

Kansas Farmer



FARMERS ATTENDING the institute were entertained by these Madrigal Singers from Highland Park high school.



BUYING A FARM is like getting married, Peggy of the Flint Hills tells the Watson Farmer's Institute audience. "The owner should promise to cherish his farm 'till death do they part."



IF WE HAD MORE livestock we would have more fertilizer to grow crops, Dr. Rufus F. Cox, head of Kansas State College animal husbandry department, tells institute audience.



WE THINK WE have the oldest farmer's institute in Kansas, says J. B. England, president of Watson Farmer's Institute, which held its 40th anniversary in February.

Forty years old and still going strong. Is this the . . . **Oldest Farmer's Institute?**

OFFICERS of Watson Farmer's Institute, in Shawnee county, believe they have the oldest farmer's institute in Kansas. During February this year they celebrated their 40th anniversary with an excellent 2-day program. First evening program, with Mrs. Martin Hauer and Lincoln Eller as reception committee, consisted of music, speaking and movies.

On the second day the morning was turned over to a farmer's forum. Rohl Land discussed the value of testing dairy cows, John Hiller talked on grass silage in a dairy program, Scott W. Kelsey on pastures in the Kaw bottom, Clarence Engelke on beef cattle on deferred system, and W. P. Worthington on deep plowing.

A feature of the second day was a basket dinner with Mrs. Elwood Allen, Mrs. Sam Arthur and Mrs. Jim Bates in charge.

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- **Bread That Is Bread . . .**Page 26

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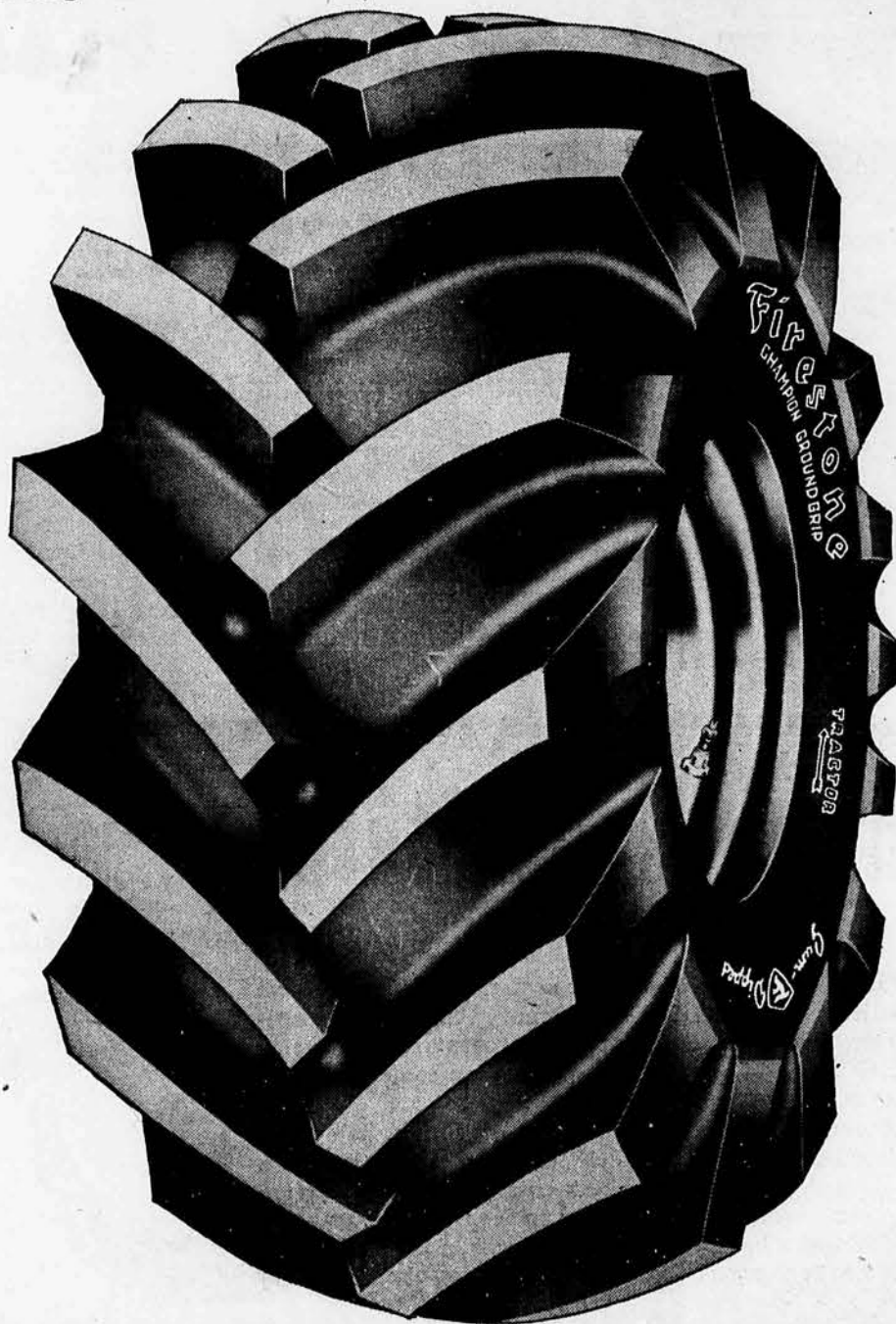
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200 Turkeys Made \$549

FOR 3 years in a row, Estel Schultis' father has raised Broad-Breasted Bronze turkeys. Each year, Estel took on 25 as a 4-H Club project. But last year he took over the whole bunch and starting with 200 birds made a net profit of \$549.16.

He started them in a brooder, heating with propane gas. At 3 or 4 weeks they were on a sun porch running on screen and eating a starter feed. As warmer weather arrived, they were moved to pasture to run on native Buffalo grass.

Toward the last of the season they were fed rolled corn and milo. For a small fee, a lady in Great Bend dressed them for Estel and he marketed them locally at Thanksgiving.

Estel, now in his 7th year in 4-H Club work, kept these accurate records of the turkey project on the Schultis farm in Barton county: His original 200 birds cost \$160. Commercial turkey feed, 9,500 pounds, cost \$466.72. An additional 2,400 pounds of rolled corn and milo cost \$67.50. With other expenses \$27.31, he figured a total cost of \$721.53. This subtracted from total receipts gave a net profit of \$549.16. He raised 168 turkeys, making a 16 per cent death loss. The birds averaged 71 pounds of feed, grossed \$7.56, expenses per bird were \$4.29, and net profit was \$3.27 each.

Estel says mink and beef cattle are chief competitors for his time in raising turkeys.

Expand Wheat Mosaic Studies

At Kansas State College branch Experiment Station near Hays, newly-appointed plant pathologist R. E. Bellingham has begun work on wheat mosaic disease.

His duties will include field surveys and study of wheat problems of western third of Kansas. Field plot work will deal with methods of controlling mosaic. Mr. Bellingham will co-operate with botany and plant pathology departments at Kansas State College, Manhattan.

Kansan Takes USDA Publications Job

Former head of agricultural journalism work at Kansas State College, Charles E. Rogers, has joined the Bureau of Agricultural Economics of U.S. Department of Agriculture. He has served with the information section of Food and Agriculture Organization of United Nations and was head of Iowa State College journalism department. Mr. Rogers' new work will be as supervising publications editor.

Poultry Federation Plans Annual Meet

Annual convention of American Poultry and Hatchery Federation will be July 22 to 25, at San Francisco. This is first year the event has been held west of Kansas City, Mo. For details of convention, write to Kansas Poultry Improvement Association, 310-A Poyntz Ave., Manhattan.

KANSAS FARMER

Continuing Mail & Breeze

ARTHUR CAPPER...Publisher (1893-1951)

121-123 West 8th St.

Topeka, Kansas

Vol. 89, No. 7

H. S. BLAKE...President and Publisher
 Raymond H. Gilkeson...Editor
 Dick Mann...Associate Editor
 Gordon West...Associate Editor
 Mike Burns...Associate Editor
 Florence McKinney...Women's Editor
 Dr. C. H. Lerrigo...Medical Department
 Mike Wilson...Livestock Editor
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 Roy R. Moore...Advertising Manager
 A. E. Carson...Circulation Manager

Member: Audit Bureau of Circulations, Agricultural Publishers Association, National Association of Magazine Publishers.

Published the first and third Saturdays each month at Eighth and Jackson streets, Topeka, Kan., U. S. A. Entered as second class matter at the post office, Topeka, Kan., U. S. A., under Act of Congress of March 8, 1879.

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Livestock Day Comes April 17

BETTER Livestock Day," one of the first and largest annual judging events in Kansas, is being revived this year by Angus breeders of Geary and Dickinson counties. The event is scheduled on the J. B. Hollinger Farm, Chapman, April 17.

This year cattle will include 40 choice head of Angus, all fitted and trained, from such herds as J. B. Hollinger, A. J. Schuler & Son, Ralph & Marvin Poland, and Ralph Dietrich and Vance Collins.

The judging school will start promptly at 9:30 a. m. and be completed by noon. Don Good, A. D. Weber and Prof. F. W. Bell will do the judging. A beef dinner will be served by the Geary County Rural Life Group for a nominal charge. In the afternoon, placing of classes will be explained and a miscellaneous program presented.

Get Judging Tips

Vocational Agriculture classes and local 4-H Clubs are invited to send teams and all the individuals they care to enter. "This is a judging school rather than a contest," says Paul Gwin, Geary county agent, who is handling the event. "It has always been run to give all, not just the best, an opportunity to get experience and inspiration in livestock judging."

Better Livestock Day was started in 1928 by Angus breeders around Junction City and Chapman and was held continuously for 16 years, then dropped thru the late war years. This will be the first revival of the event.

While Angus cattle are used in the classes, the program is to promote good cattle of all breeds, it is explained, and all farmers and breeders of Kansas are invited.

The advantage of holding such events on farms, says Mr. Gwin, is that it gives young boys a chance to see what it takes in the way of buildings and equipment to build a good cattle herd.

To Hold World Grassland Congress

United States will be host to 1952 International Grassland Congress, at Pennsylvania State College, August 17 to 23.

Event is being sponsored by U. S. Department of Agriculture, State and Interior and ECA of U. S. Government, the FAO of the United Nations, interested National Trade Organizations, and scientific societies.

The 1952 meeting will consist of tours, speeches and meetings. Among topics to be discussed by experts from all parts of the world are genetics and breeding, improvement and management of cultivated grasslands and rangelands, soil management and fertilization, seed production and distribution, soil and water conservation, machinery, utilization of forage by livestock, and preservation of forage.

Survey Shows Bigger Crop Acreage in 1952

Kansas farmers intend to grow crops on 23,646,000 acres in 1952—that's 2,805,000 acres more than 1951.

Acreages indicate large increases for such major crops as winter wheat, corn and soybeans, reports Kansas State Board of Agriculture. Rather sharp decreases in acreages planted or to be planted were reported for oats, barley and sorghums. The 1952 acreage indicated for feed grains, including corn, oats, and barley, but excluding grain sorghums, totals 4,021,000—down 7 per cent from the 4,320,000 acres of 1951.



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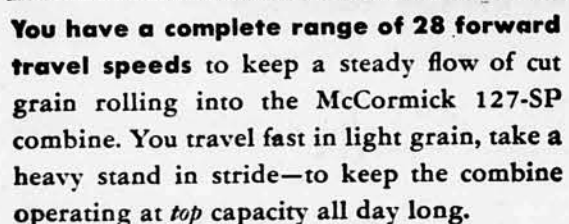
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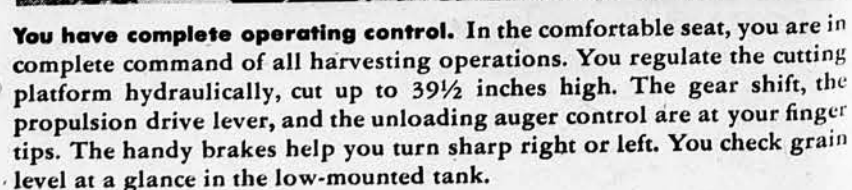
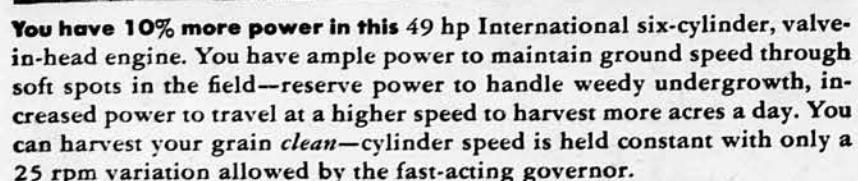
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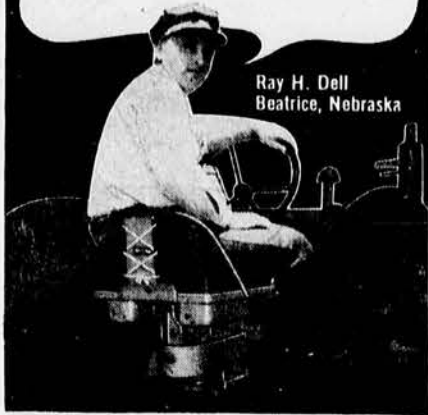
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Ray H. Dell
Beatrice, Nebraska

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Approve Four New Crops

PERRY SOYBEANS, K-3 Sudan grass, Martin combine sorghum and K 1830 yellow double-cross hybrid corn are 4 new crops approved for distribution and recommended for certification by Kansas Agricultural Experiment Station.

Perry soybeans is a high-yielding, high oil content, erect-growing, yellow-seeded variety, matures about 3 days later than Wabash. Variety originated from cross of Patoka by an unnamed hybrid. Perry, in 5-year test, produced average of 3.2 bushels an acre more than Wabash. Oil content of seed is about same as Wabash and 2.6 per cent higher than S100 soybeans. Best use of Perry will be as a full-season variety to replace Wabash, Chief and Gibson in central area of Eastern Kansas.

K-3 Sudan grass is from self-pollinated seed with marked resistance to leaf diseases. Altho not immune to leaf diseases, it had high resistance in 2 worst leaf disease years in history—1949 and 1950. K-3 is later maturing than commercial varieties so should have longer profitable pasturing period with more leaves and tillers staying green longer. There is no seed available at present.

From a Single Plant

Martin combine sorghum is a double dwarf variety, resembles kafir instead of milo. It was selected originally from a single plant of an outcross of Wheatland. Tests show Martin matures about same as Midland, earlier than Westland, and 10 days later than Colby at Kansas Experiment Station near Colby. Midland and Martin head and mature about the same and grow to about same heights. Averaging all tests in this section, Martin yielded 46.7 bushels an acre, Midland 45.1 and Westland, 40.6. In South Central Kansas, Martin ranked 1st in yield, Westland 2nd and Midland, 3rd. In Northwestern Kansas, Martin outyielded Midland and Colby at Colby and Tribune. In co-operative tests on private farms in area, Colby yielded highest, followed by Martin and Westland. Midland was 1st in Southwestern Kansas, followed by Martin and Westland. Experiment field and co-operative tests with farmers in Southwest Kansas showed Martin making highest yield.

K 1830 corn hybrid has proved superior to K 1585 in 6 years co-operative testing by Kansas State College and the division of cereal crops and diseases of U. S. Department of Agriculture. K 1830 is recommended for Southeast and South Central Kansas. In Northeast and North Central Kansas, K 1830 has been high-yielding, but it is likely to mature too late there. Also, results from Wichita and Kingman fields show K 1830 has been high-yielding, but is likely to mature too late there. Also, results from Wichita and Kingman fields show K 1830 is not so well-adapted in western part of South Central section as K 1585.

These research results will greatly boost Kansas crop yields.

KSC Stock Judges Win Third Place

Third place was won by a Kansas State College team at national inter-collegiate livestock judging contest at Oklahoma A & M College, March 19. Another unit team entered by Kansas State College won 8th place in national competition.



