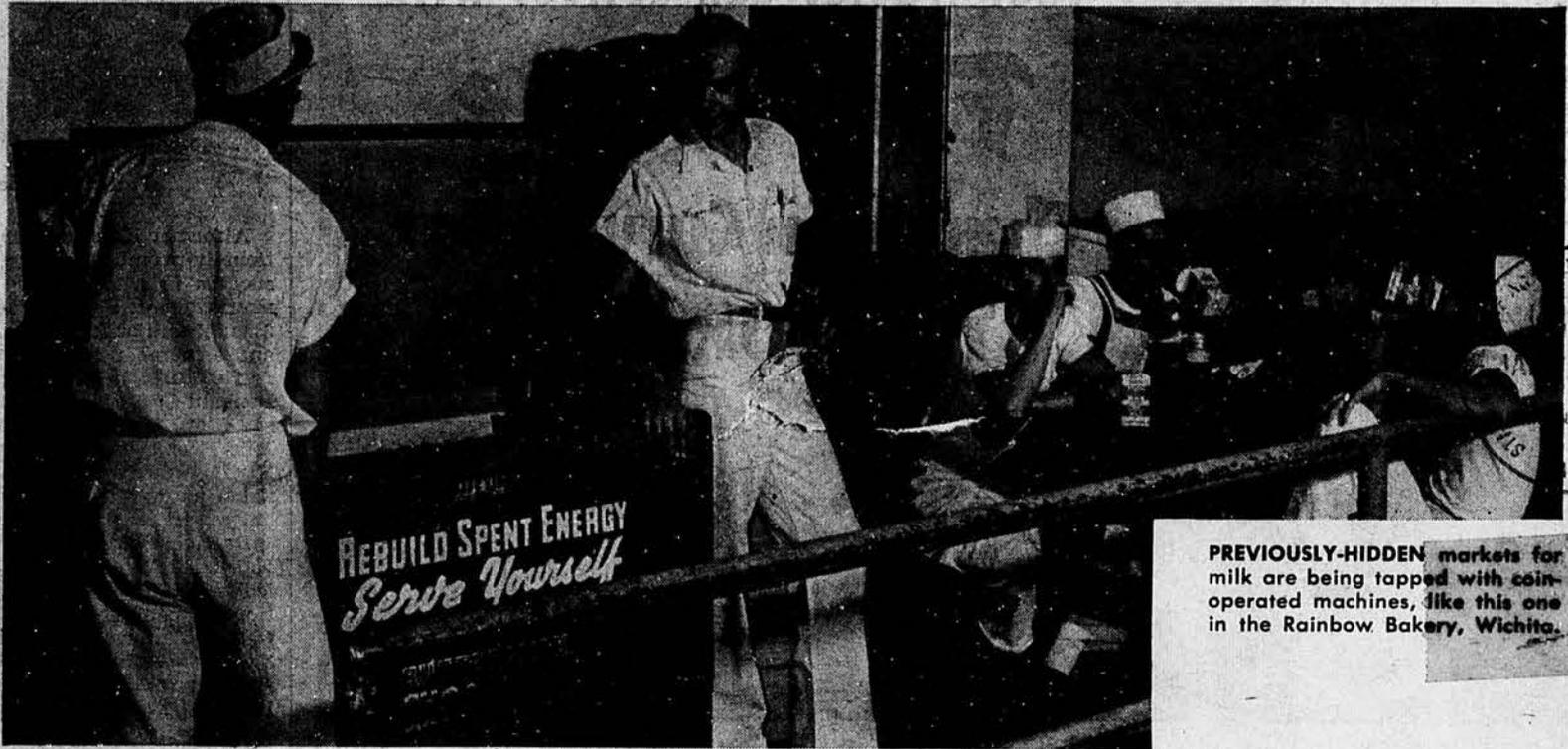


# Kansas Farmer



PREVIOUSLY-HIDDEN markets for milk are being tapped with coin-operated machines, like this one in the Rainbow Bakery, Wichita.

## Silent Salesmen Sell More Milk

Here is proof people will drink more if it is of good quality, kept cold and in handy place

**M**ORE THAN 100 silent salesmen have taken on the job of expanding milk sales in at least 2 Kansas cities, Wichita and Pittsburg. These new salesmen are coin-operated vending machines that are tapping a previously-hidden market in industrial plants, business houses and schools.

Biggest operator in this new field is Putnam Company Milk Vending Service, of Wichita, managed by James J. Cullinane. This company now has 105 coin-operated machines placed in Wichita locations, with as many as 15 machines in a single large plant.

"We hope to have 125 machines placed by next spring," says Mr. Cullinane. "Altho some have been operating in Wichita since 1948, the big spurt in expansion has come within the last year. I have placed half as many machines in the last 8 months as were placed in the previous 4 years.

"We have several sizes of machines in operation," he says. "One machine holds 181 servings and a second holds 350 servings. They are adjustable to serve containers ranging from 1/2-pints to quarts, but most of them are serving 1/3-quart paper containers. Our latest machine will serve regular milk, [Continued on Page 21]



MACHINES LIKE this one in Southwest National Bank, Wichita, dispense both milk and soft drinks. Milk comes in paper cartons, and a separate attachment to the machine dispenses straws. (Pictures courtesy Kane Advertising Agency, Bloomington, Ill.)

- How to Save More Pigs ..... Page 4
- Farm Week in Topeka ..... Page 10
- Farming for a Profit ..... Page 14

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



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**Farm Girl Makes Good in New Field**



Patricia Beezley

A former Kansas farm girl and nationally-prominent 4-H girl is finding success in a new field—institutional management. Patricia Beezley, one of 3 daughters of R. C. Beezley of Garden City and a member of the State Board of Agriculture, is manager of Topeka Pennant Cafeteria. A graduate of Kansas State College in 1943 in dietetics, Miss Beezley's sister, Eugenia (also a KSC graduate in institutional management) worked in the cafeteria under her recent marriage.

Patricia Beezley was an outstanding Kansas 4-H member, winning several leadership honors and a trip to the national encampment at Washington, D. C. One year she and sister Dorothy, a prize-winning dairy foods demonstrator which they presented at the National Dairy Cattle Congress, Waterloo, Ia.

**KSC Sets Up New Test Field**

Kansas State College has a new Belt experimental field approved by state board of regents. Leasing 100 acres of Brown county land near Manhattan is announced. The field is established as a result of a special \$35,000 appropriation by the 1953 state legislature. Soil studies and experiments on all farm crops important to that section of Kansas will be conducted. Most of the farm is Grundy silt loam, the soil type that dominates most of North Kansas.

**New Corn Variety**

A corn variety that will resist Southwestern corn borer seems to be a possibility in the future, say Kansas State College entomologists. Notably fewer girdled and fallen stalks of corn have been found in plots planted from seed of parent stalks that both started to enter but decided not to.

**KANSAS FARMER**

Continuing Mail & Breeze

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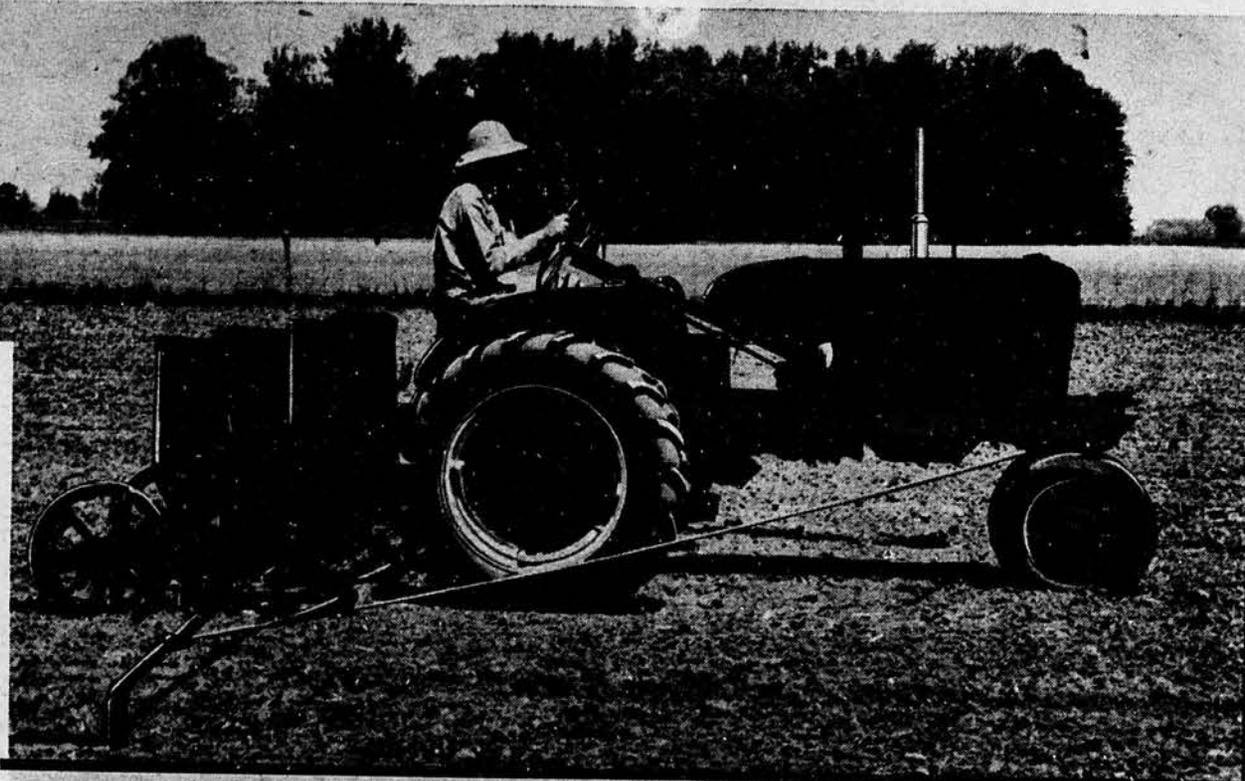
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# Quick-Change 4-Row Farming



You'll cut "get ready" time in half with this famous Allis-Chalmers 4-row team for WD and WD-45 Tractors!

The planter uses the new SNAP-COUPLER. Just back your tractor. Snap! You're hitched. Close the hydraulic lift-arm latches and go. With the cultivator, gangs open like a gate for tractor *drive-in* mounting. For either planting or cultivating, tractor engine Power-Shifts rear wheels quickly to match your row width.

Planter and cultivator are hydraulically lifted for field turns or transport.

Planter has short-drop seed tubes and is ground-driven for accuracy at fast field speeds. It's fully ad-

justable, and can be equipped with fertilizer attachment.

Cultivator is extremely flexible, designed for uniform penetration and thorough, independent cultivation of each row. Wide bearings prevent gangs from dodging weeds, grass clumps or hard spots.

Owners of WD and WD-45 Tractors will appreciate the accuracy and efficiency of these versatile Allis-Chalmers tools. No other 4-row equipment offers so many good-farming features . . . at so low an investment.

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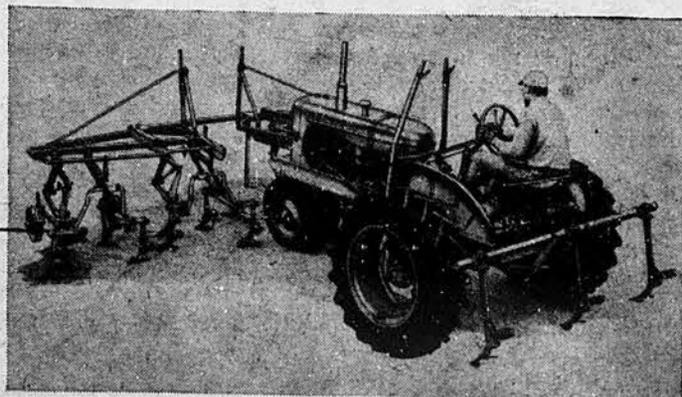
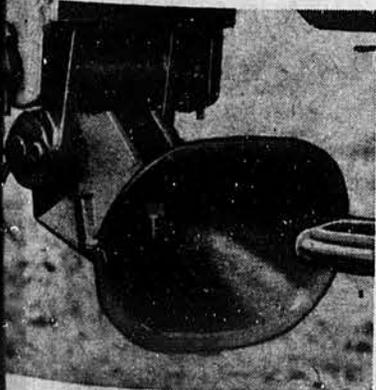
SNAP-COUPLER is an Allis-Chalmers trademark.

### SNAP-COUPLER

makes hitching the 4-row drill planter a "snap!" Wide funnel guides "eye" of implement drawbar into coupler. Close the lift-arm latches . . . and you're ready to go.

### DRIVE-IN, FRONT-MOUNTED CULTIVATOR

saves time, gets you into the field quickly for productive work. Tractor drive wheels are Power-Shifted instantly by engine power to match row widths.





CURRENT HOG problems are discussed by W. Lee Smith, left, Lynn county, and Bruce McLaury, former Lynn county agent now in Miami.

# How to Save More Pigs and Hit the High Markets

—W. Lee Smith

- "Hogs are my most profitable crop," Ward J. Chapman
- "Our program calls for less worry," O. O. and Vic Browning
- "I like good, average-size litters," Earl Parsons

By DICK MANN, Associate Editor, Kansas Farmer

**T**HE COLDER it is the more pigs we save," says W. Lee Smith, of Lynn county. He was explaining his breeding program, which calls for spring pigs to be farrowed in January during what often is the coldest weather. "The answer to saving pigs at that time of year is heat lamps," says Mr. Smith. "The colder it is outside the quicker pigs will learn to stay under the heat lamps, where they are both warm and safe."

Someone stays with the sows during farrowing time to dry pigs off when farrowed and to put them immediately under heat lamps. "We always lose more pigs in fall litters, which come in July or August, because pigs stay close to the sows and more of them get crushed," they report.

Smiths have been cross-breeding the last 3 or 4 years, using Yorkshire boars on Duroc sows. This year, however, they are going back to Duroc boars. "Crossbreds are a little rangier and take about 3 weeks longer to put on the market," says Mr. Smith. "With straight-bred hogs we can get them on the market at 5½ months weighing 200 to 225 pounds. Crossbreds take 3 weeks longer and go to market at about 240 pounds." The Smiths find that planning their breeding program for litters in January, then again in late July or August, gives them a chance to hit the best markets.

Hitting those high markets is important, too, they believe. Last year

they held some of their hogs off the market waiting for a higher price, then ended up by taking a lower one.

Synthetic milk is used as a supplement to help those sows that farrow more pigs than they can nurse. Synthetic milk is used whenever a sow has 10 or more pigs to nurse.

Sanitation is important on this farm. Clean water is always available. A heater is used in winter which increases water consumption.

Hogs are fed on a clean concrete slab that drains off onto crushed rock. All sows used are raised on the farm and the Smiths are very careful where they purchase a boar. They keep a clean place for the hogs to sleep and see that they are free of lice and worms.

During gestation sows get ground oats, commercial meal, plus alfalfa pasture or ground alfalfa hay. When sows are nursing pigs their grain ration is increased (mostly oats) plus commercial pig and sow supplement and alfalfa hay. Sows are fed two times a day.

Pigs are self-fed mineral, supplement and corn free-choice with plenty of feeders being available.

Ward J. Chapman, of Miami county, says hogs are the most profitable project on his farm. He never stint on feed, either. His pigs are started on commercial starter and skim milk and are weaned at about 10 weeks. They continue on commercial mixed feed plus corn free-choice. When they weigh 80 to 100 pounds they are finished out on commercial fattening feed.

O. O. and Vic Browning, Leaveworth county, are following an entirely different hog program. They breed sows for one litter a year, with pigs coming between April 15 and May 1. They market their hogs at 250 to 260 pounds. The Brownings prefer to take a market markdown on their hogs in order to follow the breeding program. "We know we

[Continued on Page 2]

## NEED NATIONAL AGRICULTURAL MUSEUM

Breadbasket of the World—that's the great Midwest farm area. It's the center of greatest agricultural activity and development in America. How about a National Agricultural Museum here? Remember Kansas Farmer issue of September 5, 1953, brought you an editorial, urging your thoughts on the subject.

Such a museum could show how agriculture is the foundation of all national prosperity and well-being. It would give visitors a better appreciation of the importance of farming. Could be an educational institution, too, showing marvelous improvements developed in crops, livestock, machinery, farm living. Kansas, in the heart of the world's greatest agricultural area, would be an ideal place for the museum. What a tourist attraction it could be, too!

What do you think about this idea? A state-wide committee could be appointed to urge Congressional action. Won't you drop a postal card or letter to Editor, Kansas Farmer, Topeka, Kan.?



# Kansas Farmer

## News and Comment

### Time to Farm Week

JANUARY 13, 14 and 15 are good dates to look down on your farm calendar, if you can spare them.

These are the dates for the 83rd annual meeting of the Kansas State Board of Agriculture. The convention will be held in the spacious Municipal Auditorium in Topeka. Secretary Freeland of the Board has planned an unusually fine program for the event, with something to interest every person concerned with the farm.

Freeland has invited the general public to attend sessions of the convention, as well as official delegates of all farm organizations in the state. More than 1,500 are expected.

The program this year features the Minister of Agriculture from Canada, one of the world's leading authorities on the world wheat situation. It also features discussions on crops, livestock, taxes, and a tour of the new Board of Agriculture laboratory. There is a complete program on the convention in this issue, page 10. It looks like a most interesting program. We hope to see you there.

### Happily Surprised Editor

THIS EDITOR ever happily surprised! I flew up to Chicago to help congratulate our Kansas winners attending the 4-H Club Conference, and to write about them. But Wednesday morning they neatly turned the tables on me. Harold Johnson, state 4-H Club leader, invited me to meet with the Kansas delegation—yet acquainted. When I arrived at the meeting place he introduced me by saying Marcia Pop, delegate from Maize, had something to say. Marcia did a very able job of presenting a beautiful 4-H plaque bearing the 4-leaf clover emblem and the words, "Citation for outstanding service to 4-H." She mentioned that the editor of *Kansas Farmer* is a great friend and supporter of 4-H work; that the magazine prints many 4-H articles which are read by thousands; that the editor is an active member of the Kansas State Committee on Boys and Girls Club work; that he takes an interest in the Farm Safety Program and each year awards gold medals to state winners; that he donates to the International Farm Youth Fund (IFYE); that *Kansas Farmer* sponsors the state 4-H writers contest and publishes letters telling of the experiences of 4-H'ers who travel to foreign countries.

The editor is sincerely grateful for the honor of receiving this citation for helping 4-H work in Kansas. It is a pleasure and an inspiration to be connected with 4-H Clubs and Extension service in the fine work they do and the great progress they are making. My

hope is that the membership, which presently is about 30,000, will someday be double that number. You may be sure *Kansas Farmer* editors will continue to do all in their power to encourage such wide growth and development.

### Increase Dairy Sales

IN THIS ISSUE of *Kansas Farmer*—starting on the cover page—you will find the first of a series of articles on what is being done to increase sales of dairy products in Kansas. Purpose of these articles is to show that while the Kansas Dairy Industry is doing a good job, there still is opportunity to expand its markets thru well-planned and well-financed efforts without help from the Federal Government.

### Tribute to the Indian

DICK MANN, associate editor of *Kansas Farmer*, recently was named by the Kansas State Chamber of Commerce to head a national monument committee.

The committee's first task will be to study possibilities of getting Federal designation of Waconda Springs, in Mitchell county, as a national monument to the Great Plains Indians.

The idea of making Waconda Springs a national monument was conceived by Phil Zimmerman, of Topeka, following one of Dick's stories about the springs in *Kansas Farmer*, and reprinted in *The Topeka Daily Capital*. This magazine outlined the Waconda monument idea in the June 6, 1953, issue and since then enthusiasm has spread throughout the state. Mr. Zimmerman reports considerable progress is being made outside Kansas, too. A bill to designate Waconda Springs as a national monument will be introduced in the next session of Congress, Mr. Zimmerman says.

First meeting of the new Kansas State Chamber of Commerce national monument committee was held in Topeka, December 18.



Dick Mann

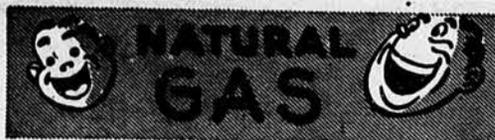
### Well-earned Praise

KANSAS STATE COLLEGE scientists are working constantly to improve Kansas crops, rid them of disease and pest hazards, develop better varieties, make farming in this state more profitable and satisfying. Here is another case of well-earned praise:

O. H. Elmer, who has been working on sweet potato diseases since 1928, drew high praise for his work at the opening session of the Kansas Sweet Potato Conference on the Kansas State College campus early last month. The tribute was by Stuart M. Pady, head of the department of botany and plant pathology.

Elmer, plant pathologist at the K-State agricultural experiment station, was primarily responsible for development of superior varieties such as Red Nancy and Orlist, and this year is reporting on a new variety, Kandee, which not only is resistant to black rot, but gives promise of being the most popular variety in Kansas within a very short time. Released by K-State only last year, Kandee has had wide market acceptance. It yielded better than any other variety grown, and has been found to store better than Jersey-type varieties.

"The development of control measures for stem rot and black rot are so effective, thanks to Doctor Elmer's work, that today these dis-



"Mother always knows when Jimmy is home from school as the family cat is hiding behind the stove."

"Boxer's aide: Well, old boy, I'm afraid you're licked now!"

"Boxer (gazing dizzily across to opposite corner of ring): Yep! Should have landed him in the first round when he was alone."

"Sometimes we all feel like we're at the end of the rope. That's just the time to tie a big knot and hold on!"

"Modern-day Homework: Daughter's hair shampooing, Junior's televising, What about their schoolwork? That's what daddy's doing!"

"Still the essential oil of industry is elbow grease."

...eases are practically nonexistent," Doctor Pady commented.

Doctor Elmer's current investigations are on soil pox, the most serious disease of sweet potatoes at this time.

### Cotton Here?

COTTON farmers in Kansas? Really? That's right. Four Kansas farmers, all Montgomery county residents, were eligible to vote in the December 15 national referendum on federal cotton quotas. Three voted—two in favor and one against. U. S. cotton growers voted overwhelmingly in favor of quotas on the 1954 cotton crop. A vote for control, as you well know, meant a vote in favor of limiting production to a specific number of acres in return for high support prices—90 per cent of parity—on production from these acres.

**Astonishingly Easy:** One sure way to help reduce government spending is to stop asking for government money.

**Never Satisfied:** Fortunately people are never satisfied. About 2 billion dollars were spent in 1953 for research leading to new products and improvements in everything from pins to tractors.

**Leadership:** During the last 20 years, while world population has increased 25 per cent, world food production has inched up a scant 5 per cent. Yet in the United States, with an 18 per cent increase in population in the same period, food production has leaped ahead by 50 per cent, reports DuPont Company. An indication of U. S. farm leadership. Also an indication that U. S. industry is aware of it, respects it.  
*Raymond H. Gilkeson, Editor*



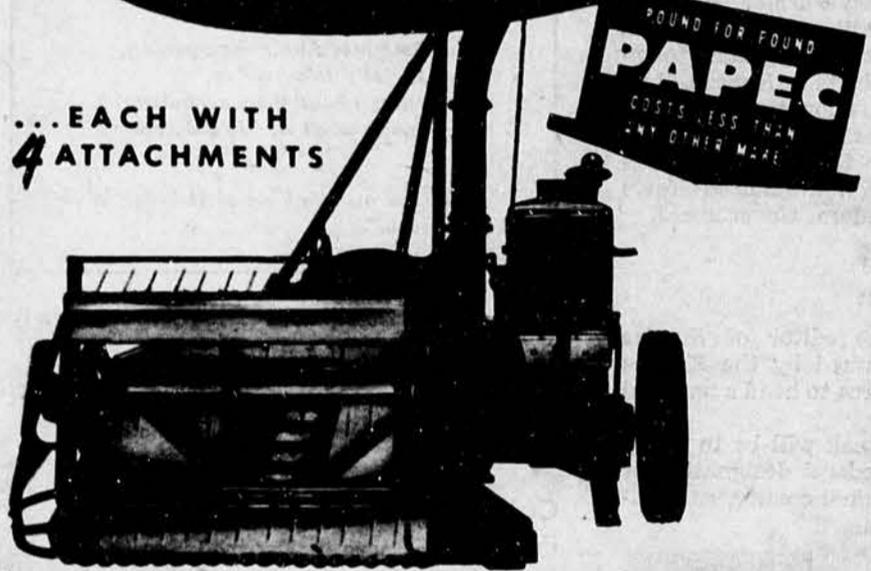
"I would have gotten thru in half the time, but these cute little tykes here asked so many questions."



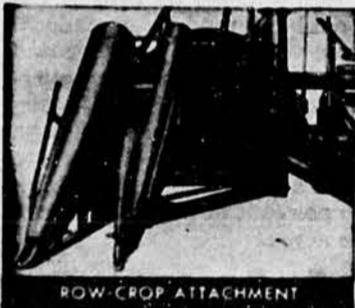
"There's nothing in here but money."

# PAPEC 3 MODELS

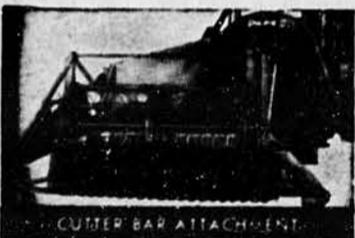
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MINUTE, AND ANY LIFT FROM  
10 TO 300 FEET

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## Vocational Agriculture

By HELEN ANKENY



TWENTY-THREE pheasants were consumed at the annual stag pheasant feed staged November 18 by the Simpson Future Farmers, according to Larry Sams, reporter. The annual event brings together the boys and their dads and other guests who enjoyed the pheasants which were shot by the Future Farmers. A volleyball game followed the banquet, sons against dads. Much to the boys' surprise, the dads were able to hold their own quite easily. Robert J. Severance, Jr., is vocational agriculture instructor.

One hundred Seventy-five samples of crops raised this year by Concordia Future Farmers were on display at their annual crop show and potluck supper held this month for parents. Arthur Carlgren was grand champion and Jim Lewis, reserve. Duaine Sherwood and Delmar Bisnette were awarded blue ribbons for showing tallest corn and tallest sorghum. Bud Trost, president, presided during the potluck supper. Ribbon awards and other prizes were presented winners by Vocational Agriculture instructor, Wilbur Rawson.

Solomon Future Farmers, 12 in number, and their instructor, Clyde Venneburg, took a 10-day trip this fall to Canada in a truck owned and operated by Merle Wiley. Enjoying the trip were Jim and John Wickersham, Morris Rasher, Eldon Janssen, John Willey, Arnold Richards, Edwin Brown, Ronnie Rinker, Gary Ingermanson, Wayne Lamer, Ronnie Belle and Lonnie Morrison.

James Plummer is president of the newly-organized FFA chapter at Chetopa. J. D. Lancaster is vice-president; Junior King, secretary; Bob Davis, treasurer; Ronnie Strouse, reporter and Vernon Hill, sentinel. Mr. Turney is adviser. All boys enrolled in Vocational Agriculture at Chetopa, 27, are members of the chapter. This is the first year Vocational Agriculture has been offered in the Chetopa school system since the course was dropped in 1940.

Among other firsts at Udall high school is the Vocational Agriculture course being offered this year for the first time in the new building. Significant of the popularity of the new course is the fact 32 of the 35 boys attending Udall high school are enrolled. Popular with the 32 boys is Richard E. Weiser, their instructor, Korean veteran and graduate of Kansas State College.

Officers of Udall FFA chapter are: Gary Evans, president; Dwain Rutter, vice-president; Larry Atkinson, secretary; Edward Kuntz, treasurer; Paul Tschopp, student council representative; Don Wall, sentinel and Kenneth Mantz, reporter.

Five new bleachers have been completed by members of Vocational Agriculture classes at Mulvane high school. Material for bleachers which will seat 150 persons, was furnished by the Mulvane Saddle Club. Lee Doyen is instructor.

"Kiowa Chief," purebred Duroc boar owned by the Kiowa Future Farmer chapter, was sold recently at 25 months. Purchased in December, 1951, from a former Future Farmer and American Farmer, Herman Popp of Haven, the boar weighed 45 pounds and cost \$40. When sold, he weighed 750 pounds and netted \$81.88. Records kept by the chapter on chapter-owned sows show 122 pigs were farrowed and 108 pigs raised from the 14 litters, an average of 7 5/7 pigs per litter. The chapter has purchased a boar to replace "Chief" for \$75, "Fanny King 2nd." "Fanny" boasts a strong pedigree.

A popular young instructor among Vocational Agriculture teachers in Kansas this year is Charles Turpin, Jr. teaching his first year at St. Mary high school. Turpin graduated the summer from Kansas State College. He entered the Air Force in 1941 and served as a pilot until his discharge in 1945. He says he is "impressed by the friendliness of the people in St. Mary and by the cleanliness of the town. St. Marys likes Charles Turpin, too.

A project launched by Liberal Future Farmers and their instructor, C. Griffin, have resulted in 94 business men putting up street numbers on the business houses. Gold decal numbers were sold by local Future Farmers.

Among the new Future Farmer chapters in the state is the Ellinwood chapter, organized this fall, when Vocational Agriculture was offered for the first time. Neil DeWerff is president; Danny Wirtz, vice-president; Ray Robl, secretary; Jack McCormick, treasurer; Glen Krueger, reporter; Robert Hammeke, sentinel and Joe Cragun is adviser.

Over 400 people attended open house November 18 of the Vocational Agriculture building of Caney high school. As people were conducted thru the building by Future Farmers and the adviser, Ralph Field, special attention was given to wiring, plumbing fixture installation of tool cabinets and welding carts, all of which were constructed by FFA boys. Over-all dimensions of the cement block structure are 50 x 100 feet. The project cost, \$17,500, was paid by funds accumulated in building fund started about 6 years ago by the board of education. Seventy boys are enrolled in Vocational Agriculture at Caney.

Clay County Community high school bus carried 25 FFA boys on a tour of western states just before school started. E. H. Dimity, Berkeley, California, realtor, went to school in Clay County 50 years ago. The FFA boys and Mr. Dimity met while the bus was in California. "I could hardly believe my eyes when I saw the lettering on the Clay county school bus," Mr. Dimity said. "Had anyone suggested arranging a trip to the West Coast in a school bus 50 years ago, he would have been shocked at sunrise for thinking such a thing. The bus brought back many pleasant memories to Mr. Dimity of his 21 years as a resident of Clay county. Ray Morrison is instructor.

Among the many Vocational Agriculture departments buying the recently-issued FFA stamp was the Ellingham department. FFA officers purchased 10,000 of them for resale to members.

Lowell Goering, a Future Farmer and junior in Moundridge high school is producing broilers in a new 1,000 bird capacity, pole-type broiler house. He plans to produce 4,000 broilers per year. Members of the Vocational Agriculture class, under supervision of instructor Richard Ramsdale, helped to construct the building.

### Save Your Soil!

Topsoil is the lifeblood of any farm. For tips on soil-saving installations and equipment, in a new booklet published by Carswell Mfg. Co., write the Farm Service Editor, Kansas Farmer, Topeka. No charge.

# THEY AVERAGED 3.17 LBS.

**YUM! YUM! Fried Chicken—and over 3 pounders in 9 weeks. These are actual figures picked at random from our records of hundreds of MoorMan customers. How did they do it? They did it with their own good yellow corn—produced right on the farm. MoorMan's CoxiCurb\* Mintrate\* for Starting and Growing Chicks helped release the growth power and energy in that corn.**

## IN NINE WEEKS WITH MOORMAN'S

**Total feed consumed per pound of gain, 2.37 pounds. Total cost per pound of gain, 12.57c.**

**You, too, can get more chicken from less feed if you will multiply the value of the good yellow corn you have right on your farm. The chicken is in your corn. By simply combining 100 pounds of MoorMan's CoxiCurb Mintrate with 200 pounds of your yellow corn, you have the highest energy, lowest fiber chick starter available anywhere. A ration containing less than 3% fiber. CoxiCurb Chick Mintrate is a combination of proteins, vitamins and minerals, designed specifically not only to supplement but to bring out the feed value in your yellow corn. It also contains an ingredient to help lick death losses from that old poultry scourge, coccidiosis.**

**Here are 8 big reasons why it will pay you to feed MoorMan's CoxiCurb Chick Mintrate to your starting and growing chicks this year:**

1. You buy only 1/2 of your chick starter off the place. You have the other 1/2 right in your own corn crib. *Buying 1/2 of the ration from yourself cuts your feed bill in half—saving you freight and sales costs on 1/2 of your chick ration.*
2. Corn and Mintrate make the highest energy, lowest fiber chick starter anywhere—less than 3% fiber. *In fact, fiber has been removed from some of the ingredients in Chick Mintrate.*
3. Your ration is all chick-nourishing feed—no valuable ingredients removed from your grain.
4. You spend less dollars out of your pocketbook—about 1/2 the money you would ordinarily spend.
5. This famous Mintrate now contains an ingredient that helps prevent serious death loss from coccidiosis.
6. Easiest to use concentrate on the market. *Combining corn and Mintrate is simple and easy.*
7. Low cost gains and fast growth proved by hundreds of thousands of MoorMan customers on millions of chicks the past four years.
8. **Special reduced pre-season prices in effect up to midnight, January 30. Ask your MoorMan Man.**

**Buy now for thriftier flocks . . . protected against profit-robbing coccidiosis . . . at lower cost to you. Ask your MoorMan Man about MoorMan's CoxiCurb Mintrate for Chicks, or regular Mintrate for Chicks. He has both. With either you will get greater growth energy out of your own corn . . . outstanding gains at small cash outlay. Thousands of poultry raisers have switched to MoorMan's in the past four years for faster growth of healthier chicks at LOWER COST. Call or see your MoorMan Man today—or write MoorMan Mfg. Co., Dept. J4-1, Quincy, Illinois, for prices and full details.**

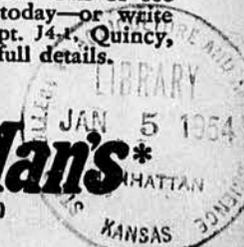


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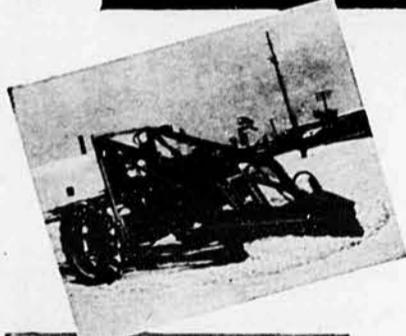
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**4-way**

the rugged, safe, dependable, all 'round hydraulic tractor attachment with 1001 uses.

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Please send me, without obligation, a copy of the American FARM NEWS and additional information on the American 4-WAY. I am especially interested in these attachments:

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**SEND TODAY**  
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**Dwight Hull SAYS . . .**

**Meeting in Topeka of Great Importance to Dairymen**

JANUARY 13 should be a very important day for Kansas dairy farmers. This is the annual meeting date of the Kansas Dairy Association. In the past few dairymen have attended or concerned themselves with this important event. During the past year, however, state-wide and district meetings were held at which the purpose and organization of the Kansas Dairy Association were discussed.

Thru these meetings many dairymen learned this is really their organization, and that they are and have been supporting it thru the "check off" on their products. Formerly the "check off" was taken during June and July. As the result of the concerted efforts of dairymen over the state to support an expanded national advertising program of dairy products, it was voted last summer to make the "check off" on a 12 months basis.

**To Advertise Dairy Products**

True, only a small part of this "check off" is used in Kansas. The greater part is sent to help support the national advertising conducted by the American Dairy Council. But regardless of how much of the money is used in Kansas, you dairymen who pay the bill should be vitally concerned with the affairs of this organization.

Every dairyman who has contributed by means of a "check off" on his products is a member of this organization. You do not need an official notice stating the fact you are a member, nor any special invitation to attend any meetings held by this organization.

We realize many dairymen will be unable to attend, but we would like to urge as many as can to make a special effort to do so. We have a feeling that because it usually is quite difficult for many dairymen to be away at milking time, many important decisions are made that vitally affect the dairy business without the real voice of the dairy farmer.

We, of course, are sold 100 per cent on a strong, up-to-date advertising program for dairy products, but we do not believe the burden should be carried by a few. This is likely to happen unless a careful educational program is maintained in order that every dairyman may appreciate the good an advertising program will do him.

Talking with the average dairyman we find many have unanswered questions and have formed erroneous ideas regarding the "set-a-side" for advertising our products. It seems to us the problem of getting the co-operation of every dairyman in Kansas should be an important problem at the coming meeting of the Kansas Dairy Association in Topeka, January 13.

**How to Avoid Surplus**

The impact of an advertising program supported by every dairyman would be tremendous, and could in due time change the picture of a surplus of dairy products to one in which the supply would not meet the demand. On the other hand, we must not forget our competitors are now and have been advertising extensively, and have been gaining headway in selling their products. If we fail to tell the consuming public of the advantages of dairy products, we will continue with an ever growing surplus.

We were surprised in looking over grocery advertisements to note under the heading of "Dairy Products" the first item listed was a butter substitute. We should meet such competition by advertising the excellent qualities of dairy products to such an extent that buying public will recognize them.

The Kansas Dairy Association needs the support of every dairyman. This is your organization and your business, Mr. Dairyman. Why not make it a point to be at the Jayhawk Hotel in Topeka at 10 a. m. on January 13 and have your voice in this all-important part of your business.

**OFFICERS OF HORTICULTURAL SOCIETY**



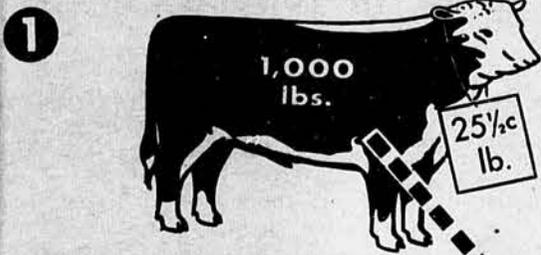
KANSAS State Horticultural Society officers for this year are, from left: Earl Stoughton, Hutchinson, president; Norris Rees, Topeka, vice-president; W. G. Amstein, Manhattan, secretary, and Frank Clark, Coffeyville, treasurer. They were elected at the annual meeting in December of the society on the Kansas State College Campus, Manhattan.

**OFFICERS OF SWEET POTATO ASSOCIATION**



HEADING the Kansas Sweet Potato Association for this year are, from left: John Britt, Manhattan, treasurer; Otto Wendt, DeSoto, vice-president; O. H. Elmer, Manhattan, secretary, and Bernard Lohkamp, Wichita, president. They were elected at the December annual meeting of the society at Kansas State College, Manhattan.

# Why 95c Steak From 25c Cattle?



Steaks from choice beef often cost you over three times the price paid per pound for live choice cattle. Why?

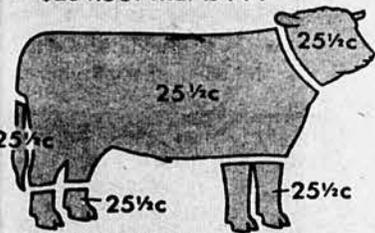
1. Only 60% of a choice steer is carcass beef.
2. Only a small portion of the carcass is steak.
3. There are many necessary costs between meat on the hoof and beef on the table.

## 2 Meat Packer Paid

Let's begin with the purchase of a 1,000 lb. steer (it might be Swift or any one of 18,000 commercial slaughterers).

MEAT PACKER paid \$25.45 (U.S.D.A. AVERAGE PRICE PER CWT. CHOICE STEERS, CHICAGO—WEEK ENDING OCT. 10)

So the 1,000-lb. steer costs \$254.50. That is . . .



25 1/2 c for every pound of meat, and every other pound.\*

\*Hide, Head, Bone, Horn and Hoofs, Blood, Water, Paunch, etc.

## 3 Many Necessary Costs

**The Carcass**  
When that 1,000-lb. steer was dressed, there remained 600 lbs. of carcass beef. That figures:

600 lbs.  $42\frac{1}{2}c$  lb. Wholesale = \$254.50

To get back the total dollars paid for the live steer, the carcass must sell for more than 42 1/2 c per pound.

### Handling Costs\*



## 4 Meat Packer Received

The week following purchase of the steer, this choice carcass beef sold for 42 1/2 c a pound.

(Oct. 13 National Provisioner figures)

600 pounds  $\times 42\frac{1}{2}c = \$255.00$   
Cost of live steer was \$254.50  
That leaves — \$0.50\*

To help pay\* cost of buying, slaughtering, refrigerating, selling, advertising, delivering, processing by-products, shrinkage . . . and a profit, if any, for packer's services.

\*Due to the low value of hides, tallow, etc., during the past months, the total income from by-products is not enough to pay all the necessary costs of buying, slaughtering, selling, delivering, and many others.

## 5 Wholesale Prices of Beef Cuts\*

If the packer cut up the 600-lb. carcass into wholesale cuts, the total carcass must sell for more money to cover extra costs of cutting, handling, wrapping, etc. Here's what each weighed . . . and sold for:

Shrinkage . . . . .	3 lbs.		
Suet (& Kidney) . .	21 "	4c..	\$ .84
Short Plate . . . . .	48 "	14c..	6.72
Flank . . . . .	24 "	14c..	3.36
Foreshank . . . . .	24 "	18c..	4.32
Brisket . . . . .	30 "	35c..	10.50
Chuck . . . . .	156 "	38c..	59.28
Rib . . . . .	54 "	53c..	28.62
Round . . . . .	144 "	48c..	69.12
(Steaks and Roasts)			
Loin . . . . .	96 "	78c..	74.88
Total . . . . .	600 lbs.		\$257.64

\*National Provisioner, October 13, 1953

Meat eaters are unwilling to pay as much for some cuts as for others. That's why over half the meat sold for 4 1/2 c to 38 1/2 c under the 42 1/2 c carcass price. That's also why ribs, rounds, and loin sold for higher prices. Together they determine the total value of the carcass . . . If consumers were not willing to pay more for some cuts, cattle would have to sell for less.

## 6 Retailers' Services Cost, Too

To prepare beef for sale to the consumer, the retailer has many costs—

- Rent . . . Help . . .
- Taxes . . .
- Refrigeration . . .
- Supplies . . .
- Lights . . .
- Advertising . . .
- Store Equipment . . .



and losses due to trimming, shrinkage, etc.

... and that's the "Why" of 95c steak from 25c cattle!

### COSTS MAKE SPREAD

We hope that the story above helps you to understand the spread between steer prices and steak prices.

Choice live cattle and choice dressed beef were used in the example because retailers sell almost as much fresh beef grading choice as any other three grades.

Even a greater spread is necessary in the case of lower beef grades such as Utility, Canner and Cutter. Because . . .

The dressing percentages are much lower than top quality cattle. There's less carcass beef per critter. 2. In the carcass itself, there is less eatin' meat . . . more bone. This is especially important—lower grades of beef often

sell to the best advantage when made into boneless beef.

Moreover, cutting and boning must be done by highly skilled labor. More time, labor, equipment, and supplies are needed to process boneless beef into attractive, appetizing products. These extra costs increase the spread in prices between the live animal and the finished product.

Efficiency in marketing cannot be measured by spread. Some products demanded by consumers require more processing than others. This additional service widens the spread. But, by satisfying more meat eaters, you also widen the market for beef. That's another WHY of spread!

### "LIVESTOCK PRICES . . . and What Causes Them to Change"

That is the title of a booklet which we have just prepared. It explains in clear, simple language and pictures why the prices of hogs, cattle, calves and lambs go sometimes down, sometimes up. If you are interested in livestock, you'll be interested in LIVESTOCK PRICES. For a free copy write to Agricultural Research Dept., SWIFT & COMPANY, Chicago 9, Illinois.

### Swift & Company

UNION STOCK YARDS, CHICAGO 9, ILLINOIS

Nutrition is our business—and yours

Tom Glaze  
Agricultural Research Department

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Here's how you can take advantage of this money saving plan: Order your supply of Phillips 66 Motor Oils, Gear Oils and Greases. Set a delivery date—anytime before May 31, 1954. That's all there is to it.

## Here's How You Benefit

- **Generous Discounts** . . . you start saving money on orders as small as 15 gallons . . . discounts are up to five cents a gallon.
- **Top Quality Products** . . . you get all the special advantages of high quality Phillips 66 products.
- **No Down Payment** . . . you make arrangements for paying later.
- **Assured Supply** . . . you have the products you need when you need them.
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Don't delay in getting your order in. Call your Phillips 66 Distributor today.