"Go ahead, Robby. You only live

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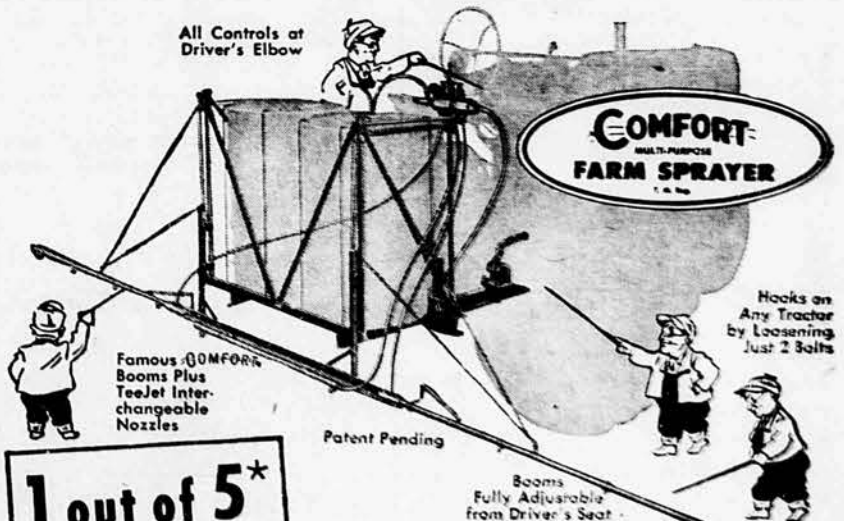
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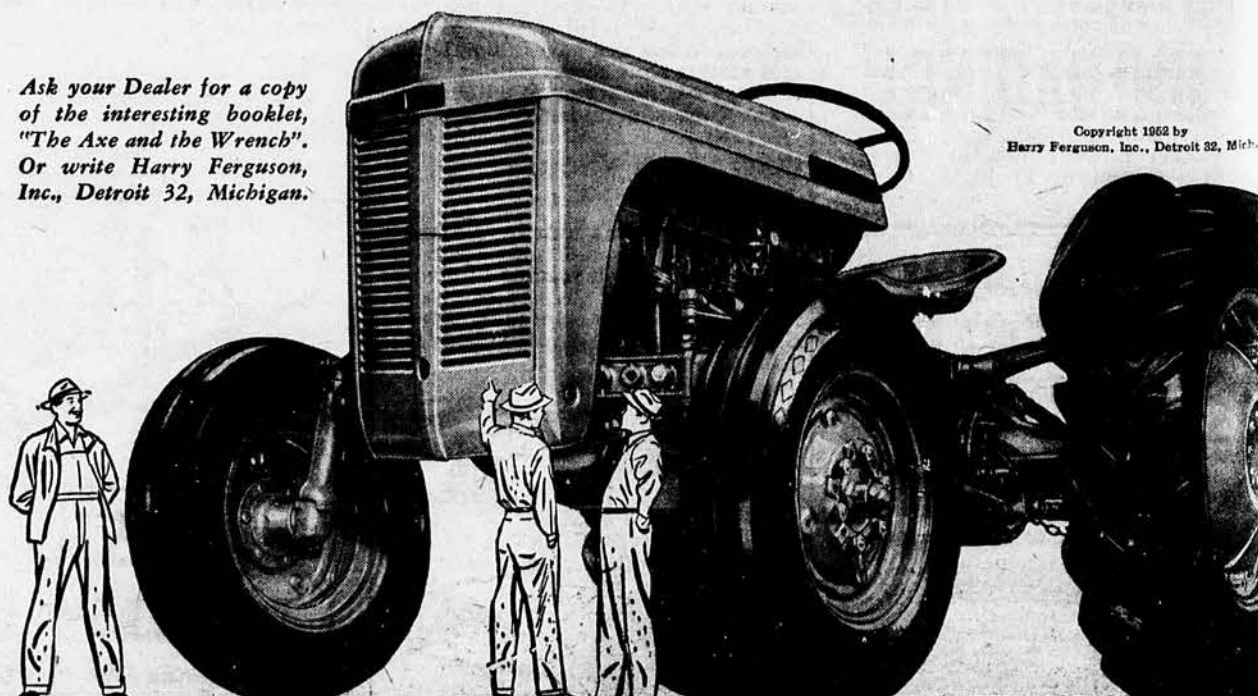
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Miniature Blast Furnace Heats Branding Iron

By RUTH McMILLION



RAYMOND McMILLION, Clark county, lights burner to his homemade branding iron heater.

TO INSURE a ready branding iron, Raymond McMillion, of Ashland, has devised a miniature blast furnace which produces hot irons on windy days and dispels wet-wood worries.

This unit consists of a portable tank of propane gas with a cutoff valve on top. To this tank is attached a 10-foot air hose with a high-pressure meter at the connecting point.

At other end of hose is another valve welded into a 10-inch length of 2-inch pipe. Within this pipe is the burner, a small opening which one lights with a match.

After lighting, burner is inserted into the open end of the 3-foot length of well casing which forms the oven that

houses the irons. Several irons may be moved into the heat or away as desired. However, the burner has proved so efficient 2 irons keep the branding job going.

This portable heating unit may be used in the corral or moved to a range location.

The entire unit—hose, burner assembly, meter—cost less than \$10. Any size propane tank can be used. The trailer-type bottle or the 100-pound bottle. The burner to this unit has proved most effective in thawing frozen farmstead water pipes. The entire heating assembly is worth many times over the wages of an extra hand on cattle working days.

Kansas Sets Up World's First Sorghum Dry Milling Plant

AGRICULTURAL research findings have led the way to a new industry for Western Kansas. The new field of dry milling of sorghum grains. Because this can be done, and because there is an industrial market for sorghum grains has led 300 Western Kansas investors, thru Grain Products, Inc., to let bids for the first dry milling sorghum grain plant in the world. The plant will represent an investment of \$750,000.

Kansas State College staff personnel and others believe the dry milling process to be done commercially at Dodge City will spread to Australia and other countries where sorghums can be grown extensively.

Southwest Kansas leaders who helped start the first plant included the late Ralph Warner; Ross D. Hogue, of Dodge City; E. W. Williams and other Dodge City men like Jess Denious, publisher; D. P. Young, landowner and businessman; Claude Cave, of Dodge City Terminal elevator; Ben Zimmerman, banker; farmers, implement dealers and retired businessmen.

Kansas State College leaders in the new industry included the late Dr. H. H. King, head of chemistry department from 1918 to 1948; Harold N. Barham, professor of chemistry; L. E. Call and R. I. Throckmorton, directors of Kansas State College Agricultural Experiment Station; Ralph E. Silker and Dr. E. S. Stickley, chemistry department.

Success of research and putting knowledge gained into industrial use was supported in large measure by the Kansas Industrial Development Commission from 1944 to 1951.

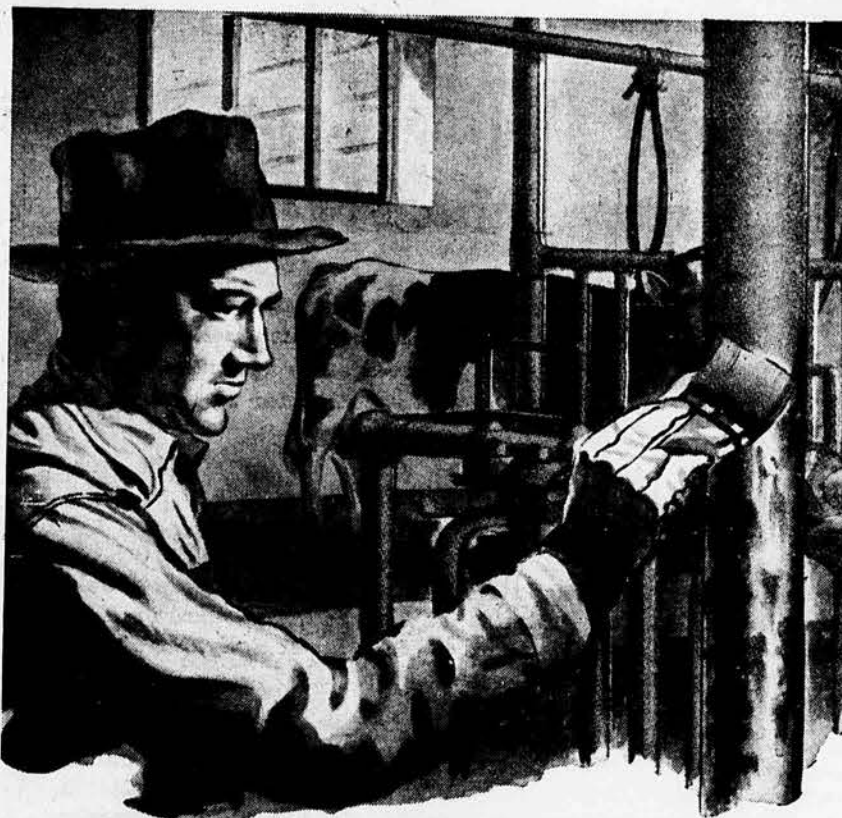
Back in the depression period of the '30's and before, the personal conviction of the late Doctor King was that new uses of agricultural products by industry was the way to handle surpluses, not with government controls.

The Dodge City plant, greatly expanded for the 1952 sorghum grain crop, is putting farmers in a successful industrial market with sorghum grains. As markets for the products increase, Southwest Kansas farmers will become less and less dependent on livestock feed as a market for sorghum crops.

Can Animals Forecast Weather?

Before modern-day meteorologists offered scientific ways of forecasting weather conditions, the ancients had their own ways of telling whether the sun would shine, or other conditions. Animals and agriculture played a big part in these superstitions:

1. When cows bellow in the evening, expect stormy and cold weather.
2. When horses assemble in the corner of a field, with heads to leeward, expect rain.
3. When cows refuse to go to pasture in the morning, it will rain before night.
4. When a cow stops and shakes her foot, it indicates there is bad weather behind her.
5. When cattle collect near the barn door long before night and remain near the barn till late in the morning, expect a severe winter.
6. Expect rain when cattle low and gaze at the sky.
7. If swine be restless and grunt loudly, if they squeal and jerk up their ears, there will be much wind. Whence the proverb, "Pigs can see the wind."
8. When pigs carry straws to their sty, a windstorm may be expected.
9. A double husk on corn indicates a severe winter.
10. If corn is hard to husk, expect a hard winter (Apache Indians).
11. If the first snow falls on moist, soft earth, it indicates a small harvest; but if upon hard, frozen soil, a good harvest.



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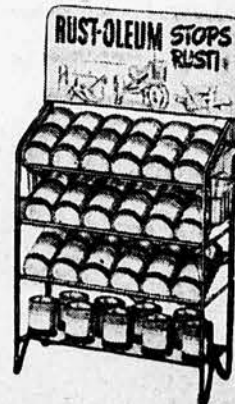
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Worth Its Weight In New Discoveries

Hays Experiment Station greatly benefits whole state. Largely responsible for its excellent progress and expansion is L. C. Aicher, superintendent for 30 years

By Dick Mann

Editor's Note: This is first of 2 stories dealing with history of Fort Hays Branch Experiment Station, at Hays, during tenure of L. C. Aicher, superintendent, who retires in July. Incidentally, the station also observes its 50th anniversary this year.

IN THE SUMMER of 1921 there was serious doubt whether the Fort Hays Branch Experiment Station could continue to operate unless a large portion of research work was abandoned. The legislature had made only a small appropriation for its support. The postwar depression was well under way. The bottom had fallen out of farm prices. Wheat was down from \$2.50 or more to \$1 or less. Sale of station products declined from \$53,000 the year before to \$29,000. Station personnel were depressed and ready to quit.

This graphic description is offered by Dr. F. D. Farrell, now president emeritus of Kansas State College but then director of the Kansas Experiment Station. "I was desperate," says Doctor Farrell. "Then, to climax the situation our superintendent quit early in August on a 3-week notice. It was into this depressing situation that L. C. Aicher came in September. His coming was the beginning of rejuvenation for the Hays station.

"He injected new vigor and applied his superior technical and managerial abilities to every feature of the station's work. His stimulating and constructive influence has dominated operation of the station for 30 years. The public has greatly benefited from his fine service."

[Continued on Page 10]



HERE MR. AICHER examines some of 800,000 pounds of Buffalo grass seed processed at station to overcome dormancy.



THIS AERIAL view looking east shows part of Fort Hays Branch Experiment Station headquarters. The station is completing 50 years of service to Kansas agriculture



SEVERAL THOUSAND farmers, 4-H'ers and Vocational Agriculture students gather at Hays station each year for Annual Hays Round-up and judging contests.



L. C. AICHER, right, discusses progress of a feeding test with Frank Kessler, in charge of feeding experiments, at Hays station. Mr. Aicher retires as superintendent in July.



Kansas Farmer

News and Comment

Welcome to Hays Round-up

IN THIS issue of *Kansas Farmer* on page 8 you will find the first of 2 articles dealing with the history of the Hays Experiment Station, at Hays, during the time L. C. Aicher has been superintendent. When he took over the job the station was at very low ebb. But since 1921, Mr. Aicher and his staff have made Hays one of the outstanding stations in the entire nation.

See for yourself on April 25. That is the date for the annual round-up and feeders' day there. For many years this has been one of the most helpful meetings of livestock men. Every Kansas farm family is invited to this 1952 round-up, final one with Mr. Aicher as superintendent.

On April 25 you will see and hear results of steer feeding trials. Full discussion will be held on experiments with full-fed steers, lotted according to sires and fed alike during the winter. The 1951 calf crop will show interesting comparisons.

Other highlights of the event will give recognition to persons who have been instrumental in building up the Hays Station, which in the 50 years of its existence has become one of the largest branch experiment stations in the world. Results of experiments at Hays have benefited and increased annual income and business for thousands in Kansas and other states.

Speakers on the afternoon program include Dr. James A. McCain, president of Kansas State College; Dr. A. D. Weber, associate director of Kansas Agricultural Experiment Station, and Dr. Rufus Cox, head of animal husbandry department at Kansas State College.

Don't miss the Hays Round-up as it is one of the important livestock meetings of the entire year.

"Freedom"

Editor's Note: The following resolution, passed by The Kansas Livestock Association in annual convention at Wichita, March 13, 14 and 15, expresses the fundamental philosophy of Kansas stockmen and is so important we here reproduce it in full.

WE FRANKLY recognize the fact that the policies and acts of government, which we did heretofore and do now condemn, have been legalized ostensibly under the theory that, by promoting the economic security of the individual, they would abolish want and fear. This, we assert, is the identical false theory on which rests the doctrine of communism, a belief which denies the nature of man, insults the Creator, desecrates our Constitution and violates the Ten Commandments. It has sapped the spirit

and strength of every Christian nation that has indulged it—including once invincible Britain—and is now dismally depleting our own national spirit, pride and power.

We fully recognize the grim fact that, adhering to the false doctrine here condemned, our country has already strayed so far down the easy road to ruin that the way back to righteousness will be rough and hard.

We are quite conscious of the pain that will attend the reversal of our present course. The transition from an untenable artificial economy to the law of supply and demand inexorably decreed by Nature; from the lavish spending of inflated dollars to the enforced exercise of public and private thrift in the use of an honest currency; from dependence on the subsidies of socialism to the self-reliance of enlightened capitalism; this transition, we know, will inflict upon each one of us heavy hardship and stern sacrifice.

But, upholding the old Constitution and honoring the Founders of the Republic, we demand its restoration and, with the help of the eternal, pledge to that accomplishment, as did they, our lives, our fortunes and our sacred honor.

WHEREAS, the Kansas Livestock Association in convention at Topeka 2 years ago passed a resolution entitled "Holding to Freedom," and

WHEREAS, the policies of government therein condemned have continued unabated, THEREFORE BE IT

RESOLVED: That we now repeat and reaffirm our denunciation of those policies with renewed vigor and with determination strengthened by the added evidence of their evil that time has afforded; and BE IT FURTHER

RESOLVED: That we summon all patriots and honest advocates of human freedom to unite and act with firm purpose to recover the natural rights and freedom of which government has deprived them. To this end BE IT FURTHER

RESOLVED: That we will support for elective office, in both federal and state governments, only those candidates who, by word and deed, honestly demonstrate their purpose to reverse the current trend toward socialism and to restore the republic.

BE IT RESOLVED, also, that a copy of this resolution be sent to every representative and senator of the Congress now convened in Washington, to the President and to every candidate who either actively or passively, seeks nomination at the approaching party conventions in Chicago.

It's Your Money

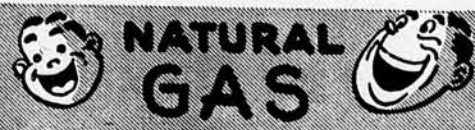
COST of government is your business because it is your money that is being spent. Government never earns one single penny. Government has no income except yours—what it takes away from you in taxes. Unquestionably government costs—and waste—can be cut without reducing in any measure the essential services of government.

The Chamber of Commerce of the United States makes use of a graphic illustration in its program for cutting government costs.

"Each child born today inherits a debt of almost \$1,500 incurred by government. The debt already stands at almost \$6,000 a family, and if present spending plans are carried thru the figure will be a lot higher. We can reduce the burden we are leaving to our children and grandchildren if we have the courage to trim government expenditures."

The chamber would put government spending policies back on a sound basis by:

1. Eliminating waste and inefficiency that



"When white men discovered this country the Indians were running it. Then there was no big debt, no taxes and the women did all the work." Modern man isn't so smart.

"Friendship is the only gold that lasts."

"Darling, are mine the only lips you've ever kissed?"

"Yes, and the nicest!"

"What makes greatness is starting something that lives after you."

"The benefits of early rising are most noticeable when one sits on a tack."

"All men are born equal." That statement may be questioned. "What you equal later on is the point that counts."

"The laziest man on earth holds one record. He can get tired quicker than anyone else."

2. Reducing an overswollen government bureaucracy.

3. Postponing or eliminating spending projects which have no place under the defense emergency.

"Reducing the national 'waste line' will lessen the national tax burden that bleeds white the worker trying to make a living," says the Chamber. "He now pays as much as \$900 direct and hidden taxes on a \$3,500 income and he works every Monday and half of Tuesday for government."

Always Something New

ALWAYS something new—and better—bobbing up in farming. This time it's in dusting crops. By adding an electrical charge into the dust stream, poison requirements may be cut in half. This is reported to the American Society of Agricultural Engineers by Henry Bowen and Peter Hebblethwaite of Michigan State College. The college is developing a machine to do the job and manufacturers have indicated some interest in it.