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COMPANY



Will discuss the wheat problem, the livestock crisis, farm tax questions and use of research when . . .

## Board of Agriculture Meets January 13 to 15, in Topeka



William Condell, President  
Kansas State Board of Agriculture



James G. Gardiner, Canada  
Minister of Agriculture



Roy Freeland, Secretary  
Kansas State Board of Agriculture



Dr. A. D. Weber, KSC  
Dean, School of Agriculture

KANSAS FARM interest will focus on Topeka, January 13 to 15, as the 83rd annual meeting of the Kansas State Board of Agriculture convenes. Secretary Roy Freeland extends a special invitation for the general public to attend the 3-day convention.

More than 1,500 farm leaders are expected for the event, which will feature topics on the world wheat problem, the livestock crisis, Western Kansas agriculture, farm tax problems, and practical use of agricultural research.

The world wheat problem, a topic of particular significance to Kansas, will be a convention attraction Thursday afternoon, January 14. This will be discussed by the honorable James G. Gardiner, Minister of Agriculture, Dominion of Canada, one of the leading international authorities on this subject.

National farm policy in the United States will be discussed by Congressman Clifford Hope, whose topic is "Report from the Grass Roots." Chairman of the House Committee on Agriculture, Hope will review farm thinking as found by his committee in their nation-wide tour.

Current problems in the livestock industry come in for their share of the attention on Thursday morning, January 14. Dr. A. D. Weber, Dean of the School of Agriculture, Kansas State College, will speak on "Will Stockmen Weather the Crisis?" Weber has recently returned from the British Isles where he judged Great Britain's supreme cattle championship, the Smithfield Show, Earls Court, London.

Howard M. Immel, member of the Kansas House of Representatives, and chairman of the Kansas Citizens Com-

mission on Tax Assessment and Equalization, will speak on tax problems the state. His topic is "Progress Solving Kansas Tax Problems." He will appear Thursday morning.

The importance of sorghums to Western Kansas agriculture will be stressed in a talk by W. W. Duitsman, superintendent of the Fort Hays Branch Experiment Station, Thursday morning. Duitsman's subject will be "Sorghums for a Balanced Agriculture."

Presiding over sessions of the annual  
(Continued on Page 11)



Congressman Clifford Hope  
Chairman, House Agriculture Committee



Dean L. C. Williams  
Director of Extension KSC

W. W. Duitsman, Superintendent  
Hays Experiment Station

entention and toastmaster at the banquet will be William Condell, of El Dorado, president of the Board of Agriculture.

The get-acquainted dinner, kick-off of the convention Wednesday evening, will dwell on the centennial theme. Secretary Freeland has engaged a special production for the occasion. It is entitled "One Hundred Years of Agriculture in Narrative and Music."

Dean L. C. Williams, Dean and Director of Division of Extension, Kansas State College, will address the convention on Friday afternoon. His topic is "Putting Research to Work on the Farm."

A tour of the new Kansas State College of Agriculture laboratory will be the highlight of the Thursday afternoon session. Work of the laboratory was reported in the September 19 issue of the Kansas Farmer. Delegates and visitors will see modern chemical apparatus for your protection in purchases of seed, seed and fertilizer, and the consumer in purchases of milk and dairy products.

Marketing problems will come before the assembly when Merrill Werts, Director of Marketing for the Board, speaks Friday afternoon, January 15. He will talk on "Marketing—An Agricultural Frontier."

The late J. C. Mohler, secretary of the State Board for more than 35 years, will be honored at a special memorial service the afternoon of January 15. H. Lambert, long-time Board member and close friend of Mohler, will be in charge of the ceremony.

A high point in the Friday afternoon program will be showing a brand-new technicolor movie on Kansas. The film, filmed for the Kansas Industrial Development Commission, is titled "34," symbolizing the fact that Kansas was the 34th state admitted to the Union, and that Dwight D. Eisenhower, of Kansas, is the 34th man to be president of the United States. This will be the first showing of the film to a farm group.

All sessions of the convention will be in the Assembly Room of the Topoka Municipal Auditorium, with the exception of the get-acquainted dinner the first evening. This will be in the Banquet Hall of the Auditorium.

At the get-acquainted dinner, special recognition will be given outstanding Kansas rural youth. This will include the national 4-H trip winners, and 4 FFA youths who were awarded the American Farmer degree for outstanding work. The boys are Marvin Allen, Olathe; Kermit Case, Little River; Donald Hunt, Arkansas City; and Ronnie Hughes, Emporia. Hunt is the son of Walter A. Hunt, who was president of the Board of Agriculture in 1952.

Business and resolutions will occupy delegates at the close of the final session on Friday afternoon.

### Entomologists Plan Centennial Program

Named Kansas chairman for observance of the centennial of professional entomology in America is Herbert Knutson, head of Kansas State College entomology department. The centennial will highlight contributions of the profession to the economy, health and welfare of the U. S.

Chairman of the national supervisory committee is David G. Hall, 1929 Kansas State College graduate with master's degree, and now with the USDA in Washington, D. C.

### New Bull Barn

Kansas State College is building a new \$35,000 barn to house purebred dairy bulls to meet expanding services of the Kansas Artificial Breeding Service unit. The 44- by 144-foot structure is expected to be ready by late February or early March. Funds set aside from KABSU earnings are used to build the barn, which will parallel the present barn 16 feet to the south.



Edward M. Immel, Tax Authority  
Kansas House of Representatives



Merrill Werts, Marketing Director  
Kansas State Board of Agriculture

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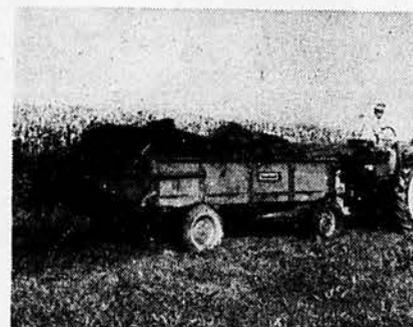
# Tougher Jobs-bigger loads with the new Farmhand UNIVERSAL Loader!



**FAST MANURE HANDLING**—You do more than just peck away at the job with the Farmhand Universal. Slam in hard, take a full bucketload every trip and you get your spreader loaded in a lot less time. The Universal lifts up to 1 1/4 tons with a breakaway strength of over 1 1/2 tons. Bigger loads and fewer trips with the Farmhand "Power-Box" Spreader too. Used singly or as a team, the Farmhand Universal and "Power-Box" save you time, money and hard work on dozens of farm jobs the year 'round.



**THIS HUSKY, WIDE FRONT** brother of the Farmhand Standard fits both wide front and row crop tractors. It has the same 12 ft. lift, full reach and 14 cu. ft. bucket. Industrial type box-section lift arms withstand heavy lifting and jarring shock, are rigid enough to avoid sidesway without extra struts and braces. 22 cu. ft. Scoop is available for snow, ear corn, grains, other bulk materials. Pitch Control, Hay Basket and Push-Off available soon.



**4-TON, PTO-SPREADER**—The "Power-Box" Spreader gives you big capacity, even spreading and maintenance-free service. Treated plywood sides and bottom outlast steel, cut freezing problems. Heavy duty steel slats on stout roller chain conveyor give dependable operation. Spreader is built low enough for easy loading with barn cleaners. The "Power-Box" is also a self-unloading Feeder, Forage Unit, All-Purpose Box.

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

A division of SUPERFOR SEPARATOR COMPANY

# FROM A MARKETING VIEWPOINT

Prepared by Marketing Staff of Kansas State College: George W. Gerber, James R. Hoath, Roy M. Hoss, M. E. Jackson, Paul L. Kelley, Joe W. Koudele, Milton L. Manuel, John H. McCoy, Leonard W. Schruben, L. W. Van Meir, Norman V. Whitehair

*What are price prospects for protein supplements? I am especially interested in cottonseed meal and soybean meal because I need to decide whether to buy enough to last the rest of the winter.—R. M. G.*

Oilseed cake and meal prices appear to be heading for still higher levels. Soybean meal prices, basis Kansas City, have advanced about \$16 per ton, cottonseed meal about \$8 and linseed meal about \$6 per ton.

The rapid advance of soybean meal prices was in response to a smaller crop of soybeans last year as compared with 1952, and increased popularity of this product as a feed. The U. S. cotton crop is expected to total 16.4 million bales based upon December 1 conditions. This compares with a 1952 crop of 15.1 millions and a 10-year average of 12.2 millions. A 1953 crop of 16.4 million bales would be the fourth largest of record.

On the basis of average lint-seed ratio, cottonseed production in 1953 would be 6.8 million tons, up from 6.2 millions in 1952 and 5.0 millions average from 1942-51. Soybean meal production is expected to be lower.

As to acquiring supplies to last thru January at this time, it would appear odds of about 4 to 1 favor a further

advance of \$12 per ton on cottonseed meal and about \$10 for soybean meal before the season's high is reached. This is now expected in February. Some weak spots in the market are expected and breaks of \$5 within a 10-day period would indicate the 1-to-4 chance for lower prices is developing.—L. W. S.

### Poultry Will Pay in 1954

*Will poultry production be profitable in 1954?—K. T.*

Poultry production in 1954 will be profitable. Several factors are to be considered. There probably will be an increase in number of hens on farms, particularly in the last half of 1954. From all indications, there will be more chicks started this spring than last spring. Number of pullets on farms now is about the same as in 1953, so the price should hold up during spring months.

Consumption of eggs is important and should it fall off, a surplus of eggs could be built up and have an adverse effect on egg price.

A development in the quality egg marketing should increase the price of eggs. More markets in Kansas are beginning to buy eggs on the basis of state grades. This program should return the producer 5 to 7 cents a dozen

for high-quality eggs over current receipt eggs. It is up to the producer to do a better job of marketing as well as the market organization. Profitable production will depend not only on marketing but also on production.

Yes, poultry production in 1954 will be profitable for the good poultryman. A poor poultryman will have his trouble in 1954 as always.—M. E. J.

### How a Co-operative Is Formed

*There is a sizable group of farmers in this community who are interested in organizing a co-operative grain elevator company to store and market grain. Will you please give me information on how we should proceed?—W. W. S.*

Farmers in many communities throughout the state are currently using the co-operative form of business organization in solving their marketing problems, and I see no reason why your group cannot do likewise. A pamphlet, "Organizing a Farmer's Cooperative" (Farm Credit Administration, Washington 25, D. C.) will be helpful. The suggestions are general but are quite pertinent. In addition, some specific suggestions I believe you will find valuable are as follows:

1. Ask a representative of a local co-operative in your general vicinity to meet with your group to discuss how they organized, some of the problems they had, and what suggestions they would have to offer you.

2. Contact a local attorney who can assist you from the beginning in this undertaking. I believe you will find for best results a co-operative should be incorporated under the Kansas Cooperative Marketing Act. Since these matters are quite technical, you need the advice of a competent attorney.

3. Local grain co-operatives usually find it to their advantage to be affiliated with a regional grain-marketing co-operative in marketing their grain. Regional grain associations in Kansas have extension field forces which are available to a group such as yours to give valuable advice and assistance. If you are interested, I can give you the name and address of the organization which operates in your community.

4. You may wish to supplement financial contributions from members with borrowed funds in financing your association. Co-operatives frequently borrow funds from one or more of the following sources: members, individuals other than members, local banks, and the Farm Credit Administration's Bank for Cooperatives.

5. That you contact your county agent who will be glad to assist you in any way he can. He can arrange for the Extension specialist, in co-operative organization, to meet with and assist your group if you so desire.

6. We have developed a suggested charter and by-laws here at the college which we recommend for use in an organization such as yours. We would be glad to supply you with copies if you so desire.—M. L. M.

### No Real Tough Recession

*Is there any reason to refer to the present decline in business activity as an "adjustment" rather than a recession?—H. L. P.*

Probably not, for it is obvious on several counts that business activity is receding from the high levels of early 1953. However, as recessions go, this one has many aspects that indicate a limited downward adjustment, rather than a collapse. This fact probably prompts the use of the term adjustment rather than recession in many recent forecasts.

The numerous declines in business activity in U. S. history escape easy classification because no two are alike. Elements in the picture are always different. However, it is possible to detect and measure changes of the important business factors. For example, in the current picture over-all industrial production is down from March highs. Reductions in length of the work week were evident months ago. Unemployment figures for November showed the first increase of the year. There has

been a slowing of the use of consumer credit.

Severe changes, and simultaneous changes in several economic areas, have created serious recessions in the past. The economic system's capacity to absorb changes has limitations. Consequently, the Nation has occasionally experienced severe price income and employment adjustments when changes have been concentrated in time or have been severe.

The present downward course of business activity is widely being called "adjustment," and primarily because the foreseeable changes are of the type that can be handled by the economy without serious repercussion. So far, changes have not been precipitous, except in agriculture. In respect to farming, nonfarm incomes rose while farm incomes fell. And now, greater stability in farm income is predicted in 1954. Currently, with total production down, an active market in the soft-goods industries is fortunate at a time the hard goods industries are experiencing adjustment.

For 1954, investment, consumer buying, and government buying give the promise of being at levels high enough to justify the optimism implicit in the use of the term "adjustment."—J. R. B.

*Do you think I would have a reasonable chance of realizing a profit on a winter lamb pasture program?—H. G.*

At present there are packets of feed lambs that can be bought for 15 to 20 cents. These lambs could be roughed thru January and February at a relatively low cost, then fattened on spring wheat pasture. All told the cost in the type of feeding program would not be great. The initial investment would be relatively low and the feed utilized would in many instances be low-cost roughage or feed that otherwise would not be utilized.

One of the most important aspects of the winter feeding program is the nature of price movement between the time of purchase of feeder stock and sale of fat animals. At present, it appears there is very little possibility of any serious price decreases thru the winter. Woolled lambs in March and April in all probability will be selling between 20 to 22 cents which would provide a substantial return for feed and labor that otherwise might not be utilized.

Note to Kansas Farmer Subscribers: If you have marketing questions you wish to have answered, please mail them to Marketing Department, Kansas Farmer, Topeka, Kan., and they will receive prompt attention.—R. Gilkeson, Editor.

### Insects in Stored Wheat on Decrease

Insects in stored wheat are on a decrease in Kansas, thanks to cooperative efforts of Kansas Wheat Improvement Association, Kansas State College and farmers.

State-wide publicity and educational campaigns on stored grain insect problems have been worthwhile. During years work, bushels of weevily wheat have been reduced from a high of 200,000 for crop year ending June 30, 1949, to a low of 1,134,000 for year ending June 30, 1953.



"Maybe the pilot light is out!"

# SPREADING ALL OVER THE COUNTRY



## THE KELLY-RYAN Spreadaway "4 IN 1"

**MANURE SPREADER • BUNK FEEDER  
SELF-UNLOADING WAGON • TRAILER**

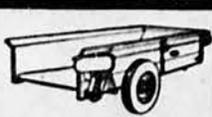
Here's a versatile, all steel unit that you can keep busy the year 'round. The single, new principle beater and enclosed gear box with P-T-O drive form an unbeatable manure spreader combination. Spreads any load perfectly in any weather, regardless of ground conditions. Available in 100 bushel 2-wheel unit, or 200 bushel 4-wheel (or truck) unit.

IT'S A SELF-UNLOADING WAGON



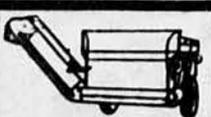
Remove beater, add side boards and end gate. 2-wheel—150 bushel size, 4-wheel—6 ton size.

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Simply remove beater and you have a trailer—handy for a thousand and one chores.

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Add the "Feed-away" attachment for a front or rear unloading feeder wagon. Unloads smoothly - evenly.

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# Occo the Ration for Brood Sows

Your brood sows have to build their spring litters during the toughest time of the year — WINTER. You can make it easier for them with Occo — THE SUNSHINE RATION. Occo supplies ALL the nutritional elements sows need, including important VITAMIN D, which is in such short supply right now. Make sure your brood sows build a FULL LITTER of strong, healthy pigs . . . GIVE THEM OCCO EVERY DAY.



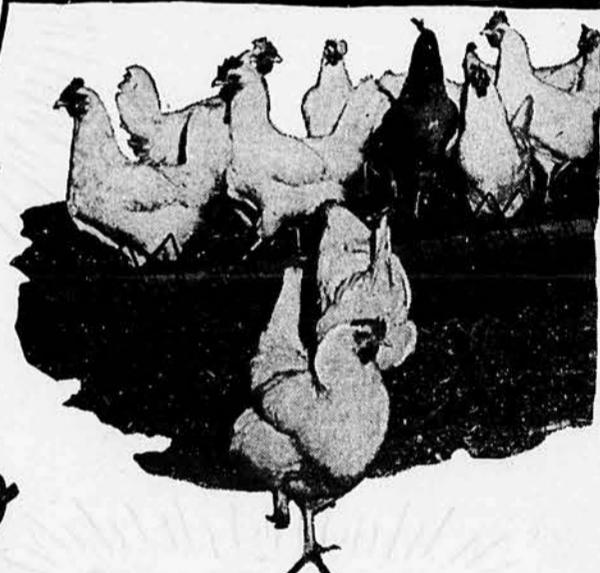
# Occo the Ration for Growing Pigs

The Occo Complete Feeding Program is the ONLY ONE that lets you adjust your protein and minerals to fit your own farm and your own pigs. Put Occo Mineral-Vitamin Supplement and Occo-Lak in one self-feeder. In another feeder put Occo-Trate 40 — the new, completely balanced vitamin and amino acid formula. Occo along with your own grain gives your pigs a chance to balance their own ration. Occo supplies all the protein, minerals, B-vitamins, Vitamin A, Live-cell yeast, antibiotic and Vitamin D.



# Occo the Ration for Beef and Dairy Cattle

Vitamin D is the most important vitamin in livestock feeding. Occo gives your cows all the precious Vitamin D they need. Each pound of Occo contains 32,000 U.S.P. Units of essential Vitamin D. Occo also cuts your feeding cost. The mineral, vitamin D and live-cell yeast in Occo nourish and activate the rumen bacteria. This rumen activity is the key to more complete digestion and use of feed.



# Occo the Ration for Poultry

Hens in heavy production MUST HAVE a completely balanced ration . . . and the Occo Complete Feeding Program for poultry is the best and cheapest balanced ration you can feed. Occo-Trate For Poultry is the perfectly blended poultry protein. Occo-Trate For Poultry supplies all the elements your grains lack . . . minerals, vitamins, protein, live-cell yeast and an antibiotic — ALL IN ONE BAG! Your poultry will stay thriftier and hit a higher, sustained output of quality eggs when they get OCCO-TRATE FOR POULTRY.

OCCO is the tailor-made program that fits your farm and your stock BEST. When you feed only what your stock and poultry need — YOU FEED BETTER AND CHEAPER. The Occo Service Man who lives near you can PROVE OCCO IS THE SUNSHINE RATION that cuts feeding cost and lets you feed better.

OELWEIN, IOWA



## FARMING FOR PROFIT

By LEONARD W. SCHRUBEN  
Professor of Agricultural Economics  
Kansas State College

### Which Protein Supplement Should I Buy?

*This is written to help you reduce your feed bill. In winter many livestock feeders buy protein supplement. Prices of supplement change from time to time, and this article explains how to compare feeding values with prices. The market often offers an opportunity to lower cost of farm production which is important in these times of cost-price squeeze.*

WHICH PROTEIN supplement should you buy? With feed prices being what they are we would answer, "Buy the cheapest, of course." But how can you tell which really is the cheapest when some are 32 per cent protein, some 41 per cent, some 44 per cent, and others as high as 60 per cent? The answer isn't easy and no one answer would fit all farming operations. However, some pointers may help as guides and here they are.

#### Habit May Be Costly

In case you have it, the first step is to break the habit of buying the same kind of supplement each time without checking relative prices. It is true that over a long time the price relationship of cottonseed meal, soybean meal, and linseed meal will be about equal to their feeding value. Also, tankage prices will tend to even up with the other high-protein supplements.

But you don't buy on the long-time market. You don't always have a chance to wait until the market makes an adjustment. Therefore, you ought to be prepared to compare market prices with relative feeding values every time you buy, in order to get the most for your dollar.

#### Compare Cost Per Pound of Protein

One common method of comparing prices of protein supplements is to figure cost per pound of protein. For example, 41 per cent meal has 820 pounds of protein per ton (41 per cent of 2,000 pounds). Divide this 820 into the price per ton and your answer is the cost per pound of protein. Likewise, if tankage has 60 per cent protein, there are 1,200 pounds of protein per ton. Divide the price of tankage by 1,200 and you have the cost per pound of protein. Of course, there is more nonprotein in the cottonseed meal than in tankage, so an allowance would need to be made for this fact. But the nonprotein usually is not worth nearly as much as the protein.

#### Scales Make Comparison Easy

In case you don't like arithmetic very well, it may pay you to spend a few minutes learning to use the accompanying scales. They are easy to use once you get the hang of it. The proper math-

ematical adjustments have been made so you can readily determine cost per pound of protein when you are buying protein supplements.

Here is what you do to find cost per pound of protein when the price per ton is given. Suppose you are comparing prices of cottonseed meal with 41 per cent protein and linseed meal with 32 per cent protein. Cottonseed meal is \$75 per ton and the linseed meal is \$78 per ton.

For the cottonseed meal you read over on the "price per ton" (top) line to \$75. Next place a ruler or straight piece of paper vertical to this scale. Then you can easily read the price per pound of protein on the cottonseed (41

assumption you will use protein supplement in a balanced ration. Furthermore, it was assumed the kind of supplement you use would be suitable for the kind of livestock fed.

At any time one protein supplement almost always will be a better buy than another. Prices vary considerably in different parts of Kansas and the best buy in one town might not be the best buy in the next. It pays to shop and it pays to compare feeding values with prices. Can you cut costs this year?

### School Lunch Program A Growing Business

Some experts in the field of nutrition predict that all our agricultural surpluses would vanish if every person in the country ate a good and proper diet. Whether that's exactly right, the Kansas school lunch program makes a good stab at the problem.

It serves 2 good purposes, it relieves the surpluses and gives 95,000 school children a good lunch. W. W. Wright, director of the state program emphasizes the point that schools run their own programs, for they hire personnel, buy equipment and charge the price they wish.