This new method of dusting makes use of the very small dust particles that apparently do not reach the plant when applied by present methods, the report states. Sometimes dust loss now mounts up to 75 per cent—lost in air or on ground, it is stated. Using the electrical charge method the individual dust particles are given a large negative charge which attracts them to the plant. If present plans pan out the new device will be available at around \$300 more than for a conventional duster.



"I want a girl just like the girl that married dear old dad."



"I saved you some money, Pop. I'll be using the same books next semester."



Two Win Scholarships Thru Kansas Farmer



Joan David



Richard Reinhardt

RICHARD REINHARDT, Neosho county, and Joan David, Cowley county, are 1951 Capper Scholarship winners of \$150, awarded thru *Kansas Farmer*. Announcement of the awards, to be used for study at Kansas State College, is made by J. Harold Johnson, state 4-H Club leader.

Outstanding leadership in 4-H Club activities won scholarships for these 2 top Kansas young people. This is the 20th consecutive year the Capper award has been made.

Joan David, R. 1, Winfield, 18, is a member of Walnut Valley 4-H Club. She has completed 27 projects in clothing, food preparation, food preservation, room improvement, poultry, gardening and junior leadership. Demonstrations, music, health, safety, recreation and promotional talks have added much to her experiences of 8 years of club work. A part of her junior leadership work has been to work with the first-year clothing girls as a class. She helped them in sewing, in judging and in completing project work and records. Of all her project work, clothing has been her favorite. She gets many of her ideas from drafting several patterns into one. These ideas have brought her top awards in both style revue

showings and in many clothing exhibits.

Richard Reinhardt, R. 1, Erie, 18, has a record of 9 years a 4-H Club member. He is a student at Chanute Junior College. During his club career, Richard completed 33 projects, in livestock, crops and leadership. In 1951 he was county leadership champion, has won county honors also in achievement, livestock, best groomed boy. Last year, he was high individual in judging livestock at both Kansas Free Fair and Kansas State Fair. He won a trip to state Round-up at Manhattan as a member of his county folk game group. He has been active in community, county, district and state activities in judging, exhibits, committee work and talks. In high school he was active in FFA work, sports and other activities. He ranked 5th in his graduating high school class. Richard has been an active Sunday school and church member also.

Richard says, "4-H work has always meant better living for the young people who take part in it, to their families and their communities. I sincerely believe we have a better America today because of the aims and accomplishments of 4-H Club work." His leaders think him a worthy 4-H'er.

Worth Its Weight

(Continued from Page 8)

Records show that prior to 1921 the station had indeed steered a perilous course under 7 superintendents in 20 years. Now, as Mr. Aicher retires in his 31st year as superintendent, he can say with pride: "I've been here longer than all the rest of them combined."

But there is more to his tenure as superintendent than just "so many years." As Doctor Farrell points out, Mr. Aicher has definitely played a leading roll in the splendid progress and expansion of the station's program.

And it is no small job. There are 3,264 acres on the station, with 1,622 acres in pasture, 1,442 under cultivation, and 200 acres in creekbeds, roads, feed lots and building sites. "We are leasing an additional 400 acres from the Fort Hays State College and 60 acres from the Frontier Memorial Park," says Mr. Aicher. "This additional land is all under cultivation."

One of Mr. Aicher's first management problems was the dairy project. "We didn't have a decent road to the dairy barns and in bad weather were lucky to get there at milking time," he says. "In 1922 I moved the barns and herd to the main headquarters location. Local dairymen never liked our dairy project, however, as they felt it competed with them for the local market. Because of this local feeling I was not too unhappy when we had to sell off the cows in 1935 to get operating capital to run the farm."

But Mr. Aicher never has felt that way about the beef cow herd. This grade Hereford herd, rated by experts as one of the finest in the Nation, has been built up over a long period of years. "Some folks wonder why we have a grade rather than a purebred herd," says Mr. Aicher. "It is because

work conducted here at the station.

"We were well on our way toward a goal of 150 beef cows when the drouth years hit us," he recalls. "We had to move our cattle east to pasture 4 years because of drouth. Then, in 1939, with finances at low ebb, we had to sell about half the cows, some already with calves. It was the hardest blow I ever had to take."

Since then, the superintendent explains, the herd has been rebuilt and now has reached the 150-cow goal. In recent years breeding experiments have been added to feeding trials. Present breeding experiments are to learn influence of various sires on feeding efficiency of their offspring. Some important results have been obtained already but the study is being continued.

One reason drouth and other setbacks are so serious is that the station is 60 per cent self-supporting. Altho research projects have to be set up on a continuing basis, income at the station has fluctuated as much as 200 per cent. For instance, the station income in 1924 was only \$23,148, while in 1943 it was \$75,605. During the same period expenses averaged \$64,000 a year. Keeping up a fixed program of research projects on such a wide range of income is a terrific managerial problem.

Yet of the present buildings on the farm, only the seed house and soils and crop laboratory were built by state appropriations. All others were constructed under proper authorization, but with funds from sale of products produced on the station.

The Annual Hays Round-up, a highlight of the station's year, already was started in 1921. "As near as I can tell," Mr. Aicher says, "the first

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"With Genuine Pfister I am more sure of a stand, and it always out-yields any other hybrids. For easy picking, proper maturity, and more shell-out, I plant Genuine Pfister."

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Clifford Beckwith,
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WORLD'S RECORD FOR TEN-ACRE YIELD CONTEST
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Here's a brilliant new way of doing your farm work—with Eagle Hitch now built into big 2-plow and 3-plow Case Tractors. In mere minutes you switch from mounted Break-Away Contour Plow to lift-type harrow or planter, from tool-bar tiller to mounted mower. You hustle along the highway and your Eagle Hitch Implements never touch the hard surface. You skip across sod strips or new seeding without your Eagle Hitch Harrow leaving so much as a scratch. You back into corners with a 4-section drag, shake trash from spring teeth at a touch of hydraulic control.

HOOK UP SITTING DOWN



LIVE Power Take-Off

New PTO clutch on big 2-plow "SC" and 3-plow "DC" Case Tractors works from live-power shaft—completely independent of traction clutch and gears. You can bring forage harvester or combine up to full speed before moving into the crop. You can keep machine going full speed when you stop to let it clear out extra-heavy stuff.

Big Break-Away Contour Plows head the long list of Eagle Hitch Implements for the big 2-plow "SC" and 3-plow "DC" Case Tractors. Break-Away feature lets plow uncouple when it strikes stump or stone—protects points, shares, beams—recouples automatically by backing tractor. "Pivotal action" built into plow itself keeps furrow width uniform on contour curves, prevents drifting down-hill on side slopes. Constant-depth principle of Eagle Hitch tends to maintain uniform depth in uneven ground—Case "lugging power" takes you through tough spots. There are also Eagle Hitch disk plows, spring-tooth, spike-tooth and disk harrows—disk bedders and cultivators—roller-packers, planters, mowers—many tool-bar implements—plus front-mounted "look ahead" cultivators.

LIVE Hydraulic Control

New live-power shaft also drives hydraulic pump on 1952 Models "SC" and "DC." You can lift, lower or adjust implement any time—moving or standing, in or out of gear, regardless of traction clutch or PTO. Works with built-in ram for Eagle Hitch Implements, remote cylinder for trailing machines. Famous for fast, accurate action.

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No. 7 in flower series written by a man who grows them by the acre

Hardy Phlox

By FRANK PAYNE

PHLIX is a 100 per cent American flower product and grows well all over America. Did you know wild flowers found growing in the woods late in May, which most of us have always called "Sweet Williams," are really "wild phlox"?

Hardy phlox has the gayest colors of all perennials. No garden is complete without a nice planting. They do well in a border, in a bright, sunny spot or even in partial shade if they can get at least 3 or 4 hours of sunshine each day.

Phlox is real hardy so do not worry about them freezing out. Their culture is quite simple and they are easy to grow anywhere you plant them. You can have them in all heights. There is the extreme dwarf type that hugs the ground, called "phlox subulata." It blooms early in May. The tall, stately types bloom all summer until late fall. Phlox comes in all colors except yellow. If you ever hear anyone complain about not liking white flowers, chances are they never grew any white phlox, because I think the white are just as pretty as the brightly-colored ones.

You can get started growing phlox either in early spring or in fall. Quick and easiest way is to buy blooming size plants from your nurseryman. In a few years you can make many divisions and have a large increase of nice plants. They should be divided and changed in location about every 3 or 4 years.

Need a Rich Soil

Phlox can stand a heavily-manured soil because they like a good, rich soil that is kept moist, but not soggy wet. Be sure soil has ample drainage. When setting out plants dig a deep hole and place the long, hair-like roots right straight down, pressing soil firmly against roots. Be sure eyes or sprouts are only one inch below surface of the soil. That is very important if you wish the plant to do its best. Plant at least 18 inches apart each way.

Water well when planting, also give them plenty of water in dry spells. Best way to water is to turn hose on easy and lay it on the ground so soil will get a good soaking. Do not wet tops of plants or you may start rust on foliage when the sun shines so hot in dry weather. Only trouble you may ever have with phlox is to have blight or red spider. Dusting with powdered sulfur in cool weather will help control them.

Many growers may think their phlox change colors, but that is not so. What really happens, they let the flowers go to seed, the seed drops to earth and lit-

tle seedling plants come up among their parents. But the seedlings do not have the same colors as their parents and that is what makes many think phlox change colors. For this reason, do not allow your plants to go to seed. Keep the flower heads cut off before they form seed pods and your phlox will stay same as original colors. Just nip out flower head only, and new branches will come out along stem.

Very Popular Varieties

I will give you a list of varieties of various colors you can find at most nurseries. They are not the latest new varieties, but have been out long enough to be tested and tried and found very popular everywhere. Their bright colors will give life to any garden.

I also want to speak a good word for "Phlox Subulata" which is a special favorite of mine. It often is called "moss or mountain pinks." If you should have a dull, barren spot of ground, or a rock garden, there is nothing that will give you more color and be so attractive as this low, ground-hugging type of phlox.

Here is a list of 11 good varieties I have grown so can gladly recommend them to you. Some are early bloomers, others midseason or else real late. I am sure you will not be disappointed with any of them.

Name of Variety	Height	Color	Time Bloom
Miss Lingard, medium, white	Early
Mrs. Jenkins, medium, white	Midseason
Count Zeppelin, med., white with red eye	Early
R. P. Struthers, medium, carmine	Midseason
B. Conpte, tall, wine	Late
La Vague, tall, Phlox pink	Late
Thor, medium, peach red	Late
Rheinlander, tall, begonia rose	Midseason
Beacon, tall, cherry red	Midseason
Von Hochberg, medium, deep crimson	Midseason
Bridesmaid, med., white with red eye	Midseason

While this article is mostly about hardy phlox, maybe I had best put in my 2 cents worth about the annual type you can grow easily from seed. You plant seeds late in April and can buy them at any seed store. Correct name of annual type is "Phlox Drummondii." It comes in both tall and dwarf forms. Mixed colors make a regular crazy quilt, producing a brilliant mosaic of colors when sown in your flower bed. If planted in the sun and seed pods removed, they have a long season of bloom. Now you can grow the annual or the perennial type phlox. It doesn't make much difference. Try some phlox so I may have the fun of saying, "I told you so!"

(My next article is about Asters.)

GRANDMA By Charles Kuhn



12-22
CHAS. KUHN

"Sure, I look all right ...but I feel awful!"



"I'm sorry, Boss. I can't help it.... But I've got worms! Large Roundworms!"

"Sure, I know I'm a healthy-lookin' pig—but there's something gnawing on my innards. It's worms! How many? I don't know. Maybe 20, 25, 50 or even 100.

"They make me feel awful. And they're going to make you feel awful, too, because they cost you plenty! At the University of Illinois they say a moderately wormy pig needs \$4.99 more feed—and 5 weeks more time—to go to market than a pig without worms. At the U.S.D.A. they say every worm costs 1.16 pounds of pork.

"That's a pretty stiff price for you to pay for my worms. Especially when you can get rid of large roundworms for only about 5 cents!

"Only 5 cents? That's right, Boss. Just use only about 5 cents worth of MoorMan's E-Z-Ex in my feed. Man, oh man, do those worms skee-daddle!

"You see, Boss, MoorMan's probably know more about pig-worming than anybody else. They were the first to discover the safe, 95% effective sodium fluoride method many years ago—which they now call E-Z-Ex Worm Expeller. And this E-Z-Ex is so easy on pigs' tender tummies that we don't even know we're being wormed! And it's easy for you, too—you just feed the worms out of me.

"So, Boss, take a tip from me and see your MoorMan Man. Get me some E-Z-Ex or Easy-Way. It'll make

me feel so *much* better. And man, will it make *your* pocketbook fatter!"

What is E-Z-Ex? E-Z-Ex is designed for stockmen who want to make their own *safe* sodium fluoride pig-worming ration. It contains:

1. Large roundworm-killing sodium fluoride.
2. A gentle laxative that aids the expelling action.
3. Blood-building minerals that repair worm damage.

What is Easy-Way? Easy-Way is a complete, factory-mixed, ready-to-feed ration. It contains:

1. E-Z-Ex, *plus*
2. A combination of protein and carbohydrate feeds that provide a complete, body-building ration.

Remember—MoorMan's E-Z-Ex and Easy-Way are better 3 ways because 1) they kill the worms, 2) they provide a laxative to expel them, and 3) they contain ingredients to repair worm damage.

Ask your MoorMan Man about E-Z-Ex or Easy-Way. If no MoorMan Man calls, write Moorman Mfg. Co., Dept. J24, Quincy, Ill.

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Success in windrow harvesting depends on careful handling! Patented piston action of INNES PICK-UP picks entire windrow up clean, without wrapping, clogging or shelling. Light and easy to attach. Stiff and spring finger models to fit most combines. FEEDER (for full length combine cylinder) separates and smooths out toughest windrows. Travel 1 1/3 faster, save up to 50% more grain and seed.

Extensive use of this information would increase the state's corn production millions of bushels annually.

Sell the Loafers Now; Here's How to Pick Them

**By TOM AVERY, Department of Poultry Husbandry
Kansas State College**

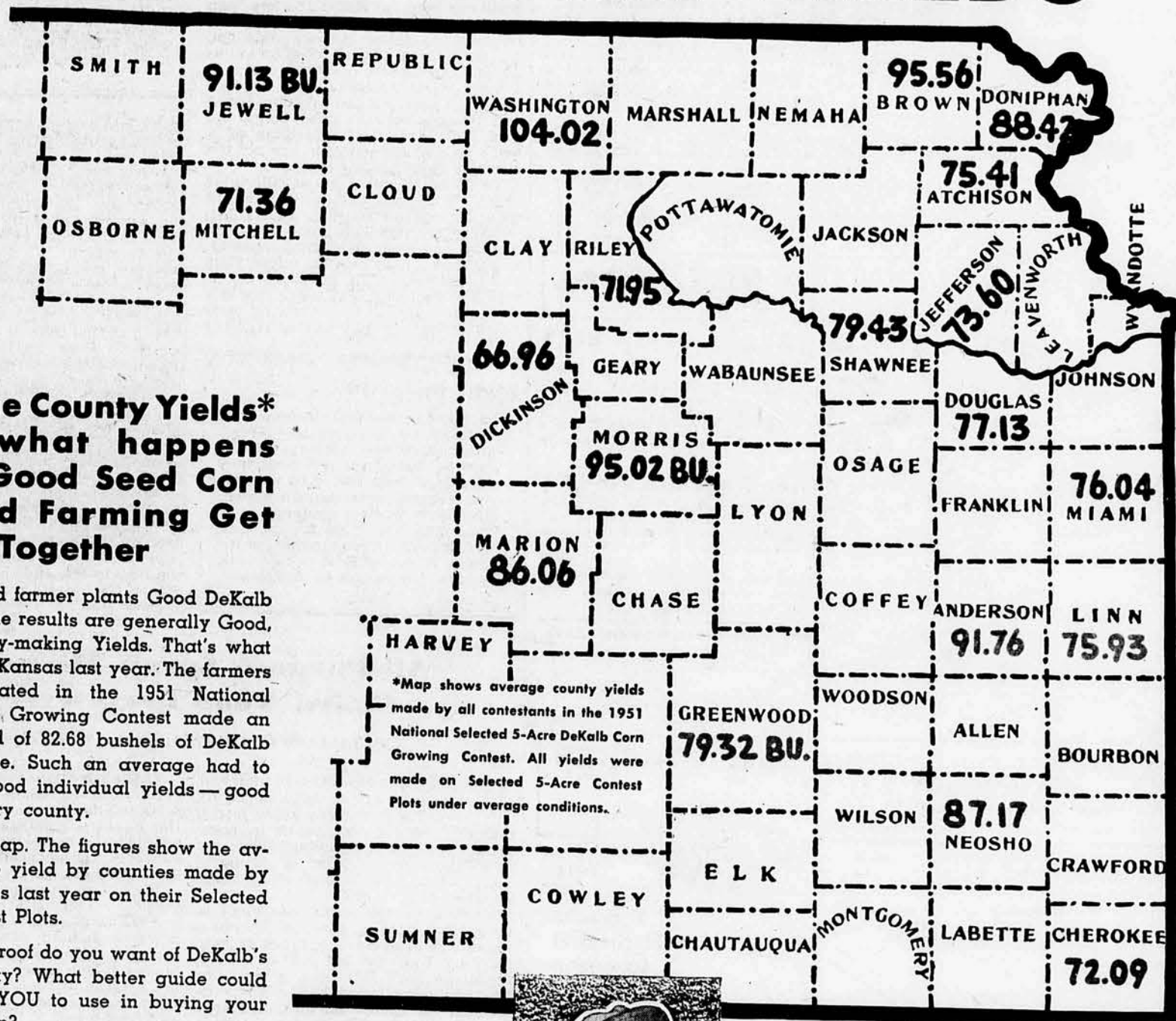
Pigment isn't the only factor a person can use in determining which hens to keep. Pigment tells how long a hen has been laying but it doesn't tell how

(Continued on Page 16)

Renew Those Chairs

We have just received a supply of the small booklet, "How to Upholster It Yourself," by DuPont. Detailed instructions are given for upholstering all types of chairs with new, easy-to-clean plastic. The booklet is illustrated, making the instructions easy to follow. For a copy of the bulletin, please address Farm Service Editor, *Kansas Farmer*, Topeka, and enclose 3c for postage.

Report to Farmers on 1951 KANSAS CORN YIELDS*



Average County Yields* show what happens when Good Seed Corn & Good Farming Get Together

When a Good farmer plants Good DeKalb Seed Corn, the results are generally Good, Sound, Money-making Yields. That's what happened in Kansas last year. The farmers who participated in the 1951 National DeKalb Corn Growing Contest made an average yield of 82.68 bushels of DeKalb Corn per acre. Such an average had to come from good individual yields—good yields in every county.

Look at the map. The figures show the average DeKalb yield by counties made by the contestants last year on their Selected 5-Acre Contest Plots.

What better proof do you want of DeKalb's yielding ability? What better guide could there be for YOU to use in buying your next seed corn?

See your DeKalb Corn Dealer now. And remember, he handles the new DeKalb Chix, too.



1951 KANSAS CHAMP

E. J. Gantenbein, Washington County farmer, won the 1951 Kansas Corn Crown with his yield of 115.77* bushels per acre.

HERE'S HOW IT PAYS TO GROW DEKALB ...that Great Yielding Corn

- 1 During 13 years of DeKalb Corn Growing Contests—41,998 farmers averaged 97.35* bu. per acre.
- 2 During 8 years of DeKalb Contests, 1,007 Kansas Farmers averaged 83.27* bu. per acre.
- 3 Last year, 51 Kansas Farmers averaged 82.68* bushels of DeKalb per acre.



KANSAS COUNTY WINNERS IN THE 1951 NATIONAL DEKALB SELECTED 5-ACRE CORN GROWING CONTEST

County	Name	Yield	County	Name	Yield
Anderson	Glenn Caldwell	102.98	Jewell	Mart Verhage	106.20
Atchison	Kelley Bros.	90.91	Linn	W. E. Hill	87.46
Brown	Edward Hageman	103.82	Marion	J. J. & Martin Klenda	96.49
Bourbon	Cody Bailey	82.88	Miami	Ed Rogers	85.87
Cherokee	Harry Broughton	86.05	Mitchell	A. F. Thille	82.06
Dickinson	Frank Coup	74.03	Morris	W. H. Robidou	99.74
Doniphan	J. J. Barrow	95.20	Neosho	Milo Heilman	92.60
Douglas	Harry W. Tuckel	83.18	Riley	Merton Sylvester	82.39
Greenwood	Stanley Hele	84.31	Shawnee	Elton Glenn	86.05
Jefferson	Raymond Metzger	88.88	Washington	E. J. Gantenbein	115.77

CHEAPER TO DO IT WITH A

Jayhawk HYDRAULIC LOADER



**Simplest
Most Practical
Loader of All**

with
Single, precision
machined cylinder
48" combination scoop
and manure fork

patented automatic load leveler

Get a simplified, quality built, easily attached Jayhawk and do all those time consuming jobs... from manure loading to hay handling... at one-fourth the cost in time, labor, money. Attachments for everything listed below. See the Jayhawk dealer. Write direct for **FREE CIRCULAR**, low prices.

PUSH-OFF STACKER

... builds 18-foot stacks. Other attachments include 8-foot sweep, 3-way bulldozer, 20-foot hay crane, low cost snow scoop.

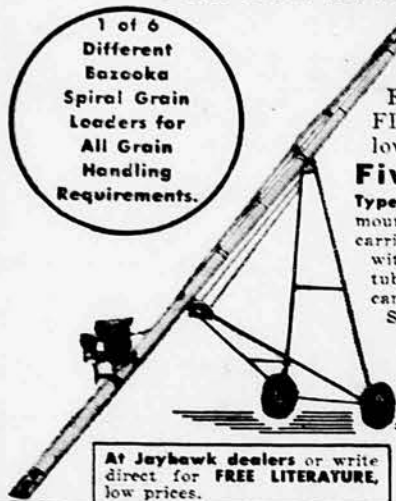


NEW HIGH ELEVATION FLEXODRIVE

BAZOOKA
REG. U.S. PAT. OFF.

FOR USE WITH LARGER GRAIN BINS

1 of 6
Different
Bazooka
Spiral Grain
Loaders for
All Grain
Handling
Requirements.



Made especially for filling 3300 bushel grain bins and similar storage facilities. Elevates to 25 feet at spout. Equipped with special carrier and famous FLENO (flexible shaft) DRIVE. Motor low on tube.

Five Other Bazooka Models

Type A (standard) Flexodrive Bazooka with motor mounted low on adjustable carrier. Type B, with carrier and idler pulley drive. Type C truck unit with universal mounting bracket. Type D upright tube with electric motor at head. Type E with carrier, countershaft drive, for electric power. Sectional tube construction throughout, with 5-10-15-20 foot extensions.

NEW DRAG AUGER ENDS SHOVELING

Makes unloading granaries and grain bins easy.

At Jayhawk dealers or write direct for **FREE LITERATURE**, low prices.

Famous Jayhawk PORTABLE STACKER

Cuts Haying Costs... Makes Better Hay

With a Jayhawk you can sweep and stack right out of swath or windrow... cut haying time and costs... make hay that keeps better, is better all the way through. Works just as well with straw, bundles, heavy forage. Little about it to wear out. Easy on your tractor. Pays out on a ten acre field. See the Jayhawk dealer. Write direct for **FREE LITERATURE** and price information.



**Your
Choice of
Hydraulic
or Mechanical
Operation**

Jayhawk works with any tractor, truck or jeep...

Attaches, detaches in two minutes...

Builds stacks 25 feet high.

THE WYATT MFG. CO., INC. JAYHAWK FARM IMPLEMENTS SINCE 1903
957 5th STREET SALINA, KANSAS

**Invest in Your Future
UNITED STATES SAVINGS BONDS
are still THE BEST BUY**

**Take a Few
Minutes
TO SAVE A YEAR'S CROP**

Why take chances? Minutes to inoculate may save a whole year's crop. More farmers are inoculating... and most of them are using NITRAGIN. When you buy legume seed, remind your dealer you want NITRAGIN, the inoculant in the orange-colored can. It gets results.



THE NITRAGIN CO., INC. • 3708 N. Booth St., Milwaukee 12, Wis.

Sell the Loafers Now

(Continued from Page 14)

fast she lays. Handling quality is used to determine intensity or rate of lay. It is just as important to know how many eggs a hen lays in a week as it is to know how many weeks she has been laying.

Handling quality is measured by feeling the texture of the skin over the abdomen and pubic bones. If the skin is tough and leathery, it means that altho her pigment shows she has been laying, she has laid at a very slow rate. If, upon examining a hen's abdomen, one finds the skin very loose and pliable and of a rather silky texture, it is a very good indication she has laid at a high rate. Spread of pubic bones and distance between pubic bones and keel bone are good indications of a hen's present capacity but are not too accurate in estimating her past.

To do an accurate job of culling at this time of year, one should take all these factors into consideration. A hen showing no pigment, good handling quality, and good abdominal capacity, has laid at a high rate for a long time and in all probability will continue. It would be foolish to cull a hen like this from the flock. A bird showing poor handling quality and lots of pigment

Build a Farm Pond

A good farm pond aids in extra supplies of water for livestock, and for crops during dry spells. Too, a farm pond can supply water for fire protection, orchard and garden spray, fish for food and fun, recreation and for wildlife. "How to Build a Farm Pond," USDA Leaflet No. 259, will help you in many ways. Write Farm Service Editor, Kansas Farmer, Topeka. Price 5c.

hasn't laid enough eggs to pay for her feed and probably won't. She should be culled.

A few breeds of chickens are born without yellow pigment. Some examples are the Minorca, Orpington and Australorp. Most common cross-breed not having yellow skin is the Austra-white. When culling these chickens, one must rely more heavily upon handling quality, abdominal capacity, and general appearance of the bird.

It is at this time of year broodiness begins to show up in some flocks. Broodiness is inherited and regardless of management, if a hen has inherited the tendency she will be broody.

Many poultrymen will put a band on a hen's leg the first time she goes broody. As soon as she goes broody, a second time she goes to market. In the average flock only a small per cent of the birds actually go broody, but because some hens repeatedly want to set it gives one the impression a large part of the flock is broody. It never pays to keep the hens that persist in wanting to set, and they are always a bother. Get rid of them early and most of those troubles are over.

Fight Farm Fires

Every care and precaution should be taken on the farm to prevent outbreak of fire. Water supplies must be readily available; calcium chloride is well suited to provide year-around protection for water, other fire-fighting equipment. If you would like literature on uses of flake calcium chloride, write Farm Service Editor, Kansas Farmer, Topeka. Send 3c, please.

All-Purpose Spray Mixtures Guard Your Fruit Trees

By WILLIAM G. AMSTEIN, Kansas State College

MOST common question in mail and meetings these days is about spraying fruit trees. Many report difficulty or disappointment in their 1951 results from spraying. When we recall the severe weather of last summer, this may be the answer for their disappointing results.

In most questions the statement is made that apples, peaches, cherries, plums and grapes are included in their planting. Until the last year or 2, even for home fruit plantings, a separate type of spray schedule has been recommended for each kind of fruit. Most spray schedules have become longer and more involved, requiring many materials and a greater number of applications. In commercial orcharding, very specialized schedules have been developed, with variations for differences due to variety resistance to insects or disease damage.

However, most farm families with only a few fruit trees and plants have neither the time nor inclination to apply in detail the separate schedules usually suggested for each type of fruit. As a result early each spring there is renewed interest in the problem, but by summer the competition of field work of various types has overcome the desire to do a better job of spraying.

A Fairly Practical Answer

Considerable research and testing work have taken place trying to develop a better and more practical answer on spraying home fruit plantings. For many families with only a few fruit trees and grapevines, a fairly practical answer has now been developed. About the only problem for many today is getting something in useful-size equipment to use in doing the job and taking the necessary time to get it done. All-purpose spray mixtures developed and tested a few years ago by C. L. Burkholder, at Purdue University, and the late Frank Beach at Ohio State University, have made better spraying possible. In addition, co-operation of many manufacturers in assembling, packaging, and distributing these all-purpose materials has further given emphasis to their use. Today several national firms sell this type of all-purpose spray material thru many dealers in Kansas.

This all-purpose formula contains 2 or more materials to handle both insects and disease. The exact makeup of this mixture is naturally not the same as sold by these several manufacturers. However, the general purpose and results work out quite well.

Main item to emphasize where all-purpose materials are used is to read and follow directions given on instruction label. In many cases too few sprays are applied, and of equal cause for trouble is too long delay before any sprays are applied, or there is too long an interval between sprays. Protect foliage and fruit areas.

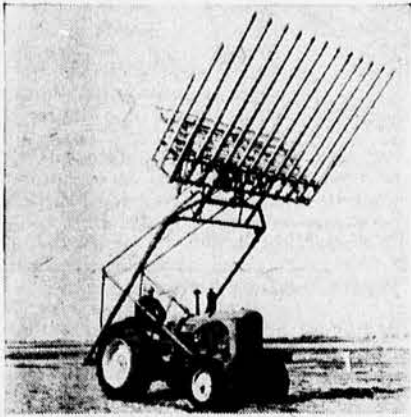
When to Spray

In general, on most fruits, a spray should be applied before bloom, just after bloom, as petals come off, and at 7- to 10-day intervals after that for 2 or 3 applications, or until fruit starts to mature.

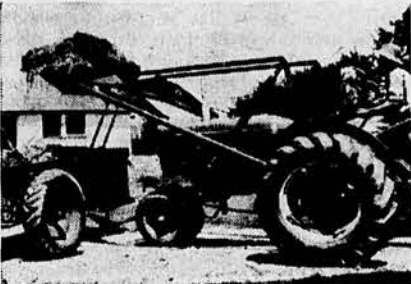
On stone fruits, such as peaches and plums, we have had a good bit of trouble with brown rot in recent years at harvest time. Much of this trouble is due to insect damage that results in injury to surface of fruit and permits brown rot organisms to get started. In most all-purpose mixtures a ferbam material, such as Fermate or Karbam, is used for disease control. Better brown rot disease control on stone fruits will be obtained if wettable sulfur is added to the mixture. In fact many states now suggest use of a sulfur spray during the time peaches and plums are in bloom to aid in checking the blossom blight stage of brown rot. If your peach or plum trees have mummies (dried-up fruits from last year) still hanging on them, you can expect more trouble from brown rot this year where weather conditions are favorable.

Where more than a few trees are involved or if a more detailed spray program is desired, schedules are available that give this information. They can be obtained by writing to Kansas State College, Manhattan, or from your County Agent. Many commercial manufacturers of spray materials also have detailed schedules for distribution. For most folks with only a few fruit trees, an all-purpose mixture properly used will give fairly satisfactory results.

Built To Keep Busy



Another reason why NEW IDEA-HORN Loaders are Leaders



Quick, nimble, rugged . . . master of 101 different farm jobs . . . the NEW IDEA-HORN loader keeps as busy as a harnessed beaver.

Tubular steel frame provides the light-weight but tough strength needed to stand up against everyday heavy-duty lifting, loading and dozing.

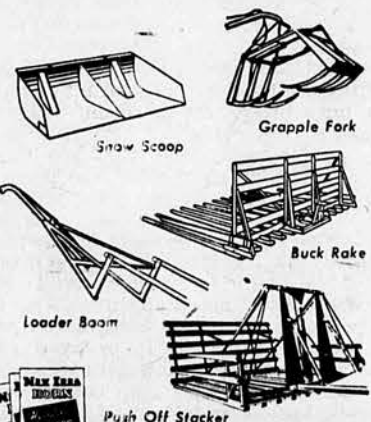
Joints are coped, then welded to maintain full structural strength throughout.

Low profile and fast, high lift result from use of exclusive telescoping lift cylinders.

There are three models to fit practically every well-known make and model tractor . . . along with 10 interchangeable attachments. This gives you a multi-purpose tool with real job versatility.

Ask your NEW IDEA-HORN dealer.

5 of the 10 EASY-ON ATTACHMENTS



SEND FOR FREE
ILLUSTRATED FOLDERS

NEW IDEA SUBSIDIARY
FARM EQUIPMENT CO. **AVCO** MANUFACTURING CORPORATION

Dept. H-220, Coldwater, Ohio
Send free literature as checked

- ☐ New Idea-Horn Loaders
- ☐ New Idea-Horn Stalk Shredders
- ☐ New Idea-Horn Steel Wagon Box

Name _____

Oldest Institute

(Continued from Page 1)

In the afternoon a short musical program was presented by students from Highland Park high school. Wilbur Levering, Shawnee county agent, discussed soil testing. Peggy of the Flint Hills gave a humorous talk on farm life, and the program was completed by a discussion of livestock and feed problems in Kansas by Dr. Rufus Cox, head of Kansas State College animal husbandry department.

Officers of this year's institute were J. B. England, president; W. P. Worthington, Jim Everist and Clarence Engelke, vice-presidents, and Mrs. Carl Bacon, secretary.

This Watson Farmers Institute is just one year younger than Watson Grange No. 1503 which was started in 1911 by Elmer Kendricks a farmer who moved to Watson from the Oak Grange neighborhood.

In the winter of 1911-12, this same Mr. Kendrick organized the first farmer's institute, which was held on February 8 and 9 of that winter. The institute was financed at first by a free-will offering. Next year a home talent play with 10 cent and 15 cent admissions was given to raise money for the institute. After several years speakers were invited in from Kansas State College.

At first, officers of the institute were elected from Grange membership, but later, as now, officers were chosen by a nominating committee from those participating in the institute.

All Are Invited

While Watson Grange No. 1503 sponsors the institute, everyone is invited to attend and the group complies with state institute laws by holding 3 sessions.

According to Mrs. Martin Hauer, secretary of Watson Grange, farm problems 40 years ago were not too different from those of today. She sends us a copy of the first institute program of 1912, which follows:

Address of welcome, E. L. Kendrick. Good of the Grange, W. H. Coultis, Sr.