Wright's field staff of 3 home econ-

### STILL TIME TO WIN OUR NEW YEAR CONTEST

Write a resolution for Uncle Sam—the thing you think most important for the United States to resolve for 1954. Keep it to 50 words or less and mail it to "Uncle Sam, care of Kansas Farmer, Topeka Kansas," before midnight Monday night, January 4, 1954.

For complete rules and details, see page 7 of your December 19 Kansas Farmer. First prize is \$50, second prize \$25, and the 10 next are beautiful Valley Forge American flags for the home, all offered in this Copper Contest thru Kansas Farmer, the Topeka Daily Capital and WIBW. Send your Uncle Sam New Year's resolution in now to Kansas Farmer.

per cent) scale. It will come out about 9.1 cents per pound.

For the linseed meal you read over on the "price per ton" (top) scale to \$78 and directly below on the linseed meal scale (32 per cent) you can read the price per pound of protein. It will be about 12.2 cents.

There you have a direct comparison of the price per pound of protein. In cottonseed meal it costs 9.1 cents and in linseed meal it costs 12.2 cents. A saving of \$30 or more per ton of protein can be realized by buying cottonseed meal. How do prices compare in your locality?

On the basis of recent Kansas City prices, 60 per cent tankage was priced at \$97 per ton; 41 per cent soybean meal at \$82; 41 per cent cottonseed meal at \$75; and 32 per cent linseed meal at \$78 per ton. The corresponding price per pound of protein if all cost is charged to protein was tankage, 8.1 cents; soybean meal, 10 cents; cottonseed meal, 9.1 cents; and linseed meal, 12.2 cents.

These scales were prepared on the

omists supervise by holding training schools for cooks by advising about buying, meal planning and use of surplus commodities.

More than 4 million dollars were spent last year in this department, \$789,000 of it by the Federal government, about \$25,000 by the state for administrative expenses, the rest by schools and the children who eat the lunches.

Undoubtedly many school children have benefited for they not only acquire good eating habits but school work improves as a result. The school lunch business is growing, in both number of schools serving lunches and number of children participating.

#### Thank You

I want to tell you we enjoy every leaf of the Kansas Farmer, wonderful lot of information in it.—  
Mrs. Ed Buechel, Sedgwick Co.

### Marketing Feeder Cattle

"Marketing Feeder Cattle and Calves in Kansas" is a new bulletin of the Kansas Agricultural Experiment Station, Manhattan, which gives details of a study on buying and selling practices, marketing costs, etc., of Kansas feeder cattle. As a service to readers, a copy of this bulletin may be ordered thru the Farm Service Editor, Kansas Farmer, Topeka, N. charge.

### Wheat Research Advisory Council Meets

Developing improved bread flavor and eating quality (which will increase consumption) was seen recently as one of the answers to the wheat surplus problem worrying Kansas producers. The Kansas Wheat Research Advisory Council, meeting on the Kansas State College campus, also advocated a world wheat quality survey to learn competition in export programs; study of changes needed in U.S. foreign policy to enable the wheat industry to compete in foreign markets; expanded program of basic research continuing the present applied research program; increased efforts to get improved practices adopted by farmers.

Officers elected for the coming year are: H. W. Clutter, Holcomb, president; John Patterson, Kansas City, vice president; C. W. Pence, Manhattan, secretary; Herman Praeger, Clifton, delegate-at-large.

### KSC Expands Crop Research

Approval by the Kansas State College board of regents and the SCS Administrator in Washington, D. C., of a 10-year lease of a 181-acre SCS area southwest of Manhattan is announced for the state agricultural experiment station. The agreement transfers machinery, irrigation equipment, vegetative material and other items for continued research and demonstration leading to new crops for soil and water conservation.

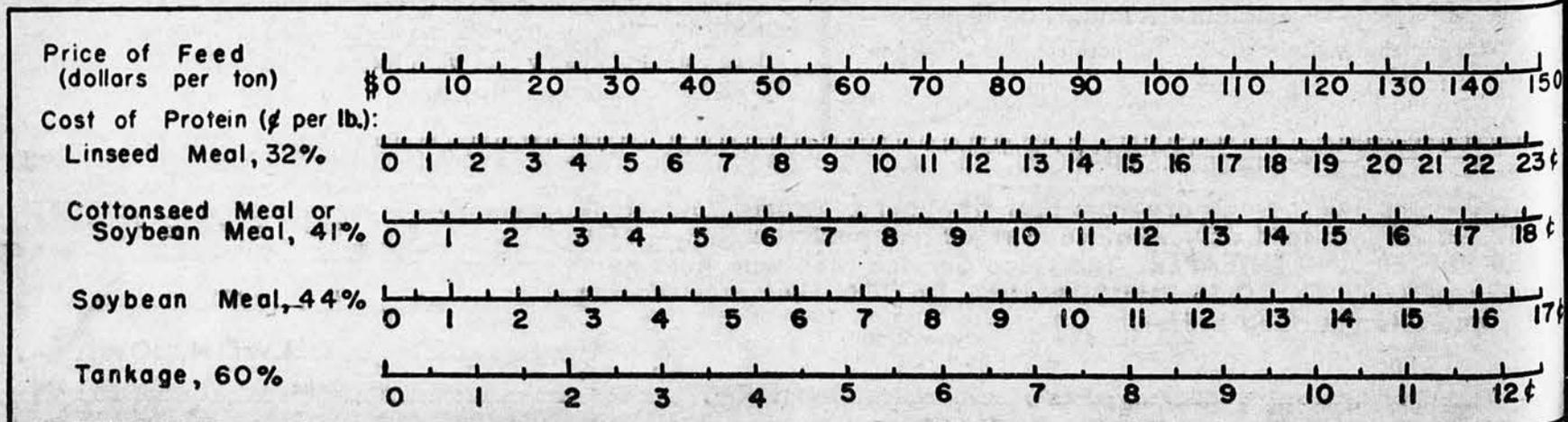
### Juniata Ranch Sold

The famed Juniata Ranch near Manhattan, owned by the late Dan Casement, has been sold to John Vanier Salina, prominent stockman. The ranch consists of 2,900 acres of Blue River valley and upland, and was owned by the Casement family since 1878. Vanier, Hereford breeder, mill owner and feed manufacturer, says he will make the ranch into a show place and demonstration area for his cattle and his products.

### Find Old Relics

An area 25 miles south of Wichita has turned up some 3,000-year-old relics. Archeologists of the University of Wichita were jubilant over their find and expect to uncover other bodies of relics in a large mound.

### SCALES FOR COMPUTING COST PER POUND OF PROTEIN



**EASY TO USE:** To make this scale work for you, take a ruler or straight piece of paper. Place up-and-down on scale at \$75 top line. Reading down you find cottonseed 9.1 cents a pound. Be sure to read Mr. Schruben's article on this page, then clip and save for frequent use.

# Be Assured of Adequate Feed WITH DODSON "RED and WHITE TOP" SILOS

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NOW!  
ERECTION CAN BE  
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## \$38 WILL GET YOU STARTED

On Dodson's \$38.00 plan, you can have a silo delivered to your farm and you can finish paying for it out of increased profits and savings. In no time at all, it will

have paid for itself. You can add to it to increase the capacity or erect additional silos until you have sufficient silage storage for your herd.

## Plan for at least two years' storage

An authoritative source (Kansas Farmer, Nov. 7, 1953 issue) points out that the farmer who puts up a silage reserve in good production years is ready for drouth years. Silage stored in a

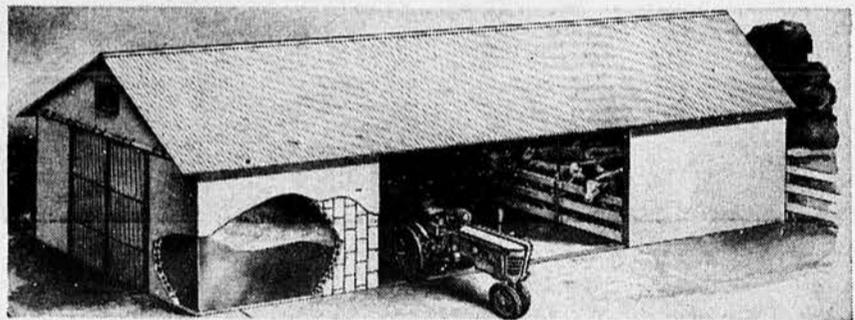
Dodson "Red and White Top" silo will last indefinitely because of the superior construction. Yes, when you have a silage reserve in a "Red and White Top" it's better than money in the bank.

## WHY YOU NEED A RED and WHITE TOP

The "Red and White Top" has so many good features that it's impossible to list them all here. Dodson's completely illustrated literature or Dodson's dealers will give you all the facts. Basically though, 44 years of experience

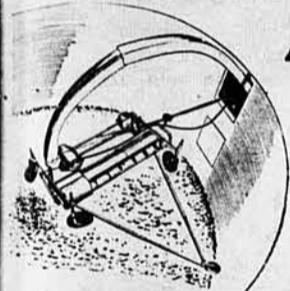
goes into every Dodson "Red and White Top." The latest equipment is used to bring you the finest silo on earth. You'll be proud of the distinctive "Red and White Top; it's a monument to good judgment and good farming.

## DODSTONE FOR GRAIN STORAGE



The finest investment in a grain storage building is this all-purpose Dodstone building of bolted-together, stressed steel. Each 8' wall is reinforced under 40,000

pounds of pressure. Use it all for grain storage or multiple use. Ask us about "on the farm" Commodity Credit Loans, and the new five-year tax depreciation plan!



## A McLEAN SILO UNLOADER TAKES THE FORKING OUT OF FEEDING

The McLean Silo Unloader is rapidly becoming the silo owner's best friend. It's the easy way to feed silage. Its capacity is amazing . . . delivers up to six tons of silage per hour. Has automatic de-icer and fits any tower silo. It requires no suspension and any unit is adaptable to all sizes of silos. Ask for complete information.

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**DODSON MFG. CO. 1463 BARWISE WICHITA, KANSAS**

# Kansas Farm Home and Family

By FLORENCE MCKINNEY



Picture Courtesy of Benton & Bow

## Make It With Sour Cream

**S**OUR CREAM is the home cook's delight. In chocolate cake, in dressings, icings, wherever it's used, it gives a special goodness to each dish. It's thrifty, too, often makes use of cream that otherwise might be discarded.

### Sour Cream Chocolate Cake

2 cups sifted cake flour	1/2 teaspoon baking powder
1/2 cup cocoa	1 teaspoon soda
1 cup sugar	2 eggs, unbeaten
1/4 teaspoon salt	1 1/2 cups sour cream
	1 teaspoon vanilla

Combine dry ingredients in bowl and sift together 3 times. Add 1 unbeaten egg, sour cream and vanilla. Beat 100 strokes, add other egg and beat 100 more strokes. Bake in square, greased cake pan in moderate oven (350°) for 30 to 35 minutes. If desired, make two 9-inch layers. Serve with following sour cream brown sugar icing.—Mrs. Raymond Zimmerman.

### Sour Cream Brown Sugar Icing

2 cups brown sugar	1 cup hot water
1 cup granulated sugar	1/2 cup sour cream
	1/2 cup butter

Mix brown sugar, granulated sugar and hot

water together and boil until it spins a thread. Add cream and butter and bring to a good boil again. Remove from heat and cool in pan of cold water while beating until of right consistency to spread on cake.—Mrs. Bertha Johannes.

### Whole-Wheat Muffins

3/4 cup sifted all purpose flour	1 teaspoon salt
1 1/2 cups whole-wheat flour	3/4 teaspoon soda
1/4 cup sugar	1 teaspoon baking powder
	1 egg, beaten
	1 1/2 cups sour cream

Measure flour, whole-wheat flour, sugar, salt, soda and baking powder into mixing bowl. Beat egg and add to sour cream. Mix well and add to dry ingredients and stir barely enough to mix. Pour into greased muffin tins and bake in moderate oven (375°) for about 20 minutes or until nicely browned.—Mrs. Irving Winkler.

### Baked Lima Beans

6 cups cooked lima beans	1/4 cup brown sugar
1 teaspoon salt	1/2 teaspoon dry mustard
Pepper to taste	1 cup sour cream
	4 slices bacon

Soak 3 cups dry lima beans overnight. Cook

in liquid next day until plump, but not completely cooked. Drain slightly, add salt and pepper to taste. Add brown sugar, mustard and sour cream. Put into baking dish and cover with bacon strips. Bake in slow oven (325°) about 2 hours. Serves 8 to 10.—Margaret H. Stearns

### Sour Cream Apple Pie

3/4 cup sugar	1 cup sour cream
2 tablespoons flour	1 teaspoon vanilla
1/2 teaspoon salt	1/4 teaspoon nutmeg
1 egg, unbeaten	2 cups diced apples

Line a 9-inch pie pan with pastry. Sift together sugar, flour and salt. Add unbeaten egg, cream, vanilla and nutmeg. Beat to smooth batter. Stir in diced apples. Pour into pastry lined pan. Bake in hot oven (400°) for 15 minutes, then reduce heat to moderate (350°) and continue baking for 30 minutes. Remove pie from oven and sprinkle on following topping.

### TOPPING:

1/3 cup sugar	1/4 cup butter
1/3 cup flour	1 teaspoon cinnamon

Mix ingredients together, sprinkle over top of pie, return to hot oven and brown.—Mrs. J. E. Perkins.

### Reader's to Know

do indigo buntings nest and many eggs do they lay?—Betty Bell.

Indigo bunting builds a compact cupped nest of grass, weeds, leaves and bark, lined with fine grass, feathers. This nest is placed on the ground in the crotch of some brush. This bunting likes a well-ventilated situation such as weed patches and brushy growth. The 3 or 4 eggs are pale blue with 2 broods not uncommon. The female is a confusing mix since she has only a trace of blue which looks more like a sparrow.

Enjoy your stories about our birds. I retired from the U. S. National Museum in Washington and returned to Kansas after nearly 40 years. The changes in bird life in this area. The first question is what has become of catbirds and the brown thrasher? One of the former and only a few of the latter. The mockingbird is all but rare. One came this past spring and did not stay. All these birds formerly were common. Orchards used to be their favorite haunts, but of course have long since disappeared. The sharp-shinned hawk was a common winter resident for the first 2 or 3 years I was here, but for several winters now I have seen none. The cardinal, tufted titmouse, robin, oriole and bluebird are still holding their own.—H. Harshbarger.

When I first studied birds as a farm boy north of Liberty, I feel quite sure of the birds in your area. The habitat has changed since you left and the bird life has changed accordingly. When alfalfa replaced orchards, dickcissels and meadowlarks replaced mockingbirds and brown thrashers and catbirds found shelter in such places. You can find some heavy undergrowth such as plum thickets or heavy brush, the catbird and brown thrasher will still be around. Mockingbirds still can be found around many homes near you.

The best wheel of fortune is the one that keeps your shoulder to.

You will recall, field mice were plentiful around your area a few years ago. Marsh hawks, red-tails and other legged hawks joined with shrikes and sparrow hawks in keeping this rodent under control. Rabbits were also numerous. In the last years conditions have changed. Both rabbits and field mice are scarce and hawks moved to better hunting grounds. When rodents and hawks also will be present, progressive men who carry guns learn that they are worth more alive than when they are from a fence post. Another bird which has moved to the area while others were away is the starling.

### Happy New Year!

Open the doors! Step forth this night with the fresh, the clean New Year. Leave old sorrows, fret and pain, and let the church bells ringing clear.

At this moment, hold it close. Between fifty-four is here! A blessed gift of hope to man—Happy New Year! Happy New Year!  
—Camilla Walch Wilson.

### Have a Question about Birds?

If you have a question about birds, address letter to Florence Kinney, home editor, Kansas Farmer, Topeka. Want to know about identification of a particular bird, how to attract birds, let us know. Questions and answers will appear in later issues.



# Start Saving these Gooch Chick "Meal Checks" Now!

(Each "Meal Check" Is Worth 1 Pound of GOOCH'S BEST Chick Starter FREE!)

**Yes** GOOCH writes the checks for your chick starter feed this Spring! From now till April 1st, you'll find a GOOCH Chick "Meal Check" on the Tag sewed on every bag of GOOCH'S BEST Laying Feed and Pig and Hog Feed you buy. Each "Meal Check" is good for a free pound of GOOCH'S BEST Feeder-Proved Chick Starter! Collect them! They're as good as money in the bank!

## USE YOUR CHECKS THIS SPRING WHEN YOU'RE READY TO GET YOUR CHICK STARTER FEED

**Free** When you start your chicks this Spring, take your Chick "Meal Checks" to your GOOCH'S BEST Feed dealer. For every "Meal Check" you give him, he'll give you a full pound of the finest chick starter money can buy—GOOCH'S BEST! Figure it this way: every time you buy a sack of GOOCH'S BEST Pig and Hog Feed or Laying Feed, you're actually getting one pound of GOOCH'S BEST Chick Starter—and you don't pay a cent for it.

First—You save money . . . you get free Chick Starter feed.

Second—When you feed your hogs and laying hens on a GOOCH'S BEST Feed, you get top returns in meat and eggs.

Third—You start your 1954 chicks on GOOCH'S BEST Chick Starter . . . you get high livability and fast growth—healthy pullets—good layers—profit makers.

**START NOW!** The more Chick "Meal Checks" you collect, the more chick starter feed you'll get next Spring—at no cost what-so-ever! See your local GOOCH Dealer today for GOOCH'S BEST Layer and Hog Feeds.



*"It's Easy to Figure how much You Can Save!"*

Take the number of hogs or chickens you have on the farm—estimate how many bags of feed they will need during the next few months. Then, add up the savings—a pound of Chick Starter for each bag of feed you buy now!

REMEMBER—**GOOCH'S BEST IS PART OF GOOD MANAGEMENT!**

### GOOCH RED CIRCLES

**Are Valuable!** Collect and spend them for valuable merchandise! Ask your Gooch Dealer for the new Free catalog that shows all the Gooch Red Circle items . . . tells you how to get them!

### GOOCH FEED MILL CO.

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FOR POULTRY

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To prevent this, keep Pilot Brand before them all the time. Fowls take it only when they need it, hence no waste. Production and profits increase way above the cost.

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## Ice Cream and Wafers for Kansas Day

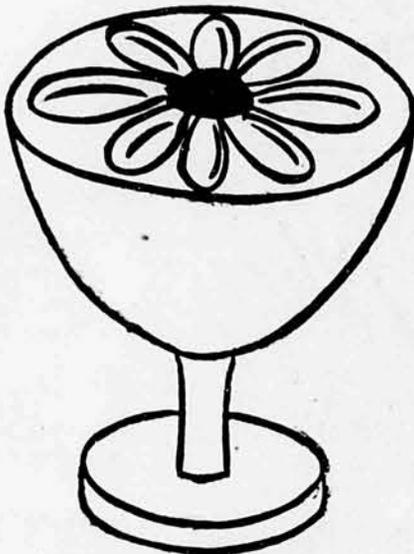
Does your club meeting come just before or on January 29? Is your church having a tea or reception during the month? Then try something new and attractive for a Kansas Day celebration. Sunflowers mean Kansas and here they are in the forms of ice cream and wafers.

### Sunflower Ice Cream

- 3 large ripe bananas
- 2 1/2 cups sugar
- Pinch salt
- 6 eggs
- 1 quart cream
- 2 quarts milk, heated and cooled
- 1 teaspoon vanilla
- Few drops yellow cake coloring

Mash bananas and add 1/2 cup sugar and salt. Beat eggs (not separated) with remainder of sugar until light and fluffy. Stir bananas into eggs, add cream and milk, flavoring and coloring. Freeze in mechanical freezer until firm. Let stand 3 or 4 hours before serving to blend flavors. You may vary amount of milk, but add cream first and fill freezer with milk up to 3/4 full.

Now you have yellow ice cream and

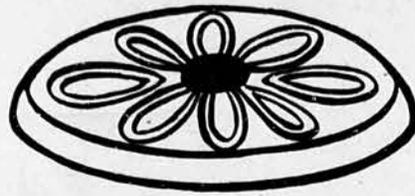


**BANANA ICE CREAM** or orange sherbet in stemmed glass may be given a sunflower design with spoon and a few drops of chocolate sirup.

you are ready to make sunflowers. Spoon into sherbet glasses, level full and smooth off with a knife. With the bowl of a teaspoon and a rolling motion, press into ice cream to simulate petals. Then hollow out the center and fill with chocolate sirup. Make sirup by boiling together 1 cup sugar, 3 tablespoons cocoa and a scant half-cup of water for 3 or 4 minutes. Remove from fire and add 1 teaspoon vanilla and cool.

### Now For the Wafers

Use vanilla wafers for they're smooth and yellow. Make the following powdered sugar icing for petals. To 1 cup sifted powdered sugar, add a few drops vanilla, about 4 tablespoons cream and enough cake coloring to make a bright yellow. Cream until smooth. With a decorating tube outline about 6 or 8 petals on each wafer. To the left-over



**YELLOW PETALS** and chocolate brown center on a vanilla wafer make perfect sunflower for Kansas Day refreshments.

icing, add cocoa or melted chocolate to make a dark brown color and place in center of each. As a substitute for a decorating tube, fold a 6-inch square of waxed paper, roll into a cone and fill with icing. Applying pressure at the right time and in the right place is the trick to be learned with practice.

### Keep Your Freezer Full

The more food going thru your food freezer, the less the operating cost for each pound. It's using, not saving food in the freezer that pays. Families who arrange to live out of their freezers as much as possible and thus have a rapid turnover make the most economical use of them.

Freezers use just as much electricity on vacant space as on frozen food. So keep it full. Buy foods when they are at their cheapest. Researchers at the U. S. Department of Agriculture learned that more than 90 per cent of the electricity used to hold foods at zero and less than 10 per cent is for freezing.

Other ways to save on operating costs are to locate it in a cool, dry place where the motor will not run excessively and where motor can escape easily. Arrange for a separate electric circuit for the freezer to avoid overloading. And, of course, as little as possible, not more than a day.

### Embroidery in the Snow

Here, embroidered in the snow are tracks of chickadees, lightly traced in larkspur blue and silvered by a freeze.

Scattered crumbs have been a guide to feathered workmen's art. And every black-capped chickadee holds a grateful heart!