The influence of a mother in a home, Mrs. Ida McPeak. Silo and silage, T. A. Borman. The earning value of land, J. E. Thompson. Schools, past, present and future, William Casebier.

Tax difficulties, Will Nelson. The old rut, or good roads, which? Laurence Sims. Address, Henry Bartleson.

Address, the work of women, by Mrs. M. L. Kungle. Alfalfa by Henry McAfee.

Agriculture, past, present and future, C. M. Warner. Qualification, Governor Stubbs.

The final evening session was devoted to readings, recitations, dialogs and music. Seibert Roberts was president of the first institute and Mrs. Lisbert Kendrick was secretary-treasurer.

Adult 4-H Leaders Hold State Meet

Annual 4-H adult leaders conference will be held April 14 to 16, at Hutchinson. Community leaders who have served 10 or more years are provided scholarships by Kansas Banker Association to attend. Qualifying for awards are 98 Kansas leaders.

At classes at 1952 conference, Kansas State College Extension personnel will lead in discussing such topics as quality egg program, tips for showing livestock, personal behavior and fun in sewing. There will be entertainment periods provided also.

For April Brides

If you are entertaining for a bride-to-be, the following leaflets will be found helpful in planning the party. They may be ordered from Entertainment Editor, Kansas Farmer, Topeka. Please send 5c for each leaflet.

"Announcing the Engagement," includes several ideas for the party, also menus.

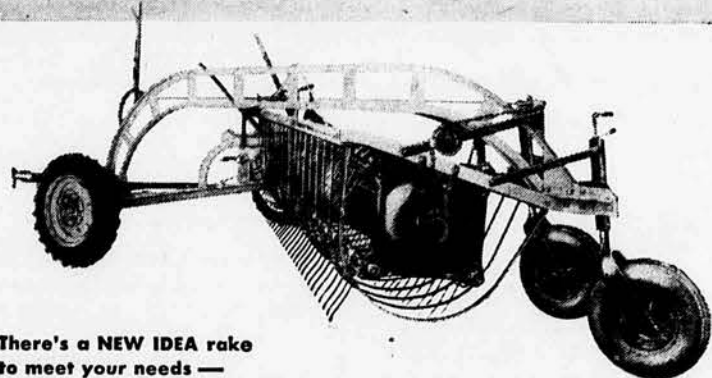
"Sewing Shower for the Bride-to-Be." Lunch table decorations and quiz program suggested.

"Mary Ann's Chapter for Brides and Mothers." Suggestions for church or home wedding, invitations, reception and other helpful information.

Quicker Cure . . . Less Bleach ... Better Hay!



That's why a **NEW IDEA** is a good idea!



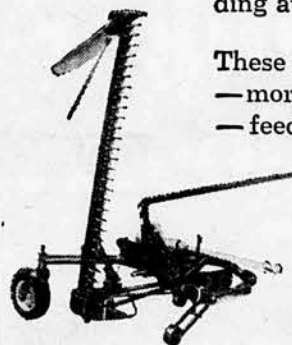
There's a **NEW IDEA** rake to meet your needs —

Two sturdy models to choose from! The low-wheeled rake shown here has husky 5.50-16 implement tires. The high-wheeled version shown in top photo is available with steel rimmed or rubber tired wheels. Both are instantly reversible for tedding.

NEW IDEA's four-bar reel and special double-curved teeth gently fluff hay into a loose, uniform windrow that drying breezes pass through easily. With tender leaves turned carefully to the center of the windrow, the sun works on tough stems, does not bleach as it dries. That means better hay in the barn in a shorter time!

Builders of the first side delivery rake of this type, NEW IDEA has constantly improved rake performance. Latest features on low wheel rake are an enclosed roller chain drive, and oil-bath drive gears. Rakes are adjustable for heavy or light hay — and both are instantly ready for gentle, thorough tedding at the flip of a lever.

These superior raking features mean more protein — more carotene — more total digestible nutrients — feed that stock will clean up to the last spear.



You can get the full story on NEW IDEA rakes from your community NEW IDEA dealer. He'll tell you about the other tools listed on the coupon. Or send coupon for free literature.

NEW IDEA Mowers offer you faster, easier, better mowing. Two quick-hitch types to choose from. Fit most tractors.



Mail coupon today for free folders.

NEW IDEA SUBSIDIARY
FARM EQUIPMENT CO. **AVCO** MANUFACTURING CORPORATION

Dept. 488, Coldwater, Ohio

Check free folders you want:

- ☐ Rakes & Tedders
- ☐ Hay Loaders
- ☐ Tractor Mowers
- ☐ All-Purpose Elevators
- ☐ NEW IDEA-HORN Loaders
- ☐ All-Steel Wagons
- ☐ Steel Wagon Boxes
- ☐ Corn Pickers
- ☐ Corn Shellers
- ☐ Stalk Shredders
- ☐ Manure Spreaders
- ☐ Lime Spreaders
- ☐ Transplanters

Name _____


Address _____

DR. SALSBUURY'S
Ren-O-Sal
 With
G.S. (Growth Stimulation) FACTOR

**Profit-Proved
 By Thousands of
 Poultry Raisers**

"I give REN-O-SAL to my chicks throughout the growing period. Results are faster growth, faster feathering, good coloring and earlier egg production. I continue giving REN-O-SAL to my laying flock."

Mrs. Otto Grotendorf,
 Marine, Illinois



Gives Chicks

Faster Growth
AND
PREVENTS COCCIDIOSIS



**The Preferred Drinking Water Medicine
 In Easy-To-Use Tablet Form**

REN-O-SAL gives chicks 15% faster growth according to tests with 90,000 chickens. Pullets mature quicker at heavier weights. Start laying up to 15 days earlier...and are in better condition to maintain peak production all year long. Additional tests prove REN-O-SAL produces faster weight gains even with Vitamin B₁₂ and Antibiotics in the feed.

PREVENTS CECAL COCCIDIOSIS—Larger dosages of REN-O-SAL prevent

the spread of cecal coccidiosis in chickens. Saves you money by preventing weight and stunting loss.

For many years, REN-O-SAL has been a profit-builder for thousands of successful poultry raisers. You can increase your profits, too. Get REN-O-SAL tablets for the drinking water...or REN-O-SAL powder for the feed. Buy Dr. Salsbury's REN-O-SAL at your hatchery, drug or feed store.

**When you need poultry
 medicines, ask for**

DR. SALSBUURY'S LABORATORIES • Charles City, Iowa

Dr.

SALSBUURY'S

Read the Ads in This Issue

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

U. S. Public Health Service records on suspended and floor type milkers reveal that the Rite-Way Swing Milker is—

**the only milker
 that complies...**

with the sanitary
 construction requirements
 of Item 12r, Section Seven,
 Milk Ordinance and Code
 recommended by the
 UNITED STATES PUBLIC
 HEALTH SERVICE.



Extra large size also available

COMPLETE UNITS
 Regular size \$99.50
 East of Rockies

RITE-WAY SWING MILKER

Accept a free trial offer—see how fast and clean a Rite-Way Swing will milk your cows—no obligation. See your Rite-Way dealer or write Dept. K

RITE-WAY PRODUCTS COMPANY

2810 W. 12th St., Chicago, Ill. 47 • Branches: Springfield, Mo.; Oklahoma City, Okla.

Thoughts TO LIVE BY

Yea and Nay

TIMES do not seem to change very much. We can't help being concerned about the lack of integrity being manifested in our generation. The same situation prevailed in the days of Jesus. Perhaps things were even worse then for it was generally assumed that others were lying unless they were bound by a covenant or took an oath. While Jesus entered into a covenant relationship with his disciples, he laid down a formula which made oaths unnecessary. Our generation needs to hear it again. But let's not jump to the conclusion.

To maintain business and government, society demands that there be some semblance of order. Therefore, when the need arose, men either established a covenant or took an oath.

There were at least 3 general covenants. The first one was very simple. Touching their tongues to the crude rock salt so plentiful in Palestine gave men something in common. This simple salt covenant sufficed for ordinary matters.

Breaking bread together was a deeper covenant. It established the law of hospitality which is highly respected in the East. After men ate a meal together, they were friends. Did not Jesus call Judas friend when they met in the Garden of Gethsemane shortly after the Last Supper? The memory of that word must have stung like a whip.

The third was a blood covenant. Boys use it occasionally even in our society. They will prick their fingers and sign their names in blood, or mingle their blood with someone else's. Blood is the symbol of life, and he who sheds his blood for another can be trusted.

But oaths are another matter. Even they were not impervious to dishonesty. To swear by the temple meant nothing, but to swear by the gold of the temple was binding. To swear by the altar meant nothing, but to swear by the gift on the altar was binding. Pity the honest stranger in a society like that! Perhaps we ought to pity the sick souls and perverted personalities in any age who would so twist the truth and live by a pattern of deceit.

The prescription of Jesus for such a malady is found in the Sermon on the Mount: "Again, ye have heard that it hath been said by them of old time, Thou shalt not forswear thyself, but shalt perform unto the Lord thine oaths: But I say unto you, Swear not at all; neither by heaven; for it is God's throne: Nor by the earth; for it is his footstool: neither by Jerusalem; for it is the city of the great King. Neither shalt thou swear by thy head, because thou canst not make one hair white or black. But let your communication be, Yea, yea; Nay, nay: for whatsoever is more than these cometh of evil."

—Larry Schwarz

To Name Park for Senator Capper

A Washington, D. C., park or playground will be named for late Senator Arthur Capper, it was announced March 12. Decision was made by National Capital Park and Planning Commission, National Park Service and District of Columbia Recreation Board.

ever area is given his name. Plans for provision of statue will be discussed soon with representatives of U. S. Congress. A resolution will be obtained to support establishment of the memorial.

Commission Studies State Scenic Areas

A special commission appointed by Governor Arn to make recommendations for improving Kansas tourist attractions acted March 10 on state rights to scenic spots.

The state may act soon to acquire ownership of privately-owned scenic, historic and recreational points of interest in Kansas. Directors of several state agencies are members of the commission. The group has voted to compile a list of points of interest now owned by the state, recommend how places could be acquired, and will suggest improvements needed to make the spots attractive to visitors.

Chairman of the Commission is Maurice E. Fager director of Kansas Industrial Development Commission.

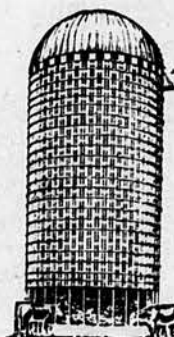


**DODSON
 HAYKEEPER—
 AND SILO**

Only \$38

Delivers
 Balance from
 Income

The New
 Dodson self-
 feeding hay-
 keeper is the
 easiest way to
 feed cattle. You
 can save all the
 leaves and make
 your feed pro-
 duce twice as
 much.



**SAVE ALL
 YOU RAISE**

Use of Dodson
 silo and hay-
 keeper will put
 on more beef or
 butterfat than
 any known feed-
 ing method...
 and do it
 quicker and
 easier... Write
 for literature
 on grass silage.



Send This Coupon Today To
DODSON MFG. CO.
 DODSON, 1463 Barwise, Wichita, Kansas, or
 First and Cedar, Concordia, Kansas.

Send me literature on Haykeeper ☐ Silos ☐
 Dodson Cattle Shed ☐ Dairy Barn ☐ Special
 leaflet on grass silage ☐

NAME _____

ADDRESS _____



**Folks Smiled...When I Said
"I'm GOOCHing My Chicks
Again..."**

**But Nobody Laughs!—At the Profit
"GOOCHing" HELPS ME MAKE!**



**AT LIVABILITY
RESULTS LIKE THESE!**

When more than 1000 Gooch poultry raisers made a special point of keeping accurate records, they reported the amazing average of nearly 97% livability. That was two years ago.

Now, in 1952, continuing improvements including the newest most effective antibiotic (Diamine Penicillin) and Megasul, the proved control for coccidiosis, have resulted in livability records of 99.1% and over—under good farm conditions.

With these latest improvements in Gooch's Best, you too can expect even higher livability than Gooch's Best ever gave you before. So GOOCH your chicks!

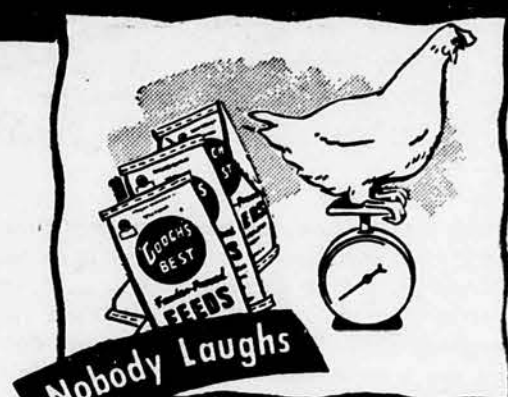


**AT 2 LB.
BIRDS AT 8 WEEKS!**

Two years ago, Gooch Chick Starter was proved outstandingly ahead in its ability to produce fast growth when 300,000 chicks at 8 weeks averaged 2.01 lbs. each.

Now... because of important nutritional advancements (particularly higher efficiency antibiotics and more perfect balance) the 1951-1952 results are showing averages of 2½ lbs. and over at 8 weeks.

If you're feeding for meat, every day saved in reaching market weight is a cash-saving, profit-making day; if you're feeding pullets, those faster early gains may mean earlier egg production. So—GOOCH your chicks!



**AT GAINS OF 2 LBS.
ON LESS THAN 6½ LBS. OF FEED!**

Two years ago, more than 1000 Gooch feeders found it required 3.21 pounds of feed for each pound of gain. What can you expect from Gooch's 1952 Chick Starter?

Many Gooch experiments have shown that 1952 high efficiency Gooch Chick Starter is producing a pound of gain for as little as 2.8 pounds of feed.

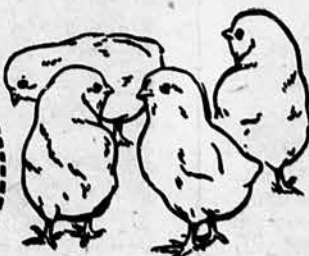
This amazing increased economy in use of feed is made possible by a new and improved antibiotic available for the first time this year and to new knowledge of combining feeds to give a more complete protein and amino acid balance. So—GOOCH your chicks for economy!

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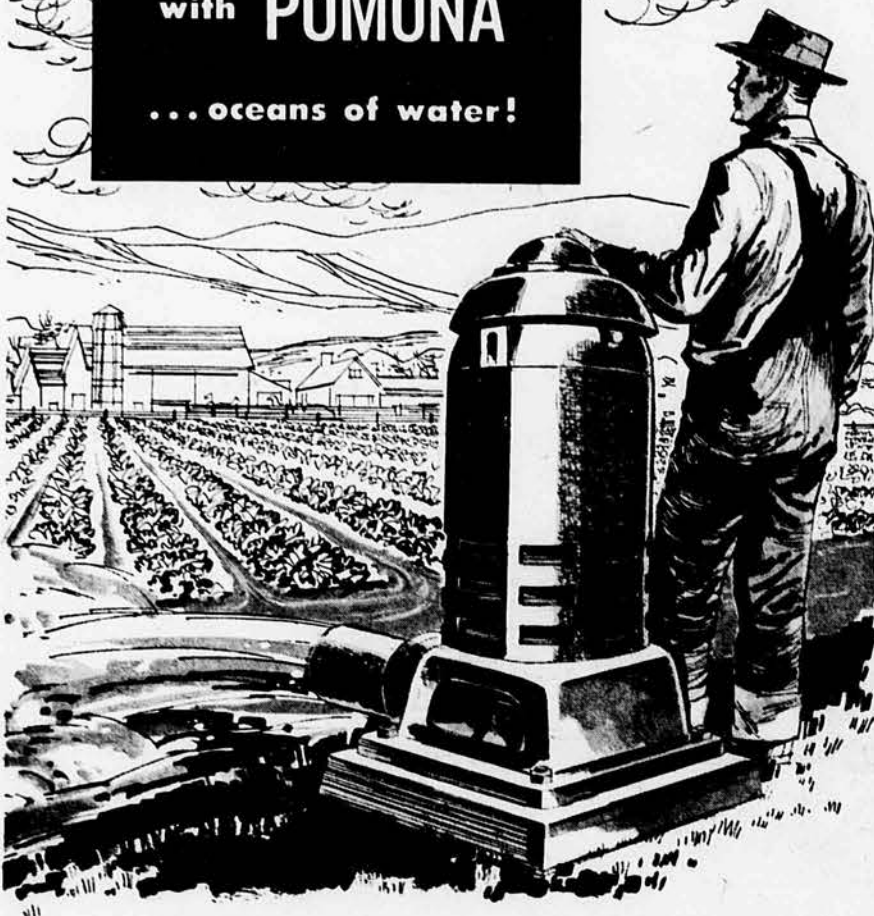
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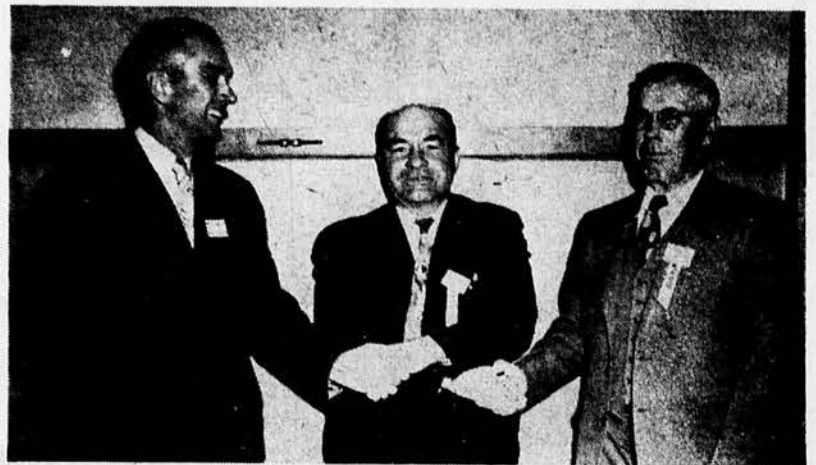
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Livestock Men Oppose Subsidies



BOB WHITE, center, of Garnett, turns reins of Kansas Livestock Association over to C. E. Waugh, Sharon Springs, president, on the right, and Earl Kielhorn, Cambridge, vice-president. (Pictures courtesy Kansas Stockman)

THERE are still 3 frontiers in America," Dr. James A. McCain, president of Kansas State College, Manhattan, told delegates to the annual Kansas Livestock Association convention, March 13, 14 and 15, in Wichita. "These are the frontier of new populations, frontier of new tillable land thru reclamation, and frontier of new farming efficiency," President McCain said. "Research, conservation and education are the tools we must use to expand these frontiers," he explained.

Bob White, of Garnett, president of the association, reported in his annual address that cattle brands now on record total 23,792, a new high. He proposed a tax of not to exceed 2 cents a head be levied on beef cattle to pay for additional "roving" brand inspectors. He also pointed out there is increased interest among stockmen in spot inspection that would eliminate cost to stockmen of regular inspections of all animals.

Where People Are Healthier

"We now know in areas where meat is high on the diet list people have less tuberculosis and are more resistant to many other diseases," reported Rita Campbell, of the National Live Stock and Meat Board, Chicago. "Tests on meat consumption of 600 expectant mothers in Chicago proved both mothers and babies benefited when mothers were given an extra 4 ounces of meat each day during pregnancy," Miss Campbell said. "This increased protein intake resulted in less anemia, fewer abortions and more healthy babies. Babies 6 weeks or older fed meat have fewer colds and less anemia," it was found.

"A new discovery on meat in the diet," says Miss Campbell, "is that older persons (65 or over) need more rather than less meat in their diets."

"Our U. S. population is increasing more rapidly than agricultural production," stated Dr. Herrell DeGraff, Cornell University economist. "We kept up until 5 years ago, then started dropping behind," he said. "Production costs offer farmers the greatest field for bet-

ter efficiency and higher profits," Doctor DeGraff said. Using New York poultry producers as examples, he pointed out that production costs on 40 picked poultry farms in that state ranged from 76 cents to 36 cents a dozen.

Comparing 2 periods—1914 to 1918 and 1944 to 1948—Doctor DeGraff pointed out that in New York the cost of a ton of poultry feed went up 50 per cent, cost of an hour of labor went up 150 per cent and all other costs doubled. "Yet," he said, "some producers showed no increase in cost of producing a dozen eggs. They did it by buying better-quality chicks, using better feeds and more efficient management practices."

Can Improve Feeding

"The cattle industry is lagging behind both poultry and hog industries in feeding efficiency," Doctor DeGraff said. "It once took 650 pounds of feed to produce 100 pounds of hog. Now the better farmers are doing it with 370 to 375 pounds of feed. Work at Iowa indicates that a 225-pound hog now can be produced in 4 months at 325 pounds of feed to 100 pounds of hog."

"Corncocks and other low-quality roughages offer a big field in more-efficient feeding of cattle," Doctor DeGraff said. "We may need to select different kinds of cattle to profit from a low-quality supplemented roughage diet," he explained. One of the truly great frontiers in the cattle business is the rumen of the cow," Doctor DeGraff said. "We don't know enough about what is in the rumen and what activities really take place to make any great improvements in feeding efficiency."

Questioning further need for OPS regulations, a Safeway Stores representative pointed out that 13 products required nation-wide distress promotion in the first 2 months of 1952 because supply was much greater than demand. "More than 50 per cent of all grocery items are now selling below ceilings," he said. Inflationary spending by Government is the real villain, he pointed out, and makes it necessary to keep raising ceilings on prices.

(Continued on Page 21)



A SPECIAL award for 31 years as superintendent of the Ft. Hays Branch Experiment Station was presented L. C. Aicher, retiring superintendent, by Dr. Rufus F. Cox, head, animal husbandry department, Kansas State College, at the annual Kansas Livestock Convention, Wichita. Gov. Edward F. Arn, right, is an interested observer.

"In addition to interfering with flexibility of retail selling," it was said, "OPS budget for next year will saddle an extra 150-million-dollar administrative cost on the taxpayer. OPS cutting and trimming regulations that allow only a 45-pound trim on a 500-pound carcass are also out-of-date, the store representative said. "Because the modern housewife wants only the lean meat we have been trimming about 100 pounds. OPS requirements mean the housewife now is paying top price for meat that should be trimmed and sold at a lower cost." In a final blast, the representative said, "OPS has cut retail profit of 126,000 U. S. grocers to less than one cent for each dollar of volume."

Stephen H. Hart, Denver attorney, explained to stockmen the provisions of the new income tax regulations that allow owners of breeding stock to pay tax on one half the profits where such breeding stock is sold.

Waugh Is President

C. E. Waugh, of Weskan, was elected president of the association. Earl Kielhorn, of Cambridge, was elected vice-president. New directors elected are LeRoy Johnson, of McPherson, and Murton King, of Potwin. R. H. Joyce, of Ulysses, was elected to fill the unexpired term of the late A. F. Cyr. George Andrews, Kanopolis, filling an unexpired term, was elected to serve a full term.

Governor Edward Arn pointed out to stockmen some benefits agriculture is receiving as the result of recent state legislation.

Resolutions passed by the association were, in brief, as follows:

Opposed reimposing of cattle slaughter quotas. Asked for Congressional study of present conditions in meat trade under OPS ceilings to determine why consumers not getting benefit of lower prices. Urged thoro study on possible reduction of welfare costs and approved lien clause on property of anyone receiving aid.

Requested Secretary of Agriculture Brannan to quit promoting socialistic programs. Accused bureaus of infiltrating agricultural operations with regulations and controls never intended by Congress, and asked individual farmers to fight such efforts.

Requested U. S. Bureau of Animal Industry to permit and authorize multiple-dose packaging of desicated strain 19 Brucellosis vaccine. Urged all cattlemen to become familiar with the Kansas brucellosis program and to lend support and co-operation toward eradication of brucellosis.

A Word to Congress

Urged Congress to support only those bills on transportation which are in interest of public and livestock industry. Urged co-ordination of all agencies work on flood control; asked that control of run-off water where it falls be given equal importance to building of dams.

Asked state to continue efforts to negotiate truck reciprocity agreements with other states to insure free and unrestricted commerce. Recommended that Kansas Livestock Association cancel its membership in U. S. Livestock Sanitary Association; that individual members cancel theirs, and that all government agencies and Congress be notified that the National Livestock Sanitary Association no longer speaks for Kansas livestock producers.

Oppose Subsidies

Opposed government subsidies and price ceilings in connection with production and sale of meat animals and meat and meat products; opposed all restrictions and price-fixing on meat animals, meat and meat products and feeds.

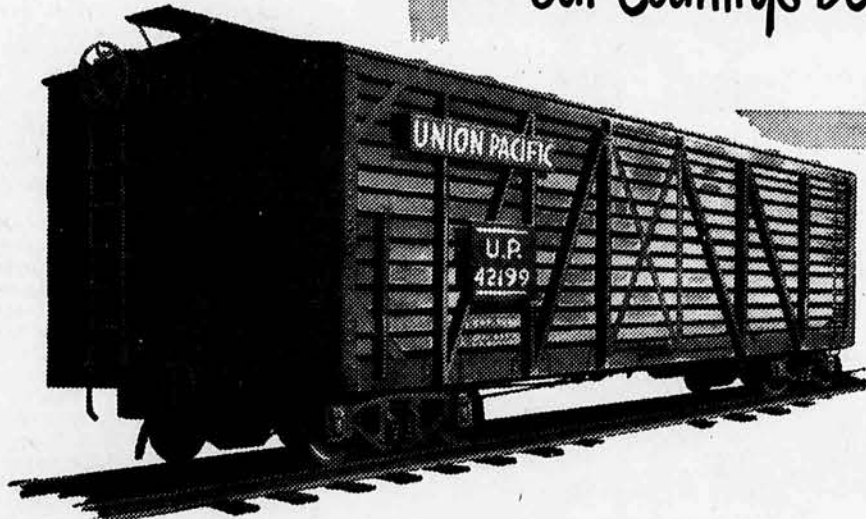
Urged Bureau of Animal Industry to help Canada prevent spread of hoof-and-mouth disease; asked for extreme care in importation of breeding animals from infected areas and thoro check before reopening the Mexican border.

Implored the Federal Government to designate agriculture as a critical industry, to adjust draft quotas to current population figures, and to include veterinarians with farm laborers as essential workers. Asked for drastic revision of hunting and fishing license requirements and penalties so as to better protect fish and game and farm property.

Asked that next legislature assure money for new animal science building at Kansas State College. Asked Con-



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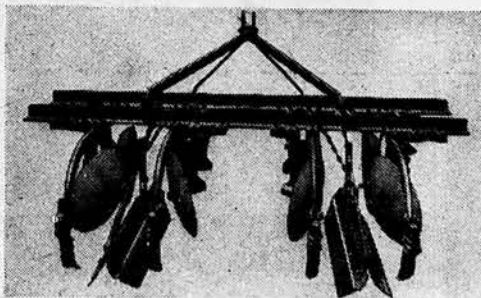
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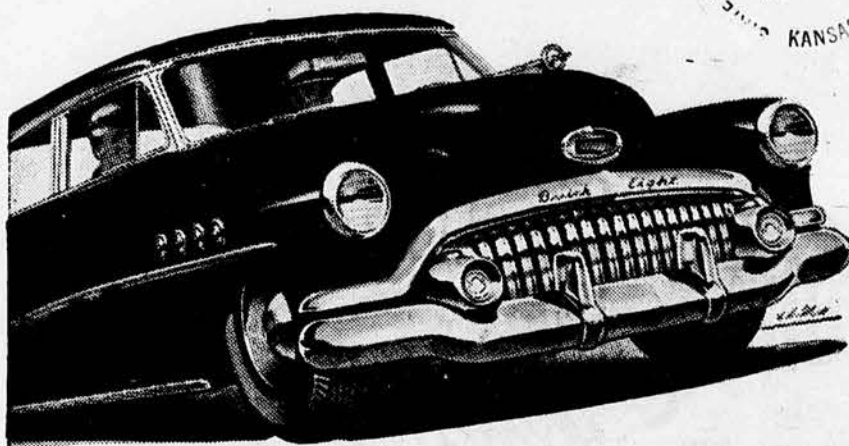
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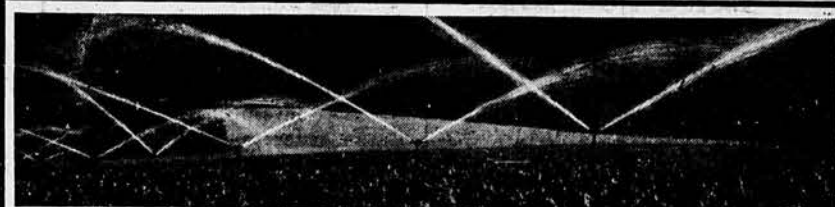
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No. 3 in a series of articles by
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Let's Take a Trip To Hawaii!

By Preston Hale

DEAR EDITOR: (January 4, 1952.) I hope I can describe pineapple production to you for it is a very different type of crop, when compared to crops we produce in mid-United States. We are very fortunate to have a friend such as C. I. Kern to make arrangements for us. Ike is now in the central office of Hawaiian Pineapple Company doing educational work. We also had Bob Singleton, a former 4-H boy from Wyandotte county and a graduate of Kansas State College, in our party. Bob is assistant manager in charge of planting on Oahu; that's some job as they have 15,000 acres of pines here. Then we met Logan Hazen, also who did work at Kansas State; he is assistant superintendent of harvesting. So, again you see the strong influence of Kansas way out here in Hawaii.

All Hawaiian Pineapple Company's land is terraced (25,000 acres). Said to be largest conservation project in the world. Most plants are planted on contour. Roads are spaced at 110-foot intervals so 60-foot spray booms and picking booms reach halfway across. This is important because they spray many, many times. There, iron sulphate goes on ever so often because the iron in the soil which is very high is locked up in the soil and cannot be used by plants, yet there is as much as 35 per cent iron and aluminum compounds in the soil. We in Kansas don't seem to understand why phosphate becomes fixed in our Kansas soils—Hawaiian growers know what "locked up" plant food means.

Good Fertilizer Users

While we are talking about plant food let's go over the fertilizer program used in pineapple production. No fertilizer is used during the first 3 months after a new setting of pine slips, except that available from the large tonnage of organic matter that is worked into soil. It's really a 6- to 8-month summer-fallow period before planting. After plants are 3 months old, fertilizing starts. Fertilizer is deposited right in base of leaves, near ground. Leaf samples are taken many times during the 3-year growing period when there is an indication of a plant food shortage; then fertilizer is applied. During the 3-year period, from 2,600 to 3,000 pounds of high-test fertilizer are used per acre. All 3 elements—nitrogen, phosphate and potash—are used.

Large spray rigs are used to apply insecticides as well as sulphate of iron. In some dry areas, a spray of same type is used to spray-irrigate. Some plantations also spray on nitrogen, as we have started to do in our apple and peach production in Kansas. Another use for big spray rigs is to apply hormones to bring about a more uniform fruiting. Weed sprays are applied near ground, about as we do on corn. Weeds

also are controlled thru use of mulch paper.

Usually, 3 years is as long as pines are allowed to remain in a field. First year or about 18 months after planting, the best crop is harvested. These are the big, select pines. The second crop is known as the first ratoon and third crop as second ratoon. Of course, there are several pickings of each crop, same as we pick peaches or any of our fruits. We saw a big field harvester at work; it was estimated it would pick 90 or more tons a day. In tail-end pickings it runs as low as only 7 tons.

Wish you could have been with us when we went out into the field and selected some of those choice pines and ate them with all the relish of a good, sweet, cold watermelon in the Kaw Valley.

Use Big Machines

After 3-year-cropping period, giant machines like our one-ways, only larger, chop up all old stems and leaves and a very large disk plow turns them under 12 to 14 inches. This is all done with one machine. All field preparation is done on the contour—except some plantings on level land.

The field then is (summer) fallowed several times in next 6 to 8 months, about like our Western Kansas wheat farmers do, only much deeper. This soil is a dark-red clay; it's really beautiful to see those red strips on contour across sloping hillsides. If it were not for 45 to 100 tons of trash worked into soil, this fallow period would see heavy erosion, especially in areas where total rainfall is 40 inches, 60 inches, 90 inches and even 200 inches per year. It is remarkable how much water this soil can absorb and not be too wet to work. Same thing is true in sugar cane production.

This pineapple yarn is sure getting to be a long tale, but must tell of the planting, which takes place both spring and fall and stretches out over 3 months. It's a big job and all 25,000 acres in this one company must be done over and over each 4 years.

After the fallow period, the soil is smoothed and 36-inch-wide tar-treated paper is laid every 5 feet. Large machines press paper down and cover the edges with dirt. This strip of paper is wide enough for 2 rows of plants. Paper is marked at 12- or 14-inch intervals. Hand planting is done by thrusting a trowel-like tool thru paper and inserting a pineapple slip that may be a crown, or sucker from an old plant. That's the seed—these slips are cured by turning them upside down in tops of old plants; they are also stored upside down out in field plots for more curing. During this period many roots grow at base. These cured or started slips are scattered along for planting.

(Continued on Page 23)



PLANTING MACHINE for sugar cane plows a furrow, plants 12- to 24-inch seed slips and to end, places fertilizer around and covers seed all in one operation.

I forgot to mention the same machine that lays the paper, injects chemicals into soil to kill any harmful insects present.

We were shown another machine being tried out where paper is laid, chemicals injected and holes cut in paper. Plant slips are fed down long shoots, where 2 planters ride and hand-insert them thru holes into ground. This is about like we plant strawberries in the Kaw Valley.

I bet a lot of folks wonder why in the world would anyone want to use \$35 worth of paper per acre on any crop! Well, it pays by keeping down weeds, retains heat, moisture and fertilizer. It's a small hothouse for quick root development.

Dear Editor: (Mid-Pacific, January 12, 1952.) We are slowly plowing our way northeast across the Pacific over 2,000 miles of water. We must be having the hangover of the big storm near Alaska. This time we plowed head-on thru one swell after another.