—Mary Holman Grimes

### Let's Save

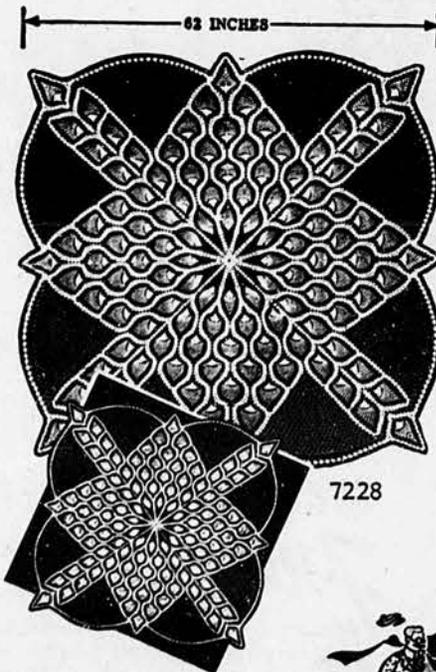
"Why must I brush my teeth, Mom? It's such an awful waste. I've just had a piece of candy and I want to keep the taste!"

—Ruth King Duerksen.

### A Swapping Party

If you want to have pecks of fun, create good will in your church club or whole community, you will need this new leaflet. It is entitled "A Swapping Party," and is full of ideas for a good time. Write to Home Service Editor, Kansas Farmer, Topeka, Kan., and enclose 3 cents.

## TOPS FOR YOUR NEEDLE



**7228**—Pineapple design tablecloth 62-inches across with scalloped edge, novel corners. Fast crochet. Use heavy cotton for 62-inch cloth. No. 30 cotton for 42-inch centerpiece.



IRON-ON COLOR DESIGN  
IN YELLOW, GREEN, ORANGE



IRON-ON COLOR DESIGNS  
IN YELLOW, RED, BLACK



**7095**—Iron-on roses in yellow, orange and green. No embroidery. Washable. Transfer of 12 designs; four, 4 1/2 by 4 1/2 to 3 1/4 by 8 1/2 inches; eight, 1 3/4 by 1 3/4 to 3 by 2 3/4 inches.

**7173**—Use remnants of checks or plaid and plain for crisp little school dress. Easy to sew and embroider. Children's sizes 2, 4, 6, 8, 10. Pattern parts and embroidery transfer included. State size.

**7060**—Popular old-time auto designs



7173  
SIZES  
2-10

in yellow, red and black to iron on kitchen and guest towels. No embroidery and washable. Transfer of 6 iron-on designs, each about 4 1/2 by 4 inches.

### Kansas Day Leaflets

"A Kansas Day Program," features games of little-known and interesting historical facts about our state, and original words of "Home on the Range." Price 5c.

"An Original Kansas Day Program," includes clever games of geographical facts about Kansas and is seasoned with a dash of humor thruout. Price 3c.

Both leaflets offer suggestions for invitations, decorations and refreshments. Send your orders to the Home Service Editor, Kansas Farmer, Topeka.

**Child Tells Stories**

S. MARION QUINLAN DAVIS

5-year-old daughter has been telling stories since she was 3. One day she asked her if she had fun at a birthday party and she said, "I didn't go to John's party, he has another day she cried and told God is out there in that big tree hanging on real tight so the wind will blow him down." What can one expect from such a child? I hope her 2 younger brothers won't be like her.—A Mother.

Our child is one with an overwork-  
 imagination. What she has told are  
 not fantasies. An adult with  
 kind of imagination writes comic  
 horror stories and science fic-

ny children from the ages of 3 to  
 age in such fantasies. As long as  
 plays well with other children, is  
 outgoing personality and doesn't  
 get into a solitary world of fantasy,  
 need not worry. If she were telling  
 with the deliberate intent to de-  
 your problem would be different.  
 she tells are fairy stories in-  
 tended to startle and entertain herself  
 others.

**Things More Interesting**

There is no doubt a sensitive child, who  
 is completely satisfied with a plain  
 of prosaic facts, entertains her-  
 with an inner world where things  
 are more interesting. Of such, wide-  
 eyed dreamers, artists and authors  
 are made. She is telling stories and  
 drawing pictures.

Don't emphasize the habit by en-  
 gement or discouragement. As-  
 the attitude of tongue-in-cheek  
 lity. "You didn't go to the party?  
 It's too bad to miss all the fun! Show  
 me the dress you wore to the party."  
 satisfied that her invention is ac-  
 cepted, she'll probably trot to the closet  
 to show you not only the dress, but  
 party favors. Then she may launch  
 into the real story of what happened.  
 Listen with her as she tells it. Children  
 are people who laugh with them, not  
 at them.

When the parent enters into the child's  
 world—believe, enters with humor and  
 understanding, but leaving no doubt  
 to make-believe, the young teller of  
 stories soon learns she has de-  
 ceived no one, not even herself.

The imagination of the young child  
 should be directed and channeled, not  
 repressed and frowned upon. It's a  
 gift from the fairies, if properly used,  
 can develop into the creative imag-  
 ination which produces all the wonders  
 of literature, art, music and modern  
 science.

**Africa of  
 Albert Schweitzer**

There is a book for your library, the  
 school library or public library. This  
 is a re-and-text documentary, the first  
 made of the world famous Albert  
 Schweitzer, may be the final record of  
 his work at the forest hospital at  
 Lambaréne, Africa. Doctor Schweitzer  
 is to retire this year after 36 years

Recently he traveled to Aspen, Colo.,  
 to make an address before a gather-  
 ing of eminent people from all over the  
 world. The many photographs and the  
 descriptive material in this book give  
 the reader a clear picture of the life  
 of Doctor Schweitzer among the  
 tribes of equatorial Africa. Here one  
 finds descriptions of strange jungle  
 life, the appreciative patients, the  
 workers and the thoughts and  
 feelings of the man who directs it.

Doctor Schweitzer, who is considered  
 the greatest interpreter of Bach, a  
 great organist, a world renowned  
 theologian, as well as a fine surgeon  
 and medical doctor is a man who might  
 be better known to Americans.  
 Africa of Albert Schweitzer by  
 Charles Joy and Melvin Arnold, is  
 published by Harper and Brothers, The  
 New York Press, New York City. Price

**Hy-Line SWEEP**  
 Cash Awards in Kansas  
 Poultry Flock Improvement Project

**Hy-Line LAY  
 MORE Eggs with  
 LESS Feed Cost**

**3 DIFFERENT SERIES  
 OF Hy-Line LAYERS**

**100 SERIES CREAM EGGS**

(Illustrated above). Proved superior in 1,182 divided  
 flock tests; averaged 303 dozen more eggs per year  
 per 100 birds over standard breeds and cross breeds.  
 Average livability same as Leghorns. About 20 mil-  
 lion "100 Series" were hatched for poultry raisers in  
 1953.



**800 SERIES BROWN EGGS**

Meat-egg chickens. Average 5 1/2 to  
 6 lbs. per hen. Eggs average over 25  
 ounces per dozen. Pullets, reddish  
 brown; cockerels, white with black  
 markings on neck, wings and tail.  
 LIMITED QUANTITY.



**900 SERIES WHITE EGGS**

New! Produce pure white eggs; pro-  
 duction equals "100 Series." Egg size  
 at present is slightly smaller than the  
 popular Hy-Line 156. Body weight  
 average 4 1/4 lbs.  
 LIMITED IN QUANTITY.

HY-LINES won all 8 awards in the commercial laying flock  
 and U. S. Approved hatchery flock divisions of the Kansas  
 Poultry Flock Improvement Project for 1952-53.

In addition, Hy-Lines won 17 out of 22 Recognition Cer-  
 tificates given for egg averages of 215 or more per layer.  
 This is a cooperative project conducted by the Kansas State  
 College Extension Service, the Kansas Poultry Improvement  
 Association, the Kansas City Chamber of Commerce and  
 the Weekly Star Farmer. Here are the winners and their  
 records.

**U. S. KANSAS APPROVED FLOCKS (HATCHERY)**

Rank	Name	Address	Average No. Birds	Average Eggs Per Hen	Labor Income Per Hen
First	Mr. & Mrs. Elmer Reep,	Wichita...	715	240	\$4.13
Second	Mr. & Mrs. W. W. McElwain,	Burrton...	194	239	\$4.58
Third	Mr. & Mrs. Clarence Dosien,	Valley Center	261	219	\$4.27
Fourth	Mr. & Mrs. W. J. Kaufman,	Moundridge	738	201	\$2.62

**ALL OTHER FLOCKS (COMMERCIAL)**

First	Mr. & Mrs. Willis Voran,	Moundridge	407	264	\$4.10
Second	Mr. & Mrs. Wm. H. Parmely,	LeRoy	533	236	\$2.92
Third	Miss Susie Wedel,	Canton	252	279	\$5.36
Fourth	Mr. & Mrs. Murray Fell,	Fellsburg	1215	233	\$2.52

**RECOGNITION CERTIFICATE WINNERS**

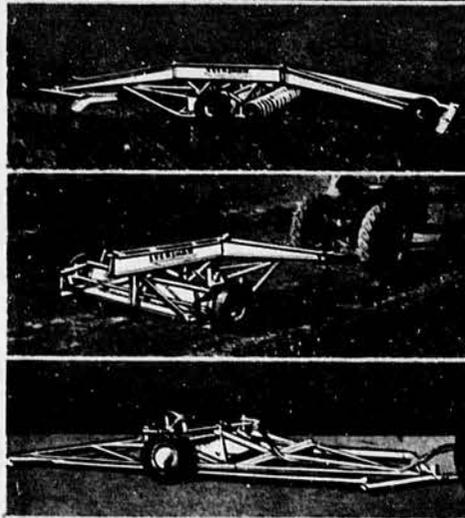
The following owners of Hy-Line flocks received Recogni-  
 tion Certificates awarded for producing 215 or more eggs  
 per hen. Twenty-two such certificates were awarded; 17  
 of them went to Hy-Line flocks.

- MR. & MRS. HARVEY BECHTELHEIMER, Sabetha
- MRS. DOROTHEA E. CLEM, LeRoy
- MR. & MRS. SHANNON S. CLUGSTON, Cherokee
- MR. & MRS. MARLYN ENSZ, Hugoton
- MR. & MRS. FRED GRANDFIELD, Rt. 7, Wichita
- MR. & MRS. E. W. FIELDS, Hugoton
- MR. & MRS. E. C. KUEHL, Duluth
- MR. & MRS. JAMES C. MANN, Quinter
- MR. & MRS. ORVILLE MILLER, Valley Center
- MR. & MRS. WILLIAM NORRIS, Wellington
- MR. & MRS. CHALMER PAULSON, Newton
- MR. & MRS. IRL F. RAMAGE, Little River
- MR. & MRS. QUINN REYNOLDS, Garnett
- MR. & MRS. JESSE C. RICHTER, Peabody
- MR. & MRS. ALVIN SIEMENS, Buhler
- MR. & MRS. C. G. TEGARDEN, Turon
- MR. & MRS. WAYNE YENZER, Saffordville

**SAVE MONEY . . .** by placing your Hy-Line  
 chick order before midnight, February 1st. Ask  
 your Hy-Line Chick representative for price  
 list and FREE CATALOG. Or write us direct.



## Eversman AUTOMATIC LAND LEVELER AND HYDRAULIC SCRAPER



Eversman precision smoothed automatically leveled fields save water, lower production costs and SUBSTANTIALLY INCREASE crop yields on irrigated fields. Only Eversman patented crank axle takes off the high places and fills in the low ones automatically producing a firm well packed seed bed as the machine moves along. The Eversman doubles as an efficient dirt mover or scraper for filling pot holes, healing gullies, and producing the proper grade on fields for efficient farming.

### Announcing New Eversman Hydraulic Models 9H & 12H

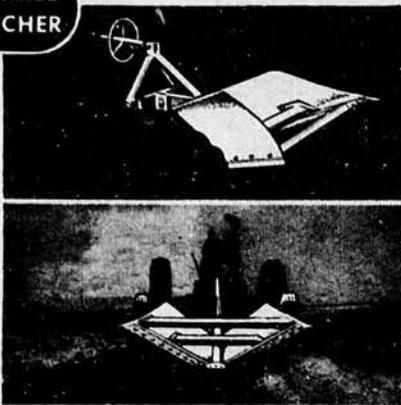
Six Models...9H, 12H, 289, and 489 with Hydraulic Controls...9PL and 12PL with Mechanical Controls. Spring-tooth attachment available.

Write for FREE booklet.

## Eversman MODERN, RUBBER TIRED FLOATING HITCH DITCHER

With the new Eversman Ditcher digging or cleaning ditches up to 6 feet in width and 27 inches deep is a ONE MAN OPERATION. Patented floating hitch bar determines width of ditch, the depth by mechanical or hydraulic control. Amazingly low power requirements due to scientific moldboard design. Can be transported at highway speeds behind truck or tractor. Available with 15" or 16" wheels. Pan Breaker attachment available.

Now 3 Models available for all standard farm tractors including 3 point suspension system. Write for FREE booklet.



**EVERSMAN MFG. CO.** Dept. L-104 • Curtis & Fifth DENVER 4, COLORADO

*Again*

# GEHL

gives you MORE in '54

## NEW 2-ROW ATTACHMENT

Now you can have four attachments for your Gehl Forage Harvester—Windrow Pickup—Mower-Bar—Regular Row Crop...or the NEW Gehl 2-Row Attachment for corn, sorghum, and other row crops.

Cut two rows instead of one. Save wear and tear, time and fuel. Reduce field travel and soil packing. Increase custom chopping income.

Drop in at your Gehl dealer now and see the new 1954 Gehl Chopper with the new Gehl Quick Switch from Windrow to Mower-Bar to Corn Head—in only 5 minutes. See the Gehl Forage Blower with Exclusive Power Take-Off Drive for faster unloading.

See the complete Gehl line—made by specialists in forage handling machinery for over Half a Century. Get "More in '54"...join America's leading farmers who own more Gehl Forage Harvesters than any other independent make.

### More... '54 Features

- ★ New Quick Switch
- ★ Cut Twice as Much
- ★ Reduce Field Travel
- ★ Save Operating Time
- ★ Increase Custom Income
- ★ Motor or PTO Available

**FREE WRITE TODAY**

GEHL offers a toast to your health, happiness and prosperity. —A glass of milk with every meal—for every member of the family!

**GEHL BROS. MFG. CO.,** Dept. MA-261 WEST BEND, WISCONSIN

Please send me information on: CHECK

New Gehl 2-Row Attachment with New "Quick Switch"

"Streamlined Forage Harvesting"

"How to Rate a Chopper"

Name .....

Street or R.F.D. .... Town .....

State ..... Acres Farmed .....

# Thoughts TO LIVE BY

## "Undergirding Faith"

"HOW CAN I BELIEVE when I don't even know whether God exists?" someone asked me recently. The inquiry of a sincere seeker is not to be brushed lightly aside. The author of the Book of Hebrews wrote, "He that cometh to God must believe that He is, and that He is a rewarder of them that seek Him." Three classical arguments for the existence of God may be helpful to the earnest searcher, and there are many in that class.

Philosophers call the first one the cosmological argument. The Cosmos is an effect. There is no effect without a cause. The universe shows signs of intelligence. This product assumes the existence of an intelligent producer. Doesn't every watch have a watchmaker back of it? Can there be a building without a builder? I saw some fresh bear tracks on a mountain trail. I needed no other evidence to convince me there was a live bear in the vicinity. Have you seen the footprints of God—in a noble character, in a beautiful sunset?

The ontological argument is second. Living in an imperfect world, I can nevertheless conceive of a perfect being. How can I unless He exists? People can think only in terms of things that are. When imaginative men wrote about dragons, they combined aspects of birds,

beasts, and reptiles with fire to create a fictional monster. But fiction was based upon fact. We think of that which doesn't exist. So, God must exist, not because we visualize His body, but because we conceive of His characteristics.

Immanuel Kant gave us the categorical imperative. Man is under obligation. We all feel we ought to do certain things. Because God made us responsible to Him, we can be no doubt about His existence.

The Bible doesn't try to prove the existence of God. In the Bible we find God speaking and acting. In Jesus Christ, He revealed Himself in terms that we can all understand. If you ask me what God is like, the answer is simple—Jesus. I can't understand God apart from Jesus, and I can't understand Jesus apart from God.

The final and conclusive proof, however, is experience. After an encounter on the road to Damascus Paul didn't need any further proof about the existence of God. He met Him face to face. For most of us, the encounter is less dramatic. We see the hand of God as we look back over our lives. We feel the goodness of God in some worship service. Then we know that He exists. His Spirit lives within our hearts.

—Larry Schwab

## What Big Farm Organizations Have to Say About Price Supports

By CLIF STRATTON, Kansas Farmer's National Affairs Editor

AMERICAN Farm Bureau Federation, in annual convention at Chicago late last month, maintained its stand against fixed 90 per cent of parity price supports on farm commodities—for the long pull. And the AFB again went on record for the sliding scale of supports, ranging on basics—except tobacco—from 75 to 90 per cent, depending upon total supply at beginning of each marketing year.

As further evidence of its holding the line against a permanent 90 per cent program, delegates unanimously re-elected Allan B. Kline, of Vinton, Ia., for a fourth 2-year term as president. Kline has consistently opposed the high rigid support programs, backing Secretary Benson's position.

However, at the insistence of Southern delegates, the AFB approved a modification making mandatory the 90 per cent supports the first-year marketing quotas are in effect following a nonmarketing quota year. In other words, an escalator clause for Congress to continue the 90 per cent.

Strict regulation by Secretary of Agriculture of use of "diverted acres" is urged in following resolution:

"The Secretary . . . should be required to establish, on appropriate geographical basis, lists of crops which may not be produced for direct or indirect sale, or may be produced to a limited extent, on acres diverted from any crop receiving price supports—when conditions are such that limitations on use of diverted acres are necessary to prevent production of excessive supplies."

The National Grange annual convention earlier condemned inflexible (90 per cent rigid) supports as "contribut-

ing to surpluses and price instability recommended continuance "on a sliding scale," on ground it would be disastrous to discontinue program when government holds close to 6 billion dollars of surpluses. Grange also went on record for 2-price system for perishables on export basis; protection against imports of products on an export basis.

Farmers Union, to meet next spring favors high fixed price supports. In addition such direct payments from Treasury as will in effect guarantee come on parity basis to agriculture as a whole.

The Farm Bureau also approved conservation payments for permanent practices; endorsed Benson's reorganization of Department of Agriculture including abolishing regional offices; the Soil Conservation Service; and foreign policies to increase export government-produced power to be sold for distribution by private enterprise either co-operatives or non-co-operatives; sale of power rights at dam sites except TVA.

## Protect Your Wood

Wood needs protection from weather and insects—your home fences, sandbox, trellises and lawn ornaments, rustic furniture. The Dow Chemical Company has published 2 new booklets, "Handyman's Guide to Home Wood Preservation" and "Before You Build—Buy." For your free copies write Farmer Service Editor, Kansas Farmer, Topeka, Kan.

**Salesmen  
More Milk**

(Continued from Page 1)

ate milk, skim milk, buttermilk range so the customer has a good on. In some locations that will justify all milk we have machines dispense 3 soft drinks plus milk." This is the way the system works. Cullinane gets permission to put a machine in some plant and then conduct a test run to find employee preference for various types of dairy products. Once this preference is established the machine is stocked in the amount of demand. "Each machine is stocked with a 48-hour supply at normal rates," says Mr. Cullinane. "The machines are dated at the plant and key numbers so our servicemen always tell how long a container has been in the machine, and can put stock in the machine accordingly. We figure on a 48-hour supply when we have to service machines all times a day during summer."

**Get a Bargain**

Where these machines are being sold are getting a bargain, too, as one-third quart containers sell for 15 cents, compared to one-half pint for 25 cents in most restaurants and other places where milk is sold in individual containers.

In addition to the drinks, each machine is equipped with a dial-a-straw attachment that dispenses straws for customers. In machines that serve both drinks and milk, employees pay 12 cents for the milk as volume used is charged to pay out at 10 cents.

The machine is rushed to these machines in refrigerated trucks kept at temperatures between 32 and 38 degrees. The machines dispense the milk at temperatures ranging from 32 to 36 degrees. "This low temperature is the key to success in machine-dispensed milk," says Mr. Cullinane. "People will buy more milk if it is of good quality and kept cold."

Check on milk sales in various locations where his machines are located. Mr. Cullinane says this information is about one third of the employees at plants will buy milk from the machines either at noon or during rest periods. Where air conditioning is available, sales sink to almost zero," he says. The best market is in shops or other places of business where employees take the heat during their work hours.

The machine used by Mr. Cullinane has this slogan on the front: "Refrigerated Energy."

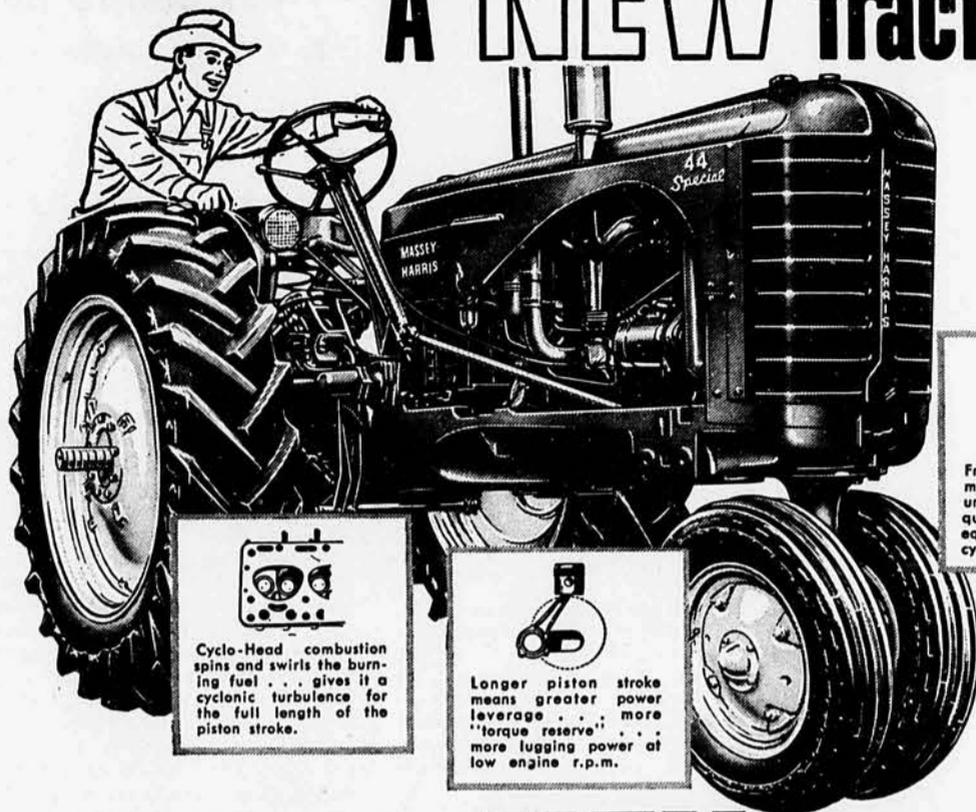
**Sells White and Chocolate Milk**

At the Park Dairy, also of Wichita, 15 coin-operated machines placed according to Elmer Burford, sales manager. "Our machines are dispensing white milk and chocolate drink in one-third quart containers for 10 cents," he says. "Greatest consumption during rest periods and our sale record shows that sales run 55 per cent for white milk and 45 per cent for chocolate." Harry Oldham, of the Oldham dairy, says he has 4 machines in operation. Most of these are located in dormitories at Kansas State Teachers College, and in industrial plants. "Those at the college are the most business," says Mr. Oldham. "We expect to sell around 600 quarts of milk thru the machines in one week."