I must jot down some things of my last visit to sugar cane fields and also on manufacturing. Our good friends Mr. and Mrs. A. J. Mangelsdorf were our guides and hosts. It was our last trip over Oahu. When you have Al along as guide, there's no one better for he has spent 25 years working with sugar production.

Al and his co-workers produce about a million cane seedlings per year. It then takes about 10 years to grow and check the few promising ones. Then, when they do find a good one it takes many years to increase that strain, since seed piece usually is a 3-joint stalk of cane. So even in 25 years, Al is just getting a real good start. His work is surely paying off for all varieties now used on the Islands came from Hawaiian Planters Association Experiment Station. Work of the association covers many fields in sugar production. Al explained how experts check any new varieties for disease resistance and insect damage.

See Test Plots

At one variety-increase plot northwest of Pearl Harbor section of Oahu, hundreds of new numbers were being checked against old stand-by strains. There are similar plots on other Islands because there's a wide difference in rainfall, soil and elevation. You just have to have a sugar cane that's tailor-made for a certain area—so when you know it takes 10 or more years to find that strain you can see how valuable the long-time services of such a fellow Kansan as Al Mangelsdorf is to this 100,000-acre industry. In the last 25 years sugar cane yields have increased 1½ tons per acre.

I am sorry we did not see harvesting of sugar cane but Karl H. Berg, manager of the Ewa Sugar Mill on Oahu, showed us big machines used by Ewa Plantations. We saw great semi-trailer trucks with tires as big around as a 50-gallon barrel. These big trucks cost \$50,000 each and I saw 9 of them in one row. During this slack period everything was being put in tip-top condition.

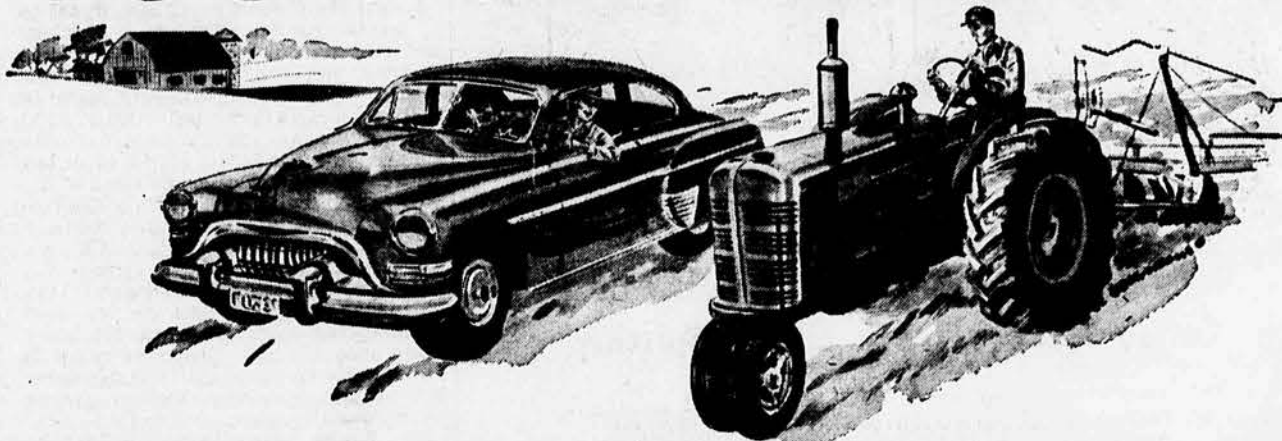
There's no time lapse in planting a field back to sugar cane. Field is torn up one day and replanted the next if weather permits. Giant rooter machines go down 2 feet or so and tear roots and soil to shreds. Giant disks work soil down. This is followed by giant listers with overhead bins filled with seed pieces.

This contour farming and the large amounts of roots and crowns reduce soil loss to minimum. There are, however, 75 or more tons of stalks removed to crushers which in many cases is not returned to the land. A lot of this material is being used as fuel in big boilers. A lot of it is dumped into ocean and has caused much damage to fishing. Some is used to build soil. All sugar stalks are washed before going to the crushers and this dirt at Ewa plantation is pumped 2½ miles to some lowland; they were building 25 acres of new land per year.

To get back to planting sugar cane—same machine that makes furrows also may deposit fertilizer according to soil needs. Sugar cane rows here are 5 feet apart. After planting, workers go over fields with big hoes and pull loose old crowns so they won't grow. Weeds are controlled by spraying and cultivating. In 18 to 22 months of constant care, they are ready to harvest another crop of 75 to 100 tons of stalks.

(Watch next issue for more about sugar cane planting and Hawaiian ex-

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Spring Dairy Shows Help Improve Quality

By DWIGHT E. HULL

TO SOME 300 or 400 Kansas dairymen the first of April is a signal to begin grooming in earnest, various animals that are going to make up the district, parish or canton spring show herds. This fine program was begun in Kansas in 1933 under influence of Fred S. Idtse, who was at that time, fieldman for the National Jersey Cattle Club, but who is now national secretary for the Brown Swiss Association. Mr. Idtse was assisted by James W. Linn, Extension Dairyman at Kansas State College. Largely thru Mr. Linn's efforts the program was expanded and carried on. Kansas dairymen can be proud of their spring show program. No other state can claim a program with so many well-organized districts regularly holding spring shows, with such a large group of dairymen participating.

No doubt, many wonder what the award might be to induce the everyday dairyman to spend considerable time getting his entries into condition, teaching them to lead and show and finally hauling them 75 or 100 miles and back for a one-day show. There is no cash award or trophy, just plain hard work. If his entry is within the first 5 or 6 places he receives a ribbon.

Reward Is in Learning

His reward is what he and his family learn by doing; also, a feeling that others who observe may learn some important points in the makeup of a good dairy animal, carry home a greater desire to own a beautiful dairy cow or how to improve the quality of what they have.

Breeders of registered dairy cattle, who year after year have participated in these spring shows, are very conscious and appreciative of the fact they have the co-operation and support of public-spirited business men thruout the state. They have provided places to hold spring shows, and many times have provided cash to cover necessary expenses and prizes for judging contests. This not only has been a substantial contributing factor in development of spring shows in Kansas, but also has meant a closer relationship between and among people of the town and those of the country.

Another contributing factor in this program has been appreciation and support of our state fairs. They encourage breeders to show at spring shows and become eligible to have one or more entries in the district herd to be taken to state fair shows. Money provided by the state fairs has made it possible for this district to assemble a group of cattle from a large number of herds. Many times a breeder or dairyman just starting to build his herd could not afford to have any representative of his herd showing at the state fairs. Thus he missed valuable lessons he now gets.

Led to Royal Show

Development of the spring show program in this state and in surrounding states led to creation 3 years ago of the American Royal Dairy Show in Kansas City. This has now attracted attention of dairy-minded people across the nation because, like the spring shows, it provides a means for a dairyman with a small herd to compete, and is not just a show for the herds that have large financial backing. Transportation money is provided and competition at the show in individual classes is just for ribbons.

Spring shows are then, truly educational. A big feature of this educational part are the judging contests which are open to anyone who cares to participate. Kansas Farmer has greatly contributed here by sponsoring the Kansas Farmer judging contests in which the winners in each district of the spring shows compete in a state-wide judging contest at the state fair.

We feel spring shows are as valuable to the dairyman who is interested in building his herd from a type standpoint, as DHIA is valuable in him from a production standpoint. What one gets out of spring shows, whether he is showing or participating in the judging contest or just a spectator depends, as it does in DHIA, to a large extent on the individual, what he puts into it.

We agree there are no 2 judges who see eye to eye in placing cattle. However, the large majority of judges do a

contribution to one's knowledge of what to look for in superior dairy cattle. I think too many times we are likely to criticize rather than make a sincere effort on our part to pick up a point here and a point there we can use to formulate in our mind a clearer picture of an ideal dairy animal.

For example, not so many years ago we had little idea what a judge was talking about when he criticized or commended the legs of an animal. We simply couldn't see what he was talking about. So on numerous occasions we would ask the judge to joint out just what he meant by crooked legs. We never expect to be a good judge, but we do believe the lessons learned have been a big help to us in selecting our animals for type.

Talking with dairymen, we have heard them ask a good many times what dif-

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ference it makes what a cow looks like, as long as she gives a pail full of milk. If they were talking about color we might go along with them, but body conformation is a different story. For instance, a cow with good, straight legs and good bone substance is far more likely to still be in the herd and be a profitable cow at 12 or 14 years old than a crooked-legged, weak-boned cow. So other points that make up good dairy conformation have a direct bearing on usefulness of the individual in one way or another.

We believe spring shows are a direct benefit to every dairyman. They help create a desire on the part of a good many to improve the quality of their cattle. In turn this makes more good-quality cattle available, and points the way to a better understanding of the value and desirability of quality dairy cattle to others. Every dairyman should consider spring show day as one of the most important in his year's activities.

Active participation in spring shows by a large per cent of dairymen could result in Kansas becoming one of the leading states in quality dairy cattle.

More Dairy Shows

Spring dairy shows not previously reported in Kansas Farmer include:

Ayrshire—April 14, North Central, Clay Center; April 15, Mid-Kansas, Moundridge; April 16, Central, Hutchinson; April 17, South Central, Harper; April 18—Southeast, location unannounced; April 19, Northeast, Paola.

Brown Swiss—April 21, Canton 4, Hutchinson; April 22, Canton 3, Medicine Lodge; April 23, Canton 2, El Dorado; April 24, Canton 1, Iola; April 25, Canton 5, Topeka.

Jersey—April 21, East Central, Gannett; April 22, Southeast, Altamont; April 23, South Central, Caney; April 24, Central, Larned; April 25, North Central, Riley; April 26, Northeast, Tonganoxie.

For Program Chairmen

"A Ticket for Amy," requires 3 characters. Scene laid in a railway ticket office.

"Here Comes the Bride," a play requiring a bride and groom, 6 children and several singers.

"The Hill Billy Wedding," a play that includes several characters and is heaps of fun.

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Write Entertainment Editor, Kansas Farmer, Topeka, and enclose 5c for each leaflet ordered.

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Marketing Viewpoint

By C. P. Wilson, Livestock; Leonard W. Schruben, Feed Grains; Paul L. Kelley, Poultry and Eggs.

What is your opinion as to what the hog market will be by late August or September? Could a man buy some shoats and feed them at a profit?—M. L. D.

Hog prices should show considerable improvement above present low levels by late August and September. Unless some unforeseen circumstance occurs, prices for tops should exceed \$20 per hundredweight.

As you know, your possibilities of feeding shoats at a profit with the present generally unfavorable hog-feed ratio depends considerably on how well you manage. I believe the good manager can show a profit on hogs fed to strike the early fall market, if he can get reasonably priced shoats. You can normally figure about 4 to 5 pounds of feed to 1 pound of gain, and feed costs usually run about 80 per cent of total costs. Feed costs may be cut by running on pasture until summer.

Will the price for white corn continue to be higher than for yellow? If so, how much higher?—H. E. M.

It is probable white corn of comparable grade will continue to bring a premium price. However, current premiums of about 10 cents per bushel at this time of year do not indicate that users of white corn are especially anxious about available supply. Until about 15 years ago, yellow corn brought a premium over white corn. Then, with improved yields of yellow hybrid, many farmers switched from growing white to growing yellow corn. Much white corn is used in the food processing industry. With the relative short supply of white corn, these processors paid a premium—sometimes as much as 75 cents per bushel. However, many processors have discovered how to use yellow corn and no longer pay more for white. Also, plant breeders have improved the yield of white corn so with only a slight premium, more farmers will grow white corn.

During the rest of 1952, white corn will probably bring a premium over comparable grades of yellow corn. This premium, however, will probably not be more than 20 to 25 cents per bushel at the highest and more likely will average near 8 to 15 cents. It does not seem likely the large premiums of several years ago will be paid this year.

What do you expect egg prices to do in the near future?—J. W. K.

Easter holidays may result in some temporary improvement in prices for eggs and poultry products. However, the larger than usual seasonal increase in egg production is expected to depress egg prices. A reduction in farm flocks will also tend to exert some downward pressure on poultry meat prices in the Midwest.

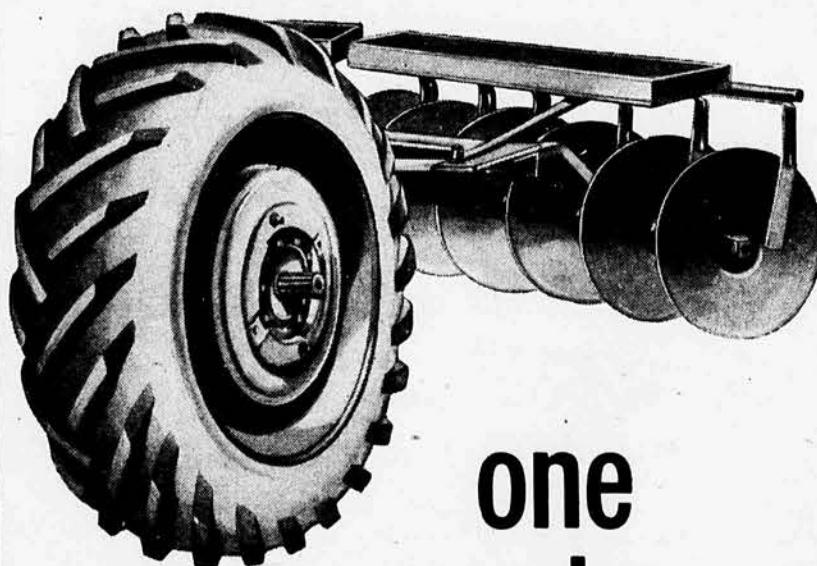
Apparently, producers are reducing flock sizes. The Nation's laying flock averaged 378 million hens on February 1 or 3 per cent more than a year ago. However, numbers of layers on March 1 were 11.4 million less than on February 1, which compares with a reduction of 8.7 million hens last year during February. This resulted in only 2 per cent more layers on farms than a year earlier on March 1 compared with 3 per cent more on February 1.

Producers undoubtedly will continue to reduce hen numbers still further since the egg-feed and chicken-feed price ratios are less favorable than a year ago. The February, 1952, egg-feed ratio was the least favorable to egg producers for that month since 1924. Many people, however, feel that the reduction in chicken numbers will result in a substantial decrease in the quantities of eggs available next fall.

Kansas Foundation Boost 4-H Work

A nonprofit charter has been issued to The Kansas 4-H Foundation, Inc., with headquarters at Manhattan. The Foundation will receive gifts to advance 4-H Club work.

J. Harold Johnson, Kansas State 4-H Club leader, was listed as resident agent when papers were filed in the office of the secretary of state, March 13. Incorporators are Fred D. Wilson, W. Dale Crister and E. B. Shawver.



one
good
turn
deserves
another...



and gets it!

The wheel turns and the tractor moves across the field—spring plowing has begun again. And, with the turn of the tractor wheel, the nation's farmers once again begin producing the abundance of food, feed and fibre so necessary to national strength and well-being!

But this abundance depends, too, on another kind of wheel—equally vital. That's the wheel of the railroad freight car! These wheels bring the farmer his equipment... fertilizer... supplies... farm machinery. And they deliver the produce of his land and labor

to markets far-distant from his farm.

Yes, it's the railroads that do the low-cost, basic transportation job upon which our nation's agricultural system—indeed our whole economy—depends. And when you consider that the railroads carry more freight more miles than all the other forms of transportation put together, it's evident that no other form of transportation could begin to do this basic job.

Working together, the farmers and the railroads provide the food America needs to stay prosperous... to stay strong.