Most of this milk, he adds, would not be otherwise as students especially do not have any immediate source of supply within the dormitories. The machines dispense half-pint containers at 10 cents each because volume is smaller than in most of the other locations. "We stock the machines with white milk, chocolate drink and a variety of other products," says Mr. Oldham, "to give customers a selection."

The evidence points to the fact there is plenty of room for expansion in sale of milk thru coin-operated machines, especially in the biggest field possibly being in the

# A NEW tractor



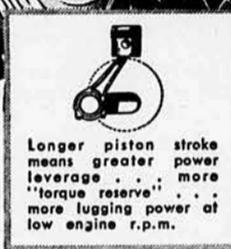
Massey-Harris carburetors are precision designed and adjusted to individual engines. Assures correct mixture at all speeds.



Free-flowing, long throat manifold means fast, uniform vaporization... quick fuel delivery... equal charge to each cylinder.



Cyclo-Head combustion spins and swirls the burning fuel... gives it a cyclonic turbulence for the full length of the piston stroke.



Longer piston stroke means greater power leverage... more torque reserve... more lugging power at low engine r.p.m.

## with a lot of NEW ideas! BIGGER... MORE POWERFUL MASSEY-HARRIS "44" Special

45.85 max. drawbar h. p., 50.29 on the belt h. p.

WALK around the new "44" Special. Check each side... the rear... up front... every angle. Climb up on the seat. Get the feel of the wheel. Set your feet on the pedals that are so easy and comfortable to operate.

Start the engine! At once you feel the eagerness... sense the greater power... in the willingness, the smoothness that says let's go to work.

It's the performance of an all new tractor! Exciting in every feature — the most powerful 3-4 plow row-crop tractor you can get for your farm.

A bigger 277 cubic inch gasoline engine with removable wet sleeves, exhaust valve rotators, greater power leverage in long stroke pistons. A new firing principle — Cyclo-Head combustion — that spins and swirls fuel in a twisting turbulence the full length of the piston stroke.

It's power that heavy loads don't pull down... "torque" reserve that's more than a claim. And the "44" Special does it at a low 1350 r.p.m. for longer engine life, lower maintenance.

Now look around a bit more. The "44" Special is huskier — with heavy cast wheels, bigger tires, better weight

balance. Here's real comfort. A clear, unobstructed platform — no braces — no "in-the-way" controls. Everything easy to reach, easy to operate. Wider spaced pedals. A follow-up hydraulic system with a host of adaptations — powered 2-ways. A live-power take-off. Ball-bearing eased steering that takes the strain off arms and shoulders.

There's more. You can see and try every feature of the new "44" Special at your Massey-Harris dealer's. Drive one — compare it. Once you do, you'll never be happy until you own one.

For folder, write The Massey-Harris Company, Inc., Dept. A-75, Racine, Wis.

## Make it a Massey-Harris

Parts and Service through more than 2500 authorized dealers



Big 277 cubic inch engine, wet sleeves, 1350 r.p.m.



Highly flexible, adaptable hydraulic system



Heavy-duty clutch... 9 pressure springs



Bigger tires front and rear... cast wheels



Velvet Ride Seat... cushioned comfort, clear platform

See these outstanding Massey-Harris Tractors at your nearby Massey-Harris Dealer

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ARKANSAS CITY.....Peters Implement Co.	EASTON.....Meinert Hdwe. & Impl. Co.	KIOWA.....Kiowa Implement Co.
ASHLAND.....Smith Implement	ELKHART.....Western Implement Co.	KIRWIN.....Charles McDowell Chev. Co.
ATCHISON.....Allen Motor & Impl. Co.	ELLIS.....Farm Implement Co.	LA CROSSE.....Weigand Motor & Implement Co.
ATWOOD.....Worthy Implement Co.	ELLSWORTH.....Ellsworth Farm Equip. Co.	LARNED.....West-Barr, Inc.
AUGUSTA.....Mickle's Service	EMPORIA.....Farmers Supply Co.	LAWRENCE.....Lawrence Implement Co.
BELLE PLAINE.....Moffitt & Harding	EUDORA.....Rothberger Motor Co.	LEOTI.....Lewis Supply Co.
BELLEVILLE.....Swiercinsky Brothers	EUREKA.....Brenton Auto Service	LIBERAL.....Tedford Implement Co.
BELOIT.....Fuller Implement Co.	FRANKFORD.....Kuckelman Motor & Implement Co.	LINCOLN.....Chard Motor Co.
BIRD CITY.....Bressler Impl. & Service	FREDONIA.....Homer Neill, 432 N. 5th	LOUISBURG.....Hink Garage
BONNER SPRINGS.....Frazier-Pruitt Implement Co.	GARDNER.....Gardner Tractor Co., Inc.	LYONS.....Trowbridge & Pickerill Implement Co.
BUCKLIN.....Schellhamer Tractor Service	GARNETT.....Craig Sales & Service	MANKATO.....Taylor Implement Co.
BUHLER.....E. & J. Super Service	GOODLAND.....Davis Implement Co.	MARION.....Marion Motors & Machinery, Inc.
BURDETT.....Lester Bauer Implement Co.	GRAINFIELD.....Fritts Implement Co.	MARYSVILLE.....Brauchi Brothers
CALDWELL.....Walt-Norton Chevrolet, Inc.	GREAT BEND.....Walter Sears Store	MCPHERSON.....Carlson & Rankin Impl. Co.
CALKER CITY.....E. C. Riley	GREENSBURG.....Sundgren Implement	MEADE.....Meade Implement Co.
CHENEY.....K. & S. Motor Co.	HAYS.....Weilert Implement Co.	MILBERGER.....Herman Radke Implements
CIMARRON.....Walker Sales Co.	HIAWATHA.....Hixson Implement Co.	MINNEAPOLIS.....Gilley's Implement
CLAY CENTER.....Frick Implement Co.	HIGHLAND.....McKay Brothers	MORRILL.....E. W. Willard Garage
COFFEYVILLE.....Isham Hardware Co.	HILL CITY.....Steward Implement Co.	MOUND CITY.....Carbon Implement Co.
COLBY.....Dougherty Implement Co.	HOLTON.....Farmers Union Co-op. Bus. Assn.	MOUNT HOPE.....Howard's
COLDWATER.....B. J. Herd Implement Co.	HOXIE.....Schlageck Motor & Equip. Co.	NATOMA.....Natoma Implement Co.
COLUMBUS.....Paul Webb Farm. Equip.	HUGOTON.....Garmon Implement Co.	NESS CITY.....John Hann Implement Co.
CONCORDIA.....McGinnis Implement Co.	HUTCHINSON.....Hutchinson Impl. Co.	NEWTON.....Dey Farm Supply, Inc.
COUNCIL GROVE.....McClintock Motor Co.	INDEPENDENCE.....Coleman Farm Equipment Co.	OSWEGO.....Oswego Implement Co., Inc.
CUNNINGHAM.....Kincheloe Implement	IOLA.....Bradford Implement Co.	
DAMAR.....Damar Implement Co.	ISABEL.....Isabel Co-op Equity Exchange	
	JAMESTOWN.....Pfister Motor Co.	
	JETMORE.....Shiew Motor & Impl. Co.	
		OTTAWA.....White Implement Co.
		OVERBROOK.....Ross A. Coffman & Sons
		PAOLA.....Egdy & Williams Implement
		PARSONS.....Farmers Co-op Assn.
		PHILLIPSBURG.....Phillipsburg Implement Co., Inc.
		PITTSBURG.....Z. & S. Implement Co.
		PLAINVILLE.....Farm Implement & Supply Co.
		ROSSVILLE.....Rossville Implement Co.
		ST. FRANCIS.....Daniels & Bressler
		ST. JOHN.....Stafford County Impl. Co.
		ST. MARYS.....J. P. Smith, K-F Motors
		SALINA.....Salina Farm Supply
		SATANTA.....Satanta Implement Co.
		SCOTT CITY.....Nickelson-Sawyer Implement Co.
		SCRANTON.....Scranton Implement Co.
		SEDAN.....Bain Motor Co.
		SELDEN.....Anderson Implement Co.
		SENECA.....Kuckelman Implement Co.
		SMITH CENTER.....Pounds Motor & Implement Co.
		SYRACUSE.....Salter Implement Co.
		TOPEKA.....Topeka Implement Co., Inc. 1808 N. Topeka Ave.
		TRIBUNE.....Tribune Sales Co.
		TURON.....Turon Motor & Impl. Co.
		ULYSSES.....Webber Supply Co.
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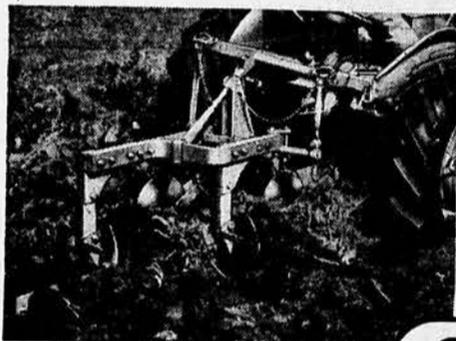
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## Apply Dormant Spray Now to Peach Trees Before Buds Swell in Spring

By WILLIAM G. AMSTEIN, Kansas State College

HAVE YOU APPLIED a dormant spray to control peach leaf curl? Many years curl proves one of our worst peach problems. Plan now to get this job done before the peach buds swell next spring.

Peach leaf curl may start to show up in late April or early May. By the end of May many trees may be entirely defoliated. Loss of leaves in itself is quite a shock to the tree, especially in view of the severe drouth the last 2 years. In addition it can result in loss of the peach crop or a heavy, early-season drop. Both loss of foliage as well as damage to crops are important. With reduced vigor of trees it also is possible for more borer and other insect damage to result.

Each spring and summer when peach leaf curl is first noticed, letters and telephone calls are received asking for a quick control measure. If no attempt has been made to get control until the red, swollen, twisted leaves are noticed, it is too late to do anything. An early dormant season control program that includes very complete and careful spraying of all areas of the tree is needed. It is the only answer.

### How Leaf Curl Develops

Leaf curl develops in the following manner. In the spring shortly after leaves begin to unfold, curl may first be noticed as a puffing or folding of the leaf. The leaf blade is thickened and curl starts to show on it. The diseased portion becomes yellowish and tinted with red. The leaf becomes thickened, distorted, and this may occur on a part or the whole leaf. These injured leaves will fall off. Some years the entire tree may lose all the foliage.

Later a new crop of leaves is produced. Some years leaf curl injury on the fruit is noticed. Often fruit drop is heavy. The leaf curl fungus lives over on the bud scales as spores. These spores germinate during early spring rains as buds start to swell and infect the young leaf as it emerges from the bud.

Evidence to support this belief is based on the fact that leaves from buds well sprayed before buds swell show little or no infection during the season, while unsprayed buds on the same tree will curl badly. Buds sprayed after they have swollen will usually show curled leaves. The disease is often more severe following wet, cold spring weather. The spores that cause curl to develop get on the hairs of the bud-scales during late summer. Spores remain dormant until conditions favor their starting early next spring. Cold, wet weather

following a warm spring period is ideal for a heavy leaf curl outbreak. It appears that varieties vary in their susceptibility to leaf curl. However, some years all varieties, sprayed early and well, may show control.

Control measures must be taken before the buds swell in the spring. In Kansas, peach trees often have "fever" by early February. After they have started it is not possible to control curl. Thoro spraying is needed for good control.

Workers in some adjacent states have suggested the dormant control spray may be omitted if trees received a complete, sulfur schedule last summer. Under Kansas conditions this has not worked out. Neither a horticulturist or commercial orchardist can afford to take this risk of curl loss. You must

### Thank You

I always enjoy *Kansas Farmer* and especially look forward to novel ideas I am sending for this letter.—Mrs. Louis Younquist, Smith Co.

call Kansas orchards that were sprayed in the summer of 1951 severe curl damage in 1952 when dormant spray was omitted.

Spray on a calm, quiet day. Good control will be obtained if a good spraying is done and all shoots covered. Either Bordeaux mixture or lime sulfur can be used. A 8-8-3 pounds copper sulphate—8 pounds hydrated lime in 100 gallons of Bordeaux or even a lighter strength material such as a 4-3-100 Bordeaux can be used. Today, most folks use prepared Bordeaux. With Bordeaux a small amount of dormant oil, 2 quarts can be added to each 100 gallons to obtain better coverage. If scale (Jose or Forbes) is present, at least 3 per cent strength dormant type oil should be applied with the Bordeaux. Liquid lime sulfur can be used for curl control at the rate of 5 to 10 gallons in 100 gallons of water.

Bordeaux is less expensive, and more agreeable to use. Prepared Bordeaux can be purchased from suppliers of spray materials. However, some manufacturers unfortunately label their packages of Bordeaux to indicate they are not to be used on peach trees. This caution applies to using Bordeaux as a summer spray on foliage. It is safe and satisfactory to use as a dormant spray material.

### 4-H CLUB PLAQUE TO EDITOR



SURPRISE: Marcia Bishop, 4-H Club champion from Maize, left, presenting 4-H plaque for outstanding service to club work to Raymond H. Gilkeson, editor of *Kansas Farmer*, center, at National 4-H Club Congress in Chicago. At right, Fred D. Wilson, Andover, chairman of Kansas State Committee on boys and girls club work and devoted 4-H Club booster. Miss Bishop was one of 34 Kansas state and national winners named official delegates to the national congress.

# How to Save More Pigs

(Continued from Page 4)

ing for the high markets program calls for a lot less farrowing time," says Vic. ear the Brownings are using boar to bunch their pigs more. says vaccinate against cholera year vaccinated also against spipelas.

ate records are kept on feed ast year, with corn figured at bushel, the Brownings know ed cost \$15.25 for each 100 f gain. Their hogs brought an of \$18.25 on the market, giving B labor margin. They expect to r this year as hog prices are nd feed costs lower.

management practice the gs have found profitable is to n the number of hogs run to o about 50. "Pigs do better if e not too many of them in any says Vic Browning. "It means anning to hold the bunches size but the extra trouble "

Parsons, of Leavenworth has expanded his hog project last 3 years and now carries that farrow twice a year. He d for several years but has k to straight Spotted Polands . "Some crosses don't work as others and you are always ome chances when you cross- e says.

o some hog breeders, Mr. Par- sons not strive for large litters. litters present too many prob- e points out. "I like good, aver- litters without runts."

He breeds for late January or early February pigs, and again for late August and early September pigs. Last year he never sold any hogs for less than \$25 a hundred and got \$25.50 for some. His breeding program allowed him to hit the highest markets during the year.

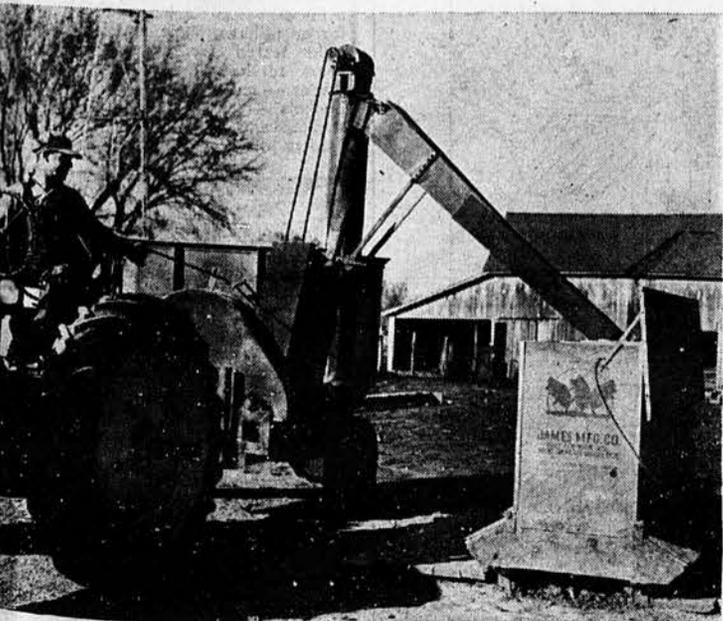
Heat lamps are used for the January-February pigs and the cost is low, reports Mr. Parsons. He figures his heat lamps were in operation 30 days at a cost of only \$11. "They saved a lot of pigs at a very low cost," he says.

One problem Mr. Parsons had to overcome in his lots and sheds was dust, which his hogs would breathe in and which resulted in some health problems. He concreted the floors of 2 barns where his hogs rest. He also plows up his lots every year as a sanitation measure.

Because of a spine injury Mr. Parsons found feeding a difficult chore until he bought a transit feed mixer. "Now I can mix a ton of feed in 5 minutes," he says. As a matter of fact, he doesn't have to do any scooping. He has an auger-type elevator that picks up the grain from his barn bin and elevates it into the mixer. Then, at the feeding end, a spout is lowered into the top of the self-feeders and a turn of the lever does the rest. The transit mixer can do the mixing job either while Mr. Parsons is doing something else or while en route to the feeding area. The mixer also can be used to mix ensilage and grain. "I mix all my poultry feeds with it, too," adds Mr. Parsons.



FEED SCOOPING for Earl Parsons, Leavenworth county. Here he adjusts adjustable motor on auger-type elevator that hoists grain from bin to his feed mixer.



OG LOT all Mr. Parsons has to do to fill self-feeder is turn a lever. Feed ed while equipment is en route from bin to lot.

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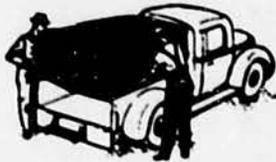
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## Tests of New Fruit Varieties Turn Up Some Promising Results

INFORMATION on promising new varieties tested by Kansas State College was released at the 87th annual meeting of the Kansas State Horticultural Society, at Manhattan, December 3 and 4. Varietal tests on strawberries, grapes, and peaches showed differences of adaptation between the Manhattan experimental station and the Northeast Kansas experimental station in Doniphan county.

Strawberries tested at Manhattan showed Tennessee Supreme, Sioux, Tennesseean and Blakemore most productive for 1953. For the 4-year period, 1948-51, Sioux, Blakemore, Premier, and Dunlap topped the list, according to Ronald W. Campbell, Kansas State College horticulturist.

Erwin Abmeyer, superintendent of the Doniphan county experimental field, thought Sioux, Armore and Premier had been best varieties with Erie, Empire and Vermillion as new varieties of particular promise.

Experiments with a new herbicide to be used with strawberries seem promising, Campbell said. Crag Herbicide No. 1 gives promise of control over broadleaf weeds and grasses in strawberries, and is not as dangerous to

other garden crops as 2,4-D, previously used in this manner.

Results from a series of tests on everbearing strawberries show a new system of 3-row culture to grow more berries than any system heretofore followed, but the number of plants required may make the system too costly. A new everbearing variety, Red Rich, shows up to be a very good producer under all systems used. Fertilizers did not show up well in strawberry experiments in fertile soils, Campbell said.

Strawberries do much better if irrigated in dry years, but for best production should be reworked every 2 years.

Grape varieties which did best at the Northeast Kansas Experimental fields this year were Buffalo, Catawba, Fredonia and Concord in that order.

The peach variety situation in 1953 was discussed by John T. Bregger, chairman of the fruit varieties committee of the American Pomological Society, Clemson, S. C. The search for new varieties is so intense that new varieties are being sold on the market before they can be thoroly tested. Qualities looked for in new varieties are shipping, freezing and canning qualities and to stand cool spring weather.

## COMING EVENTS

January 2—Atchison county Extension executive board meeting.

January 2—Haskell county 4-H Club officers training school, Sublette, 10 A. M.

January 4—Atchison county drouth committee meeting.

January 4—Rice county home economics advisory committee, 9 A. M.

January 4—Rice county executive board meeting, 1:30 P. M.

January 4—Rice county agricultural planning meeting with R. C. Jaccard, of KSC.

January 4—Finney county Artificial Breeding Association annual meeting, Garden City 4-H Club Building, 7:30 P. M.

January 4—Rush county machinery school with John M. Ferguson and Harold G. Gallaher of KSC, LaCrosse, 10 A. M.

January 4—Johnson county Dairy Herd Improvement Association annual meeting, Olathe.

January 4—Osage county egg marketing, diseases and management, Lyndon, 10 A. M.

January 4—Coffey county winter crop school, courthouse, 10 A. M.

January 4—Ottawa county Balanced Farming clinic, Minneapolis, Extension room.

January 5—Atchison-Leavenworth counties Dairy Herd Improvement Association annual meeting.

January 5—Rush county Artificial Breeding Association annual meeting, La Crosse.

January 5—Cloud county income tax and household accounting school, Concordia High School.

January 5—Sheridan county beef, insect and soil, Hoxie.

January 5-6—Rice county meeting on planning with youth with C. R. Jaccard, KSC.

January 5-7—Woodson county crops school with E. A. Cleavinger and Claude L. King, of KSC, Yates Center community building.

January 5-7—Branch Station Conference, Manhattan.

January 6—Atchison county 4-H Club tractor maintenance project meeting, Effingham.

January 6—Mitchell county meeting on farm management with Harold C. Love and Miss Gladys Myers, of KSC, Beloit City building, 10 A. M.

January 6—Anderson county-wide poultry meeting, Garnett, 10 A. M. to 3 P. M.

January 6—Brown county Dairy Herd Improvement Association annual meeting, basement of Hiawatha courthouse, 10 A. M.

January 6—Barton county correlated crops and livestock school, Holsington.

January 6—Rawlins county insect, crops and livestock school, Extension meeting room, 10 A. M.

January 6—Allen county winter crops school with E. A. Cleavinger and Claude L. King, of KSC, Iola, 10 A. M.

January 7—Rush county winter crops and livestock school with L. E. Willoughby and Lot F. Taylor, of KSC, La Crosse, 1:15 P. M.

January 7—Cowley county livestock meeting with Wendell A. Moyer and Ray Hoss, of KSC, Winfield.

## GRANDMA

By Charles Kuhn



### Kansas Farmer for January 2,

January 7—Atchison-Brown counties 4-H farm and home electricity meeting, Horton.

January 7—Rice county 4-H Club leaders training school.

January 8—Norton county winter school, livestock and entomology with Biebery, V. E. McAdams and Dell G. KSC.

January 8—Wilson county crops school, donia.

January 8—Ellsworth county farmers tax clinic.

January 8—Butler county livestock school, Ray M. Hoss and Wendell A. Moyer, of El Dorado, 10 A. M.

January 9—Rooks county 4-H Club chess contest.

January 11—Atchison county drouth committee meeting.

January 11—Norton county 4-H Club training school with Glenn Bussert, of KSC.

January 11-12—Kansas Formula Feed Conference, Manhattan.

January 11-14—National Turkey Federation Convention, Milwaukee, Wis. M. C. Small, executive secretary, Mount Morris, Ill.

January 12—Sheridan county Kansas Art Breeding Service Unit meeting, Hoxie.

January 12—Rice county 4-H Club leaders training school.

January 12—Wabunsee county 4-H Clubers training school, Alma, 10 A. M.

January 12—Clay county leaders training meeting on consumer education, Clay city hall basement, 10 A. M.

January 12-13—National Shorthorn and Shorthorn Show, Denver, Colo.

January 12-14—Annual convention American National Cattleman's Association, Colorado Springs, Colo.

January 13—Rooks county district home demonstration meeting.

January 13—Atchison county 4-H Clubers banquet, Effingham.

January 13—Atchison county 4-H Club pie baking contest, Effingham.

January 13—Atchison county Benton test soil builders meeting, Effingham.

January 13—Kingman county flower show, Kingman.

January 13—Cheyenne county livestock marketing and labor-saving equipment school, Francis courthouse, 10 A. M. to 3 P. M.

January 13—Rice county annual dairy official Breeding Association meeting.

January 13-14—Town and Country Conference, Manhattan.

January 13-15—State Board of Agriculture annual meeting, Topeka.

January 14—Haskell county crops school, Ilette, 10 A. M.

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**Do You Know the advantages of electric fencing?** Do you know the famous international Electric 106' sweat chopper will not short out by weeds? Free information is available by writing International Fencer Co., Inc., 1105 W. Chicago Avenue, Chicago, Ill.

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

**Spring Gate:** Tired of opening gates? Try this one by only pulling a cable. Stay on your vehicle. Write for folder. Spring Gate Co., Lamont, Kan.

**Perrin Self-Locking End Gate Fastener** for pickup trucks. Braces box, easily opened. Lower prices. Information free. Engalo, McPherson 3, Kan.

**Hay Sleds.** Five sizes just as they like. Ready to do. Will deliver. Bruveleit Hay Equipment, Ainsworth, Nebr.

## FARM LANDS

**Strout's Farm Catalog.** Farms, Homes, Businesses. 33 states. Coast-to-Coast. Describes 3,298 bargains. Mailed free. World's Largest, 54 years service. Strout Realty, 20-V West 9th St., Kansas City 5, Mo.

**Get Our List of Farm Bargains.** 60 large and small farms, for spring and fall delivery. Fisk Agency, St. Croix Falls, Wis.

## SEEDS

**Sows Seeds Guaranteed to produce better stands than any other seeds of equal quality.** Berry's genuine Gro-Coated Brand Seeds sold on this sensational guaranteed basis. Hardy Alfalfa \$15.30 bu., Rindm \$16.20, Ranger \$17.85, Red Clover \$20.40 bu., Sweet Clover \$7.95, Timothy \$9.00, Ladino Clover \$34.50, Brome \$18.00 cwt. Write today for complete details of our guarantee and big free catalog of farm, garden seeds, nursery stock. Learn amazing performance of seeds with Gro-Coat protection, 160 grades and varieties. Free samples, any seed. Write now while stocks are large and prices lowest. Berry Seed Co., Box 484, Clarinda, Ia.

**Range and Pasture Grass Seeds**—Native Blue-stems, Switchgrass, Caucasian Bluestem, Blue Grama, Side Oats Grama, Buffalo, Sand Love and many other grass seeds. Hardy dry land legumes Madison Vetch, Madrid Sweet Clover, common Yellow and White Sweet Clover. Write today for low direct prices. Your grass seed specialist. Miller Seed Co., Box 1823, Lincoln, Nebr.

**Hardy Reclaimed Kansas Alfalfa Seed:** certified Buffalo, Ranger, Atlantic Alfalfa; also Sweet Clover, Red Clover, Ladino, Brome, Fescue, Timothy, Lespedeza. Save money, send postal today for catalog, samples, and low freight paid prices. Quick service, satisfaction guaranteed. Serving growers over 50 years. Jack Bowman, Box 615, Concordia, Kan.

**Buy Direct and Save**—Hardest, most drought resistant, highest yielding new Hybrid Rambling Rhizoma Alfalfa, Coosack, Ladak and Ranger Alfalfa; improved pasture and hay grasses. Lowest prices in 21 years. Sam Bober & Sons, Box 751 H, Rapid City, S. D.

**Dependable Hybrid seed corn, 9 numbers.** Certified seed oats. Also non-certified seed. Grass seeds. Write for catalog. Dealers wanted. Joslin Seed Farms, Holstein, Ia.

**Certified Madrid Clover.** Germination 83%. Purity 99.50%. Rolland Klassen, Whitewater, Kan.

**Certified Mo. 0-205 oats.** \$2.00 per bu. Swinger & Alley, Marshall, Mo.

## DOGS AND SUPPLIES

**English Shepherds, Border Collie puppies.** All ages, both sexes, choice colors, faithful workers, satisfaction guaranteed. Fairmount Farms, Cedar Falls, Ia.

**Wanted to buy good collie and shepherd puppies.** Classified Department, Kansas Farmer, Topeka, Kan.

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

**LOST, STRAYED OR STOLEN**  
\$50 Reward return male Collie Shepherd. Reddish brown and white, fairly tall, thin, long nose with pink mark. Telephone 5-6042. Topeka, Kan.

## FUR BEARING ANIMALS

**Chinchillas Are Valuable,** profits high. Finest graded Allied Chinchillas. Start in a spare room or basement. They are clean, gentle, vermin free. Feed cost under \$1.00 yearly. Write for free information. Allied Fur Industries, Inc. Nebraska & Kansas Branch Office, 1114 13th Street, Auburn, Nebr.

**Raise Mink:** Free booklet, pen plans, inside secrets, feed, care. Mink are money makers. Investigate today. Lawrence Moigard, Brigham City 55, Utah.

**HAY AND GRAIN**  
For Sale—Good alfalfa hay. John Kupka, M. D., Haskell, Okla.

## EDUCATIONAL-BOOKS

**AUCTION SCHOOL** Learn Auctioneering. America's Leading Auctioneers Teach You. Students sell actual Sales. Largest school in world. 20 years in Operation. Don't be misled. Term soon. Free catalog. Write **REINCH AUCTION SCHOOL, Mason City, Iowa**  
**Old Books, Know Their Value.** Information free. Write Clinton Book Exchange, Box H311, Clinton, Mass.

**Learn Auctioneering.** Term soon. Write for catalog. Missouri Auction School, Box 8425A9, Kansas City, Mo.

**Ft. Smith Auction School, Ft. Smith, Ark.** Term soon. Free catalog.

## HOME HEATING

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

## FOR THE TABLE

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

Extracted—Pure as bees can make it.  
60-lb. Can Clover, FOB... \$12.00  
12-lb. Can Clover (Postpaid to 300 mi.)... 3.85  
12-lb. Can Mixed (Postpaid to 300 mi.)... 3.50  
Order Promptly — Supply Limited  
**HAHN APPIARIES, 1715 Lane St., Topeka, Kan.**

**BEST TAFFY CANDY YOU EVER ATE**  
Pecan-maple and pecan-vanilla flavors, plain and colors with pecan meats and flavoring. Order now for churches and clubs for holidays. Five ounce sample, 50c; 1-lb., \$1.00; 5 lbs., \$5.00; 50 lbs., \$45.00; 100 lbs., \$85; all prepaid. Guaranteed. P. O. Box 890, Canon City, Colo.

**Popeon white excellent quality 12c pound FOB** or 20c prepaid to zone 6. Minimum 15 lbs. Walter Nelson, Griswold, Ia.

**Smoked Whitefish (Canadian)** 10-lb. carton postpaid \$6.00. Fradet, West Fargo, N. Dak.

## AGENTS AND SALESMEN

**At Last! Something new and sensational in Everyday Cards, 21 for \$1.** Make extra money fast! Show Satin, Velour, Metallic Cards. Get orders easy. Big line \$1 assortments, Scented Stationery, Personalized Napkins, Gift Items, Imprints free. Several \$1 boxes on approval. Puro Co., 2801 Locust, Dept. 487-A, St. Louis 3, Mo.

**BUSINESS OPPORTUNITY**  
**Five Gal. White Paint Free:** to any person instrumental in establishing dealership for "Perma-way," the one outstanding formula that won't peel. Nothing like it. Retail for \$2.50. Reputably and reliably guaranteed. Free delivery. Complete line of one of the oldest and best regular paints also. For dealers prices, write Calvert Paints, Worthington, Ind.

**Sixty Thousand Established Hatchery with broiler and dressing plant, excellent opportunity for two young people.** Write for more detailed information. Pleasant Hill Hatchery, Altenburg, Mo.

## FLOWERS AND BULBS

**Special Iris, Giant Bearded.** 10 colors \$1.00. 25—\$2.00. Deep Pink thrift or creeping phlox, 15—\$1.00. Blackberry Lilies, 12—\$1.00. Postpaid. Estelle Davis, Russellville, Ala.

**PLANTS AND NURSERY STOCK**  
**Free Catalog**—Guide to special vegetable plant offers. Write for yours today. Wright Plant Company, Omaha, Tex.

**OF INTEREST TO WOMEN**  
**Thrilling, Profitable Home Business.** Make fast-seller, chenille monkey trees, dolls, flowers. Terrific holiday demand. Information free. Veiva, Bohemia 2, N. Y.

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

**Women make money at home, spare time.** Sew ready cut Rap-A-Round. Easy, profitable. Hollywood Mfg. Co., Dept. AF, Hollywood 46, Calif.

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

**Typists, hand writers.** Nationally known mailing company provides details of spare or full time earnings, addressing envelopes, compiling lists. Details free. Allied, Box 1149E, Knoxville, Tenn.

**New Towels, large size, assorted colors.** Money back guarantee. 12 for \$1.00. Order now! Murray Hill House, Dept. 336-B, 157 East 31st Street, New York, N. Y.

**Quilting? Remnants?** Silks, cottons, velvets, suitings, satin; samples 10c—Rainbow, Estill Springs 13X, Tenn.

**Embroider Stamped Linens.** Buy direct from manufacturer and save. Send for free catalog. Merrilee, Dept. 413, 22 West 21st St., New York 10, N. Y.

**Good Money in Weaving.** Weave rugs at home for neighbors of \$69.50 Union Loom. Thousands doing it. Booklet free. Union Looms, 163 Post St., Boonville, N. Y.

**OF INTEREST TO ALL**  
**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

**Outdoor Toilets, Cesspools, Septic Tanks cleaned,** deodorized with amazing, safe, harmless powder. Easy, economical to use. Saves digging, pumping. 150,000 customers guarantee satisfaction. Details free. Burson Laboratories, Dept. 0-44, Chicago 22, Ill.

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

**Money-making Opportunities.** Choose from hundreds. Read world's biggest classified medium. Free copy. Popular Mechanics Classified, 200-KF East Ontario, Chicago 11, Ill.

**Handicraft, all kinds, wanted for Craftshop sales.** What can you offer? Want list 3c. Craft-sales, Loganville KF, Wis.

## WANTED TO BUY

**Want to Buy—1 or 5-pow tractor.** Give make, model and price. R. L. Brooks, Cyril, Okla. Route 1.

**Cash for Old Cars any make, model or condition.** Describe fully. Write P. W. Anderson, 2660 Utica, Denver, Colo.

**REMEDIES—TREATMENTS**  
**Free Book**—Piles, Fistula, Colon-Stomach, association conditions. Newest scientific procedures. Thornton & Minor Hospital, Suite C106, Kansas City 9, Mo.

## KANSAS FARMER Classified Advertising

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

**Livestock Ads Not Sold on a Per-Word Basis**

Column Inches	Cost Per Issue	Column Inches	Cost Per Issue
1/2	\$4.90	2	\$19.60
1	9.80	3	29.40

Minimum—1/2-inch.  
Cuts are permitted only in Poultry, Baby Chicks, Livestock and Pet Stock Ads.  
Write for special display requirements.  
Kansas Farmer, Topeka, Kan.

## FILMS AND PRINTS

**6- to 8-exposure rolls 39c.** Jumbo; 3 rolls \$1.00. 12-exposure rolls 55c. Jumbo; 3 rolls \$1.50. Prompt service, satisfactory work.

**L & L PHOTO SERVICE**  
Box 1008 Topeka 1, Kan.

**No Charge**—for developing roll—same day service—pay for prints only—regular size 3c. Jumbo 4c. Refund on prints not good. Established 25 years. Square Deal Photo, Box 1153 D, Hutchinson, Kan.

**20 DECKLEDGE REPRINTS 50c**  
6-8 exposure roll developed and printed 25c; 12-exposure, 30c; Jumbo prints, 4c each.

**TINY'S PHOTO SERVICE**  
Box 1068-KF Topeka, Kan.

**3c Reprints 3c each negative size.** Jumbo size 4c. 8-exposure roll developed and printed 25c. Jumbo 35c. 2 each negative size 38c. 10 billfold size pictures of your photo 65c. 6 5x7 enlargements \$1.00.

## SUMMERS STUDIO

**UNIONVILLE, MO.**

**Eight-Exposure Roll** printed one of each 30c; two each 40c; one each Jumbo 40c. Star Photo, Denver, Colo.

## FEATHERS WANTED

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

## New Crop for Kaw Valley?

**Sugar beets may replace the famous potato crop in the Kaw Valley of Kansas.**

Several tests with this cash farm crop new to the area have been watched carefully. If results prove successful, a million dollar factory is planned by the Holly Sugar Corporation of Colorado Springs, reports the Topeka Daily Capital. Flood, labor and drought problems in the Kaw Valley may turn that area into sugar beet production. Beet samples are being tested for sugar content. Most steps in growing and harvesting beets are done by machines, and little if any irrigation would be needed in the area.

## Grant New Poultry Vaccine License

**First infectious bronchitis vaccine license by the U. S. Bureau of Animal Industry is granted to Dr. Salsbury's Laboratories, pharmaceutical and biological manufacturer of Charles City, Ia.** The firm is licensed to produce and distribute the vaccine, which prevents infectious bronchitis in chickens. The vaccine is safe for healthy birds of all ages, but not recommended for layers while they are in production. To immunize pullets for the laying season, vaccination is recommended about 30 days before start of production.

## Public Sales of Livestock

**Aberdeen-Angus Cattle**  
February 5—Penney & James, Hamilton, Mo.  
February 5—McCorkle, Sales Manager, Smithville, Mo.  
February 10—Chisholm Trail Angus Breeders, Caidwell, Kan.  
February 27—Green Valley Farms, Liberty, Mo.  
February 3—McCorkle, Sales Manager, Smithville, Mo.  
March 20—Ed Polka, Riverton, Nebr., sale at Franklin, Nebr.  
March 29, 1954—Ericson-Thalman Davis, Hutchinson, Kan.

**Hereford Cattle**  
January 13—Willow Creek, Canton, Kan.  
January 23—Walnut Valley Hereford Ranch, Waite Bros., Winfield, Kan.  
January 30—NEK Hereford, Topeka, Kan.  
February 3—Kaw Valley Hereford Sale, Manhattan, Kan.  
February 5—HG Herefords, Colby, Kan.  
February 26—Sam Gibbs, Clay Center, Kan.  
March 1—Marshall County, Marysville, Kan.  
March 3—Great Plains Herefords, Hill City, Kan.

**Polled Hereford Cattle**  
January 12—Golden Willow Ranch, Pittsburg, Kan. Sale at ranch south of Liberal, Mo.

**Duroc Hogs**  
February 3—Kansas Duroc Breeders Association, Salina, Kan. Dean Bell, Secretary, Lebanon, Kan.  
February 6—Vern V. Albrecht, Smith Center, Kan.  
July 30-31—National Duroc Congress Show and Sale, Topeka, Kan. United Duroc Record Assn., Managers, Peoria, Ill.

**Poland China Hogs**  
February 20—Hi Plains Poland China Auction, Colby, Kan. Paul Erickson, Manager, Herndon, Kan.

**GOLDEN WILLOW RANCH PRODUCTION SALE OF POLLED HEREFORDS**



This will be the first sale for the newly organized GOLDEN WILLOW RANCH now operated by WARREN BRINKMAN. This herd was started when he returned from military service and purchased 7 Polled cows. The herd was moved to Golden Willow Ranch in July, '53.

Sale held new heated sales pavilion at the ranch in Missouri which is 12 miles east of

**PITTSBURG, KANSAS**  
on 126 Hwy. or 22 miles north of JOPLIN, MO., on 43 Hwy.  
**75 Head Sell Tues., January 12 - 12 Noon**

**SELLING OUR ENTIRE SHOW STRING**

12 **BULLS**—12 months to 2½ years, sons of CMR Mischief Domino 30th. These are excellent outstanding individuals. Two of the "30th's" sons most recently sold are serving in the herds of Franklin D. Roosevelt Jr., of New York, and Shamrock Acres, of Meridian, Miss. Mr. Roosevelt's bull was first place 2-year-old at the New York State Fair this year.

4 **BULLS**—21 months old—grandsons of CMR Mischief Domino 30th.

5 **BULLS**—16 months to 21 months—one son of CMR Advance Domino 19, herd sire at Hull Dobbs Ranch, Walls, Miss., one son of Mischief A. Mixer, Taussig bred bull of Colorado, 2 sons of Rollo Golden Duke, breeding from Johnson Brothers, of Jacksboro, Tex., and 1 is a grandson of CMR Rollo Domino 40th, a sire used by Alfalfa Lawns Farms.

13 **OPEN HEIFERS**—Fine for 4-H youngsters and next year's show string, 8 daughters and 2 granddaughters of CMR Mischief Domino 30th. One Mellow Mischief heifer, one Larry and one daughter of the 1952 Missouri State Show and Sale champion female.

25 **BRED HEIFERS**—Daughters and granddaughters of CMR Mischief Domino 30th and heifers that carry his service. Some may calve by sale day.

16 **ADVANCE DOMINO FIRST CALF COWS**—Bred to or calves by side by CMR Mischief Domino 30th.

**ALSO A NUMBER OF CLUB CALVES.**

**HERD SIRE:** CMR Mischief Domino 30th owned jointly with O. L. Carrothers, Jasper, Mo. The "30th" is a son of the great sire, CMR Domino 12th and half brother to the World's record selling Polled Hereford, CMR Advance Domino 39th a son of Circle M. Advance Domino. His dam is also the dam of CMR Super Rollo, a Circle M. Ranch herd sire. Golden Plato Aster the bull we purchased at the 1950 National.

**NOTE**—Our sale is the day following the Halbert & Fawcett Sale, Miller, Mo. Sales only 50 miles apart, 2 commercial air lines within 15 minutes driving distance of ranch near Joplin, Mo., and Pittsburg, Kan.

For sale catalog write to  
**GOLDEN WILLOW RANCH, Box 185, Pittsburg, Kansas**  
Bert Powell with this publication.



**Kansas Hereford Association RANGE BULL SALE**  
**Dodge City, Kansas**  
**Tuesday, February 9, 1954**

McKINLEY-WINTER LIVESTOCK COMMISSION CO.

**Selling 200 Head of Serviceable-age Range Bulls**

The bulls will be graded and judged for selling order at 10 a. m. on February 8. Sale at 10 A. M.

Watch the January 16 issue of Kansas Farmer for additional information.

For catalogs and information write  
**TOM SULLIVANT, Sec.-Mgr., 137 East 11th, Hutchinson, Kan.**  
Mike Wilson for Kansas Farmer

**EIGHTH ANNUAL HEREFORD SALE**  
**DICKINSON COUNTY HEREFORD ASSOCIATION**  
OFFERING BOTH HORNED AND POLLED HEREFORDS

**Saturday, February 6, 1954**  
FAIRGROUNDS  
**ABILENE, KANSAS**

**45 SELECTED CATTLE WILL BE OFFERED**




Real Herd Bull prospects and outstanding Foundation Females are included. Our 1954 sale includes 29 Horned Bulls, 3 Polled Bulls, 12 Horned Heifers and 1 Polled Heifer. The bulls are burly headed, deep and husky. Most are ready for heavy service. The heifers include some of the best foundation females ever offered in this event.

**CONSIGNORS**

HOWARD BEETCH & SONS, Carlton  
L. M. BLAKE & SON, Oak Hill  
JAMES H. BOOTH, Abilene  
J. W. BOYCE, Carlton  
GEO. WM. BURKHOLDER, Abilene  
JOHN D. COOK, Abilene  
EARL ELLIOTT, Detroit  
ELWOOD EVERETT & SON, Clay Center  
F. M. FROELICH, Solomon  
HOBSON BROS., Carlton  
V. E. McAdams, Manhattan, Judge

ALBERT JONES, Carlton  
JONES HEREFORD FARMS, Detroit  
KENNETH KOOKEN, Abilene  
MRS. A. W. LEXOW, Detroit  
DAN RIFFEL, Hope  
P. W. RUSSELL, Oak Hill  
WALTER SANDOW & SON, Elmo  
HOWARD SCHUSTER, Hope  
ERNEST SCHWARZ, Gypsum  
T. L. WELSH, Abilene

Gene Watson, Hutchinson, Auctioneer

**SHOW 10 A. M. — SALE 1 P. M.**

For catalogs, write: WILTON B. THOMAS, Box 153, Abilene, Kansas  
**SELLING 45 HEAD ON FEBRUARY 6**

**KAW VALLEY HEREFORD ASSOCIATION**  
**4TH ANNUAL SALE**



**Wed., February 3, 1954**  
FAIRGROUNDS  
**MANHATTAN, KANSAS**

Sale in heated building. Lunch on grounds.

**Selling 55 HEAD Reg. Herefords. Horned-Polled**  
Serviceable age bulls and bred and open heifers, suitable for 4-H and FFA projects. Good honest useful cattle—not overly fitted. Popular bloodlines—previous sale cattle doing buyers good job.

For catalog write  
**W. A. MOYER, 1027 Kearney, Manhattan, Kan.**  
Gene Watson, Auctioneer Mike Wilson for Kansas Farmer

**WAITE BROS.**  
**ANNUAL SALE DATE FOR 1954**  
**IS JANUARY 23 - WINFIELD, KAN.**

Sale will be held in our new sale barn at Walnut Valley Hereford Ranch 3 miles west and 4½ north of Winfield.

**Selling 70 HEAD**  
**35 Bulls - 35 Females**

The Bulls: 6 two-year-olds; 2 yearlings, 4 calves.  
Females: 7 young cows, all have or will soon have calves; 10 bred heifers, 10 open heifers



**HERD BULL POWER BEHIND THE OFFERING**

Domino Lad KTO 111th—the \$9,100 all-time top bull of Nebraska, Domino Lad C 14th sales. Champion at Chadron—a big, yellow bull, heavy boned, 17 sons, 17 daughters and 2 heifers bred to him sell. CA Larry Domino 9th (owned jointly with Ray Rusk) the \$8,500 second highest selling son of the Register of Merit MW Larry Domino 133d, size, thickness and bone to burn, 7 sons, 3 daughters and 7 heifers bred to him sell. OJR JUPITER STAR 12th—the sire of a champion female at the Kansas State Fair, a champion bull and reserve champion female, the same year at Sunflower Futurity and the sire of 8 other champions and top sellers at Flint Hills, South Central Kansas and Oklahoma-Kansas, and Hereford Association Sales. 7 sons, 2 daughters and 7 heifers bred to him sell. Also featuring the get and service of Mischief Aster, a 2,200 lb. son of Bones Stock Farm's Publiacan Aster and—WHR Regality 87th, son of WHR Royal Duke 3d.

For catalogs write  
**KENNETH or BOYD WAITE, Winfield, Kansas**  
Gene Watson, Auctioneer Mike Wilson for Kansas Farmer

**PENNEY AND JAMES 12TH ANNUAL SALE**  
**Monday, February 8, 1954**  
"THE HOME PLACE"  
**HAMILTON, MISSOURI**

**Selling 30 Bulls and 40 Females**

**BULLS**—Featuring the sale of HOMEPLACE EILEENMERE 374TH, many times 1st prize son of Homeplace Eileenmere 999-35th. Other bulls selling are sired by these bulls in service at Home Place. Eileenmere 487th, Eileenmere 999th, Homeplace Eileenmere 999-35th, Homeplace Eileenmere 687th and others. 5 of them are from our most successful show herd. We offer the same high quality as in previous sales. We have a bull for you. Penney & James bulls are working in major herds in most of the states and Canada.

**FEMALES**—In the 40 females we are featuring Homeplace Gammer 6th the senior and reserve grand champion female 1953 International from the same dam as Homeplace Eileenmere 999-35th, bred to Homeplace Eileenmere 375th. There will be many daughters of the bulls that are in service at Home Place. This is one of the greatest groups of Eileenmere bred bulls to be found anywhere. These heifers are selected from a very large group and several head are offered from our show herd. Many of the more sought of families offered, including 3 famous Gammers. Many females selling will carry the service of our many times champion HOMEPLACE EILEENMERE 375TH, Homeplace Eileenmere 687th and Eileenmere 999th. 5 select open heifers sell with breeding privilege.

For sale catalog write to J. B. McCORKLE, Sale Manager, Smithville, Mo.

**PENNEY & JAMES, Hamilton, Missouri**

J. C. Penney & Orin L. James, Owners  
Auctioneers: Johnston, Sims, Good  
**ATTEND THIS SALE CIRCUIT**—E. W. Thompson, Sedalla, Mo., February 6. Harker Farms, Osceola, Ia., February 9. Thousand Hills and Rogers Brothers, Kirksville, Mo., February 10.



Orin James, Manager  
Bert Powell with this publication  
Farms, Sedalla, Mo., February 6. Harker Farms, Osceola, Ia., February 9. Thousand Hills and Rogers Brothers, Kirksville, Mo., February 10.

**WILLOW CREEK HEREFORD SALE**  
**CANTON, KANSAS**  
**JANUARY 13, 1954**

**Selling 54 HEAD**  
**24 Bulls, 30 Females**

For catalog or information write  
**GLENNON CROWTHER**  
Gypsum, Kansas, Route 1, or  
**J. J. CROWTHER**  
Canton, Kansas, P. O. Box 434

We Are Offering a Number of Good  
**ANGUS BULLS**



There are herd bulls in the making, as well as farm and ranch bulls, all of them sired by one of our Tolan Eileenmere herd sires. If you know a good one from a fat one I believe we can show you something that would interest you.

Price in range of anyone interested in producing beef for profit.

**OSCAR LATZKE**  
Junction City, Kansas

**• AUCTIONEERS •**



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

**Dual-Purpose CATTLE**  
FOR SALE  
**10 MILKING SHORTHORN FEMALE**

Eight months to seven years old. Sired by bar's Roan Victory and Erora Dairy King.  
**FRED ROGERS, Menlo, Kansas**

**2 MILKING SHORTHORN BULL**  
For Sale. Ready for service, both from excel and RM dams and roan in color.  
**J. E. EDIGER, Inman, Kan., 6 E. 34**

**LOCUST DELL FARM OFFERS MILKING SHORTHORN**  
Heifers and Young Cows of top breeding.  
**Louis Mischler, Bloomington, Kan. (Osborne)**

**RED POLLS FOR SALE**  
Bull and heifer calves from 5 to months old.  
**W. E. ROSS & SON, Smith Center, Kan.**

**Dairy CATTLE**

**NORTHCREST FARM** offers for sale up to 20 months old. Record of dams up to 1953. Latest model DeLaval magnetic milker \$250. See our herd and new milking barn, the best thing in milking, 12 miles west of Manhattan, Kan. **WESLEY NAUER, Riley, Kan.**

**WISCONSIN DAIRY CATTLE**  
Choice Holstein, Guernsey and Brown Swiss Calves, Yearlings and Springing Heifers. Offered to your farm C.O.D.  
**Dennis R. Grosse, York, Nebr., Bx. 48, Ph. 4**

**HOGS**

**DUROC BRED GILTS FOR SALE**  
Daughters of Fancy Velvet and Red Wave sires. Bred to Red Rocket for February and March litters. These are the best we have ever offered. For further information write or see  
**G. F. GERMANN & SON, Manhattan, Kansas**

**50 HEAD DUROC BRED GILTS**  
**20 FALD GILTS AND BOARS**  
Champion bloodlines, bred to 3 top boars.  
For information write  
**VERN ALBRECHT, Smith Center, Kansas**



### In the Field

**MIKE WILSON**  
TOPEKA, KANSAS  
Livestock Editor

One hundred and seven Angus cattle were dispersed in the November 25 sale held at GLENWOOD FARMS, Overland Park. This sale totaled \$45, to average \$261. Ten bulls averaged \$45, to average \$248. Top bull was Lot 3, Elmer's Gleniee 10th GDI, and sold to George Marlund & Sons, St. Marys, for \$1,200. Two sales shared the top honor of \$725 each. They were Lot 58, Homeplace Burgess 3d, and Lot 83, Leplace Eileen 9th, both purchased by Bucyrus Angus Farms, Bucyrus, Colo. Roy Johnston and Ray Sims were auctioneers.

The TED A. BROWN HEREFORD SALE was held December 2, at Fall River. Fifty-six lots were sold for \$13,450, to average \$240. Fifteen bulls averaged \$230; 41 females, \$244. Wilbur Marland, Eureka, purchased Lot 1, WVHR Domino 8th, for top price of \$425. Conrad Eck, Fall River, purchased the top female, Lot 35, Bonair Richard, 3d, for \$255, and her bull calf sold for \$215 to W. Bauder, Howard, to make a total of \$470. Col. Gene Watson was auctioneer.

Imaxing years of achievement, Fabst Register Paul Wayne (classified "Very Good"), bred by JAKE ZARNOWSKI, Newton, has been awarded the highest honor a Holstein-Friesian sire can attain. He was recently designated as a Gold Medal Proven Sire by the Holstein-Friesian Association of America.

To qualify as a Gold Medal Sire, daughters of a bull not only must have reached a high level of milk production, but also must have attained high standards of body conformation according to the Ideal Holstein-Friesian score card. This 19 daughters which have been classified "Very Good," 5 scored "Very Good," the second best rating a Holstein can achieve. Average for all classified daughters was 82.2.

Production-wise, 14 of his tested daughters averaged an average of 522 pounds of butterfat and 13,889 pounds of milk as against 484 pounds of butterfat and 13,566 pounds of milk for other dams.

Note: The Zarnowski herd was dispersed on November 29; 60 lots were sold for an average of \$29.20 per cow sold for \$5,210; top bull for \$3,100.

In the CHARLES KIMMERLING dispersal and ALFRED SCHNELLE reduction sale at Milking Shorthorns, held November 16, at Harce, Nebr., 44 head were sold. Top bull was purchased by Gordon Gatzemeyer, Gilbert Panzer and Clare Wiltse, 3 buyers of Nebraska, for \$4,000. H. H. Voet, of Home, paid \$400 for the top cow.

Average price paid for bulls was \$300 and for cows \$293. General average of all sales was \$295. Gus Heldebrecht, of Inman, was auctioneer. Pedigrees were read by Hunter, of Geneseo.

On December 7, the KANSAS ABERDEEN-GUS BREEDERS ASSOCIATION held a registered and commercial cattle sale at Dodge City. The 385 head of registered cattle sold up to \$420, this being the bull top and females upward to \$420.

Top bull was lot 91, Prince K 5th, consigned Kansas State College and sold to Bryon Stout, Anita, for \$975. Prince GAC, consigned by Sons Farm, Anthony, brought \$950 on the bid by Scarlett, Harper.

Top female was lot 322, Downy Eri of FR 7th, consigned by Ray Sims, Belton, Mo., and sold to William A. Davis & Sons, Goodland, Colo. Ray Sims and Gene Watson sold the sale, assisted by the various livestock publications.

The 150 bulls in the KANSAS HEREFORD ASSOCIATION range bull sale sold for a total of \$49,317, to make a general average of \$310. The sale was held at Goodland, December 12. Buyers came from Nebraska, Colorado, Oklahoma and Kansas.

Top bull was Lot 154, RF Talsman 62nd, consigned by A. D. Rayl, Hutchinson, and sold for \$10,000 to Hill Construction Co. Colo. Ernie Sherman and Freddie Chandler sold this offering.

Two registered Jersey cows owned by JOHN W. JR., Guda Springs, have received special recognition for their outstanding production record made on Herd Improvement Registry test. Standard Little Beauty produced 9,160 pounds of milk containing 478 pounds of butterfat at the age of 3 years, and Advance Record Queen produced 10,426 pounds of milk containing 497 pounds of butterfat at the age of 1 year and 11 months.

The official tests were made under the supervision of Kansas State College for The American Jersey Cattle Club, Columbus, O., and for periods of 305 days.

A registered Guernsey cow, Sunrise Katy's P.herine, owned by PERRY H. LAMBERT & K. DICKERSON, Hiawatha, has completed official Advanced Registry record of 7,623 pounds of milk and 415 pounds of butterfat on a daily milking for a 10-month period, starting her record as a junior 2-year-old. Katherine is the daughter of the registered Guernsey sire, Walker Farms Paramount, that 2 daughters in the Performance Register of the American Guernsey Cattle Club.

This record was supervised by Kansas State College and was reported to The American Guernsey Cattle Club for approval and publication.

# Now! Thurston Offers You 4 Proved Fertilizers... the BEM BRAND QUARTET

"I'm BLUE CHIP BEM!"  
I find that I'm congratulated,  
Because I am nodulated.\*  
I'm easy drilled, a cinch to spread,  
I'm Blue Chip BEM, the thoroughbred!

"I'm BALANCED BEM!"  
The basic plant foods I supply,  
But what makes me a balanced guy  
Are Secondary Elements,  
That come to you without expense!

"I'm BUMPER BEM!"  
My "Bumper" stands for bumper yields,  
And fast action on your fields.  
Folks will tell you they can't miss  
With BEM BRAND High Analysis!

"I'm BUDGET BEM!"  
If soil tests show the phosphate's low,  
It's Budget BEM you ought to know.  
You'll find me in oh-twenty-oh,  
Just put me down, and watch 'em grow!



## BEAT THE "COST-PRICE SQUEEZE" with BEM BRAND Bonus FERTILIZERS!

One highly important fact stands out in today's farm picture... to be most profitable—to produce to the limit of its capacity—your soil demands the wise use of fertilizer. For this reason, successful farmers everywhere recognize fertilizer as an essential farm production item—one that actually lowers unit production costs by increasing soil fertility and returning bigger yields of quality crops on fewer acres. Fertilizer isn't a luxury... it's a basic farm necessity.

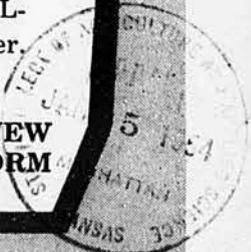
Have your soil tested to determine its needs; then let your dealer help you choose from BEM BRAND'S famous Quartet, available in many grades, one of which is just right for your soil. Regardless of your soil problems, types of crops being raised, or budget limitations, there's a grade of BEM BRAND Fertilizer made for use on your farm. Take your pick of the many profit-making grades available in this famous Quartet... BLUE CHIP, BUMPER, BALANCED, or BUDGET... just be sure it's BEM BRAND, the Bonus Fertilizer.

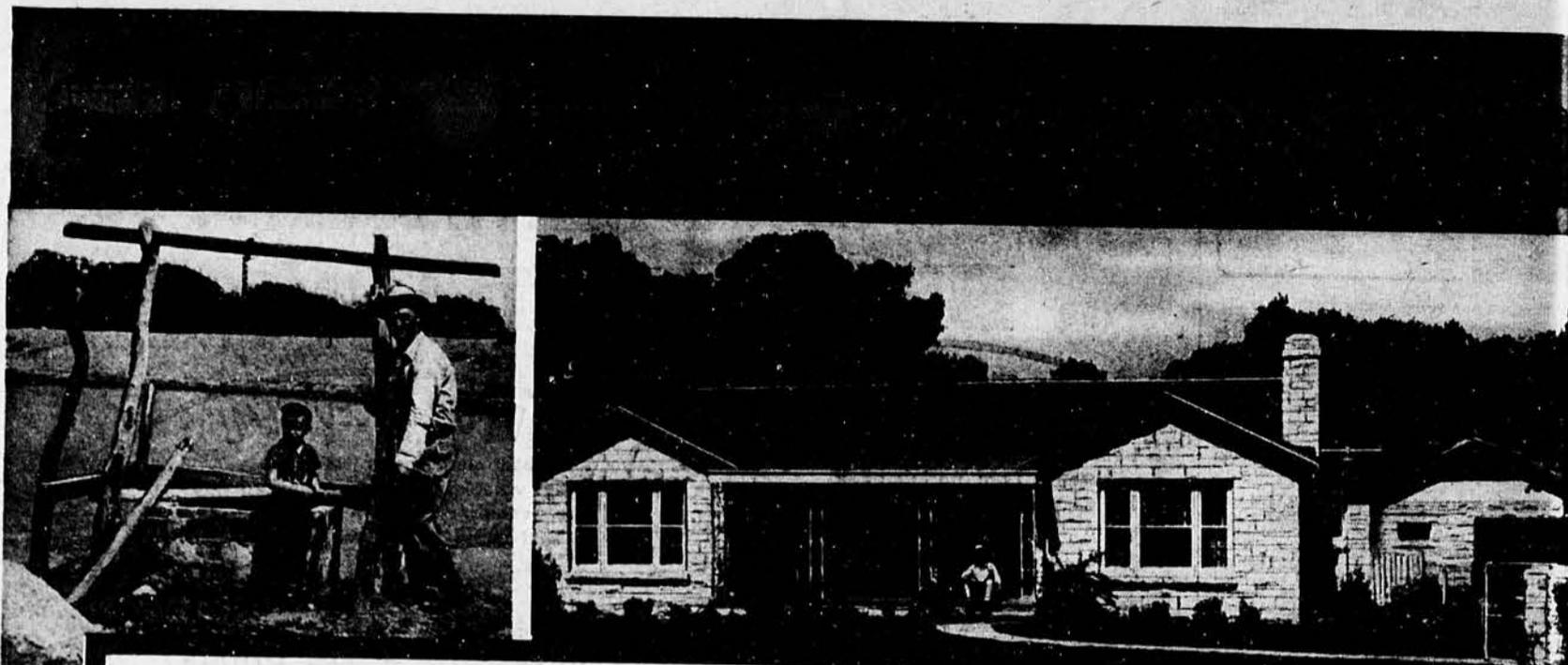
\* BEM BRAND'S SENSATIONAL NEW FERTILIZER IN GRANULAR FORM



**THURSTON CHEMICAL CO.**  
JOPLIN, MO. TRENTON, MO. TULSA, OKLA. LAWRENCE, KAN.

**January 16**  
**Will Be Our Next Issue**  
for the Classified and Livestock section must be mailed not later than Tuesday, January 5, so they will be in our hands by  
**Wednesday, January 6**  
If your ad is late, send it in Special Delivery to 8th and Jackson Sts., Kansas Farmer, Topeka, Kan.





## He Tied Down the Sand to Win a Championship!

Once Joe Kocurek's 400 acres in Seymour, Texas, scarcely deserved to be called a farm. But that was before Joe rolled up his sleeves—before he was named Champion Soil Conservationist of the Miller-Brazos area!

Joe really had a problem. His land ranged from deep sand to tight clay to steep slopes with shallow soil. This didn't faze Joe—here's what he did. First he terraced his steepest cultivated land (production, almost at the vanishing point here, went to a bale of cotton an acre!). Then he terraced *all* his cultivated land so that all farming was done on the contour. He rotated broadcast and row crops to help hold the soil in place. As a further aid to holding soil and water, Joe has planted Austrian winter peas and vetch on almost all his land at one time or another.

Today, Joe's farm is a great testimony to what a man can do with will and work! But Joe did have some valuable help, for this is what he says: "To win my conservation award I had a mighty fine partner—your quality Conoco products, which I have used since I bought my first tractor in 1938. I have had a minimum of wear and repairs to my farm equipment enabling me to perform my work economically. I especially like the way your Super Motor Oil keeps my engines clean."

Why not discover yourself how Conoco Super Motor Oil keeps engines in first-class shape—keeps repair bills at an absolute minimum? Just give your Conoco man a ring. He's got real down-to-earth proof that Conoco lubricants are the very best you can buy for your equipment!

At left, Joe Kocurek of Seymour, Texas, and Joe, Jr., 5, stand by one of the farm ponds that are a big help in watering stock. Above, father and son this time in front of the handsome, spacious Kocurek home. Joe, Sr., built it himself!

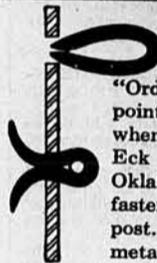
**SPICY SALAD** by Mrs. L. N. White  
R. R. No. 4, Carlinville, Illinois

1/4 cup red hots 1 cup boiling water 1 No. 2 can apple sauce  
1 package red gelatin (cherry, raspberry or strawberry)

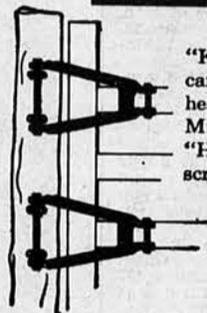
Dissolve red hots in boiling water. Add gelatin and apple sauce. Let cool and put in refrigerator. Cut in squares and serve on lettuce leaves. Top with mayonnaise, if desired.

### Shears for Recipes!

Send your favorite recipes to Mrs. Annie Lee Wheeler, Dept. E, Conoco Cafeteria, Ponca City, Oklahoma. An \$8.95 pair of Wiss Pinking Shears awarded for every recipe published with your name. All recipes become property of Continental Oil Company.



"Ordinary 1/4" staple pinched at point will clinch automatically when driven in 11/32" hole," says Eck White, RFD #2, Cushing, Oklahoma. "Very handy when fastening wire to a round metal post. Works on flat post or the metal, too. Try it, you'll get a surprise."



"Knee action arms from an old car make sturdy hinges for a heavy farm gate," says Michael Murray, Homestead, Montana. "Hang with bolts and heavy lag screws."

Use Conoco Super Motor Oil and you can forget winter wear! For Conoco Super, with patented Oil-Plating®, fastens a tough film of lubricant to moving engine parts such as cylinders and

bearings. Thus these engine parts stay "Oil-Plated," even when your engine is not running. You're sure of easier starting—engine wear is reduced!

Here's the greatest improvement in gasoline since the introduction of tetraethyl lead in 1922! New Conoco Super Gasoline with TCP boosts power as much as 15% for it neutralizes

harmful deposits on spark plugs, in combustion chambers. A new car keeps its power—an older car regains lost power! Find out for yourself—try Conoco Super Gasoline today!

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



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Conoco Super Gasoline with TCP*	Conoco HD Oil
Conoco Kerosene	Conoco Transmission Oil
Conoco Tractor Fuel	Conoco Pressure Lubricant
Conoco Diesel Fuel	Conoco Super Motor Oil
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