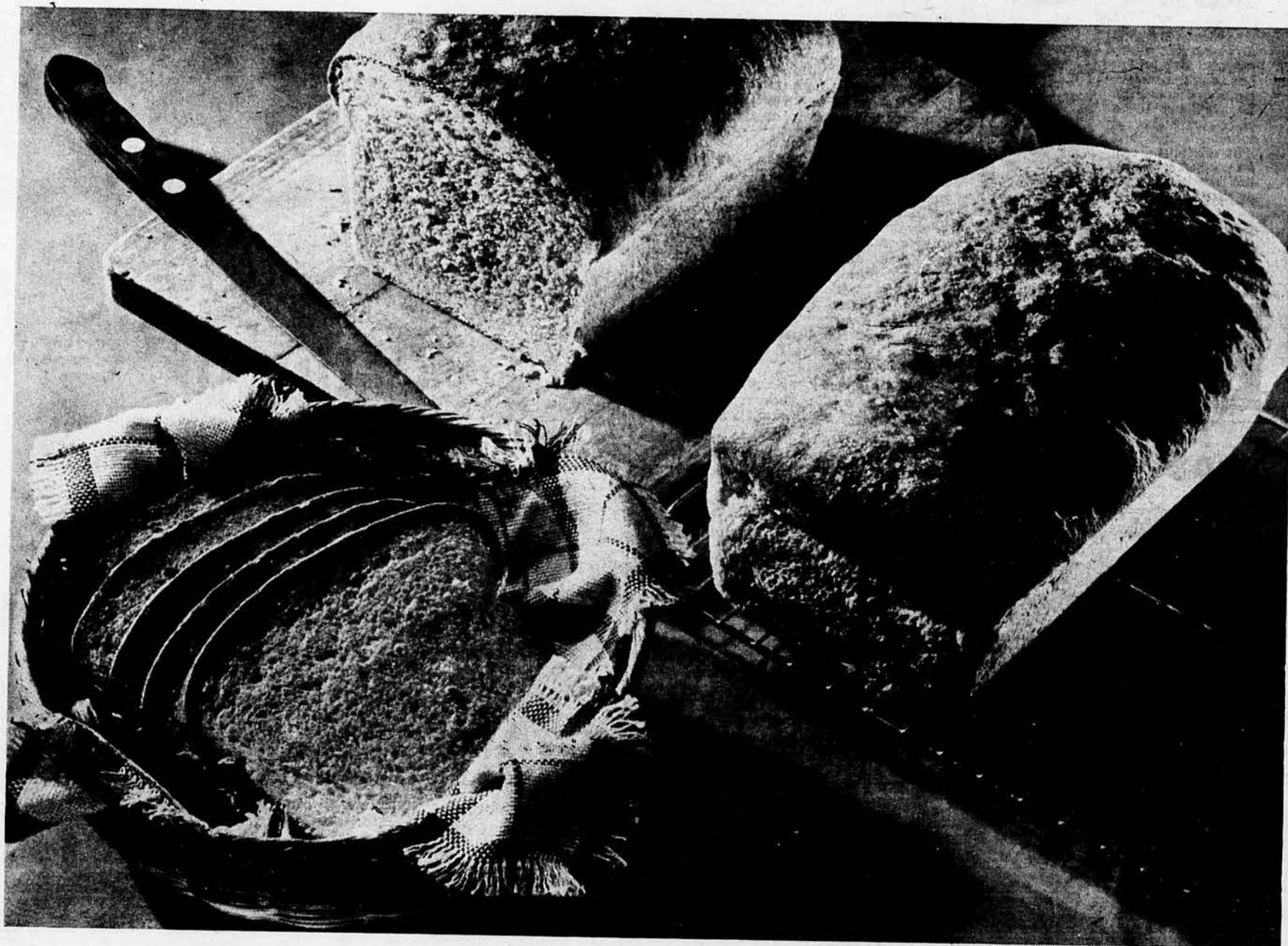
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Kansas Farm Home and Family

FLORENCE MCKINNEY, Editor



BREAD CAN BE the staff of life if enriched with more farm products, eggs, milk and dry milk solids.

Here's Bread That Is Bread

BREAD, it seems to us, might well be better than it is these days. Enrichment helped a very great deal, it's true, but bread can have still more flavor and more nutritive elements. 'Tis said most homemakers prefer the fluffy pure-white bread right off the grocery shelf, but in a good many spots in the country, demand for still better bread is growing.

Farmers and their wives will be among those most interested in the business of improved bread. For they are the ones who grow and sell milk, eggs and soy flour that go in that better-quality bread. If everybody ate such nutritious bread everyday, the farmer's market for these items would increase tremendously.

Certain experiment station and land-grant colleges have completed work on the matter of better bread and where it has appeared on the market, women prefer to buy it. It's a growing business in some areas.

Bread sales in our nation have dropped tremendously in the last generation and it's thought the reason is increased consumption of meat, vegetables and fruits. That's good, but it still does not prohibit us from making bread still more flavorful and nutritious. More and

better farm products could very well go into every loaf of bread. They're the things our farmers produce and they're the things they want to sell. The homemaker would like to use them to better feed her family.

Two of the following recipes contain dry-skim milk called "dry milk solids." Several brands of this relatively new product may be found in the average grocery. It's merely skim milk with the water removed and contains all the milk minus the fat. Various brands are packaged in different sizes, but when reconstituted with water, makes skim milk at the rate of about 8 cents a quart. That's a low-cost food item these days. Added to bread it has little effect on flavor, but it adds much to the protein and calcium content of the loaf.

It makes bread brown more readily. To regulate the browning, cover the loaves with brown paper during the last half of the baking period.

Cornell University in New York State has worked on a better bread for several years. They not only have succeeded in making a good home kitchen product, but an improved loaf for commercial bakeries. Sales of this bread have increased enormously.

Here is the home kitchen recipe as developed at Cornell. This bread is firm, not light and fluffy, but flavorful and packed with food value.

Family Bread

4 teaspoons sugar	8 teaspoons salt
1 cake compressed or 1 package dry granular yeast	4 teaspoons shortening
2 cups lukewarm water	6 tablespoons soy flour
5 cups flour, enriched	7 tablespoons dry milk solids

Dissolve the sugar and yeast in the water at a temperature of about 85°. Mix all other ingredients except the fat in a bowl. Add the yeast solution. Mix. Add the shortening and mix. Put a thin layer of flour on breadboard. Turn out your mix and knead diligently for 10 minutes. Place dough in greased bowl and turn over so it is lightly greased on top. Cover and keep in warm place (80 to 85°) until it has nearly doubled in bulk.

Punch dough down, fold over the edges and turn the mass upside down in the bowl. Cover and allow to rise

[Continued on Page 27]

again for 15 minutes. Place on floured breadboard and shape mixture into 2 balls. Leave these on board for about 10 minutes. Shape each ball into a loaf and place in greased pans (4½ by 8½ by 2¾ inches). Cover and keep in warm place until the dough fills the pans. This takes about an hour. Heat oven to 350° and put the bread in. After 15 minutes, reduce the oven heat to 325°. When the first brown shows on the loaves, lay a piece of brown wrapping paper over them to keep a light brown color. Bake for a total of 55 to 60 minutes.

Nutritious Bread

Man by choice has turned to white flour in preference to the darker flour. Good bread can be made from white flour if enough highly nutritious food items are added to it. For instance at the University of Missouri Experiment station, another good bread has been developed, this one with more than the ordinary amount of fresh whole milk and fresh whole eggs.

- 8 cups flour, enriched
- 1 cup milk if dry granular yeast is used, plus ½ cup water or
- 1½ cups whole milk, if compressed yeast is used
- 4 tablespoons sugar
- 2 teaspoons salt
- 6 tablespoons butter
- 2 cakes compressed or 2 packages dry granular yeast
- 6 fresh eggs

Sift flour before measuring. Scald milk, add sugar, salt and butter. Allow to cool to lukewarm (80° to 85°). If compressed yeast is used, add yeast and the beaten eggs. If dry granular yeast is used, dissolve in the ½ cup warm water, then combine with milk, sugar, salt, butter, then beaten eggs. Add one half the flour and beat 3 minutes. Add remainder of flour, about ½ cup at a time and stir after each addition.

Remove dough from bowl to pastry cloth or board and knead until smooth, elastic and satiny. Grease bowl, place dough in it and turn over, so grease covers it. Set in warm place (80° to 85°). When doubled in bulk, in about 2 hours, punch down, folding edges toward center. Turn smooth side up

and let rise again until doubled in bulk. Place dough on board and divide into two and shape into loaves. Place dough in 2 pans (4½ by 8½ by 2¾ inches) with seams underneath. Cover and let rise in warm place for 45 to 50 minutes. Bake in preheated oven at 375° (moderate) for 40 to 45 minutes. Remove from pans immediately and cool.

Top Value Bread

Michigan State College and Experiment Station developed a bread which contains a large measure of dry milk solids.

- 4 to 5 cups flour, enriched
- 1½ cups dry milk solids
- 2 cups water (lukewarm for compressed yeast, warm for dry yeast)
- 1 to 2 cakes compressed or 2 packages dry granular yeast
- 4 tablespoons sugar
- 2 teaspoons salt
- 4 tablespoons shortening
- 1 egg

Sift 2 cups flour with dry milk solids. Soften yeast with a small amount of water, lukewarm for compressed yeast, warm for dry granular yeast. Heat remaining water until hot and pour over sugar, salt and shortening. Allow to cool. When lukewarm, add softened yeast and flour mixture. Add egg. Add enough more flour to give a dough that can be handled. Allow to rest 5 to 10 minutes. Knead until elastic and smooth (about 5 minutes). Place in greased bowl and turn until greased on all sides. Cover and keep warm (about 80° to 85°) until doubled in bulk. Shape into 2 loaves and place in lightly greased pans, 4½ by 8½ by 2¾ inches. Let rise and bake in preheated oven at 375° (moderate oven) for 1½ hours. Cover with brown paper during last half of baking period.

A Child's Questions

I always try to answer
The questions that you ask,
But right now I'm confessing
It's a super-sort of task!
A child so full of "whats" and "whys"
Must surely someday grow quite wise!
—By Mary Holman Grimes...

Future Homemakers Meet



OFFICERS AND ADVISERS of the Future Homemakers of America as they listen to an address by Gov. Edward F. Arn. Front row left to right: Mrs. Blossom Schmidt, chairman women's division of Topeka Chamber of Commerce; C. M. Miller, director of State Board of Vocational Education; Allan Young, publicity director, WIBW; Governor Arn; Wes Seyler, farm service director, WIBW; Ruth Chaffee, Hutchinson; Jane Crosby, Hutchinson; Jean Shannon, Ottawa. Back row, Mary Lou Warren, Frankfort, song leader; LaRue Fuller, Little River, historian; Carol Antic, Kansas City, secretary; Doris Jean Beck, Baxter Springs, vice-president; Mary Ann Curtis, Ulysses, vice-president; Nadine Schmidt, Colby, president; Hazel Buck, Pittsburg, vocational education staff; Joyce Francis, Anthony, vice-president; Jeanice Blauer, Stockton, treasurer.

MORE than 2,000 high school girls enrolled in Vocational Homemaking in Kansas high schools gathered in Topeka last month for their annual meeting. Greetings were extended by Gov. Edward F. Arn and C. M. Miller, of the State Board for Vocational Education.

State homemaker degrees were awarded to 76 girls. Successful candidates have had 2 years of homemaking instruction, held responsible positions in school and chapter activities and participated in community activities contributing to better home life. Palco and Frankfort chapters tied for top place in the highest numbers of suc-

teaches at Palco; Mrs. Welma Frank at Frankfort.

The girls were entertained at the Governor's mansion. Mrs. Blossom Schmidt of the women's division of the Chamber of Commerce, Mrs. Arn and Dolores and Barbara Arn received guests.

New state officers elected were Marilyn Alexander, Garden City, president; Sharon Hansberry, Topeka, first vice-president; Shirley Smith, Kincaid, second vice-president; Lois Jean Riat, Wamego, third vice-president; Marilyn Hobbie, Osborne, secretary; Shirley Schmidt, McPherson, treasurer; Mary Jo Wofford, Colby, song leader; Lee



LLOYD BURLINGHAM'S

SKELGAS

FARM REPORTER

I'll take April...

This fourth month is my choice. It carries the green traffic light for Old Mother Nature. Poets write of April's "lovely fickleness" and "uncertain glory" but its thirty days overflow with work and plans and hopes. April sets the pace for the year's production of food.

There are more young things on farms than at any other time in the year; calves, lambs and pigs, and baby chicks. The small grain's in, with the legume seeding. The tractors stand as if impatient to be active in the service of King Corn; in the deep southwest wheat begins to look like a harvest.

In April the lethargy of winter is a memory, the days lengthen, the past's forgot and every sunrise is full of promise. Mothers step up their urgings about some help with the garden; boys and girls, after chores and supper, have to be urged in out of the yard. Everybody's busy; everybody's happy. Life on a farm pays off. We're in the glory of the very grandest part of the year. I'll take April...



HINTS for House and Garden

To make your windows really shine, put one-half cup of vinegar in a quart of water when you wash windows this spring.

Cream pitcher drip? Save your tablecloth... stop dripping by rubbing a little butter or margarine under the spout.

Button, button—! A small glass jar kept near your laundry tub makes an excellent container for buttons that come off in the washing. Saves hunting for buttons at mending time.

Skelgas Families' FAVORITE RECIPES

Berry season is with us again and we will want to use as many of these luscious fruits as possible while they are at the peak in flavor. We have chosen this STRAWBERRY MUFFIN recipe as the winner because strawberries seem to be the universally best-liked berry. Mrs. Hershline's recipe calls for fresh strawberries but undoubtedly other berries would work just as well and, if you have a yen for Strawberry Muffins out of season, frozen strawberries could be used.

STRAWBERRY MUFFINS

- ¼ cup shortening
- 2 eggs
- 4 teaspoons baking powder
- ½ cup milk
- ½ cup sugar
- 2 cups flour
- 1 teaspoon salt
- 1½ cups strawberries

Wash and hull the berries and cut in half. Cream shortening and sugar. Beat eggs and add to mixture. Mix and sift flour, baking powder and salt; add alternately with milk to first mixture. Stir berries gently into mixture. Fill greased muffin tins half to two-thirds full. Bake in 400°F. oven for 25 minutes. Makes 12 muffins.

Mrs. Jo Hershline
668 Washington Street
Gary, Indiana

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Are your hogs making "Hogs" of themselves?



Could be. According to tests made at Iowa State College, it seems that protein feed requirements for hogs should be revised downward.

They say that levels of 14 percent protein in the ration should be adequate for the weaning stage up to 75 to 150 lbs. Hogs weighing from 75 to 150 lbs. are said to require only 12 percent protein, while 150 lbs. and higher weights call for only 10 percent protein to market time.



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\$1,000 ORANGE GLORY ROLLS

BAKE AT 375° F. FOR 15 TO 20 MINUTES. MAKES 3 DOZEN ROLLS.*

COMBINE $\frac{1}{2}$ cup butter, 2 cups sugar, 1 cup orange juice and pulp, $\frac{1}{4}$ cup grated orange rind in saucepan. Boil for 6 minutes, stirring constantly. (If desired, $2\frac{1}{2}$ cups orange marmalade heated with $\frac{1}{2}$ cup butter may be substituted.) Divide mixture into well-greased muffin cups, allowing 1 tablespoon per cup. DISSOLVE 2 packages RED STAR Special Active Dry Yeast (or 2 cakes Red Star Compressed Yeast**) in $\frac{1}{2}$ cup warm water (110° to 115° F.) and 1 tablespoon sugar. COMBINE $\frac{1}{2}$ cup sugar, $\frac{1}{4}$ cup shortening, 2 teaspoons salt, 1 cup boiling water; mix well. Cool to lukewarm by adding $\frac{1}{4}$ cup cold water. BLEND IN 2 eggs, slightly beaten, and the dissolved yeast mixture. ADD $7\frac{1}{2}$ cups sifted Pillsbury's Best Enriched Flour, half at a time, beating

well after each addition.* ROLL OUT dough, one-third at a time, on floured board to 12x10-inch rectangles. Brush with melted butter. Roll as for jelly roll, starting with 12-inch edge. "Tie-off" with strong thread into 1-inch slices. Place in prepared muffin pans. LET RISE in warm place (85° to 90° F.) until double in bulk, 45 to 60 minutes. BAKE in moderate oven (375° F.) 15 to 20 minutes. Let stand a few seconds, then invert on serving plate, allowing sauce to drain onto rolls.

*If desired, dough and orange sauce may be refrigerated up to two days.

**If you use Pillsbury's Best Enriched Self-Rising Flour, omit salt.

***If compressed yeast is used dissolve in $\frac{1}{2}$ cup lukewarm water.



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She Wins Third Prize

By FLORENCE McKINNEY

DOLORES TOY and McDowell Creek school in Riley county are third-prize winners in the Kansas Farmer library book contest just ended. Dolores has received a check for \$10 and her school received library books totaling \$50 in value. She won the prizes for herself and her school by writing a winning story entitled, "We Need More Books for Our School Library. Because..." The contest was open to all rural school seventh and eighth graders who live on farms.

Dolores writes us she is planning to use her prize money for a fountain pen to use in high school. She is an eighth grader and 13 years old. McDowell Creek school is small with 5 pupils, but tho small, they are proud of it and happy there.

Her father and grandfather received their grade-school education at the same school and her grandfather, John Toy, Sr., has served on the school board 47 years.

She lives on a farm with her parents, Mr. and Mrs. William Toy. Hereford cattle are the main farm enterprise with 60 acres of general crops in addition.

Piano lessons and 4-H Club work are her special interests. Last year she was reporter for her club and this year she is secretary-treasurer. Here is Dolores' story:

"We Need More Books for Our School Library. Because..."

I am in the eighth grade and 13 years old. I live on a 320-acre farm and go to a rural school. McDowell Creek, near Manhattan. It is in a beautiful valley in Riley county, built of native limestone, fireproof and 10 years old.

We need more books for our school library because we don't have many and we have read those we do have. We only get \$5 worth each year and that means only 3 or 4 new books. Some of us have a card at the city library but since it costs rural people, not all the pupils have one.

More library books for us to read will help us increase our vocabulary so we can take our places more successfully in the world. In life we will be meeting people continually. It will be important for us to express ourselves well. Reading is one of the best ways to learn to do this.

Library books will add to our public school education. Before the 15th century, progress was slow. People knew little about other parts of the world or what others were doing. The invention of the printing press made a great dif-



DOLORES TOY of Riley county is third-prize winner in the Kansas Farmer story-writing contest and won a cash award for herself and \$50 in books for school library.

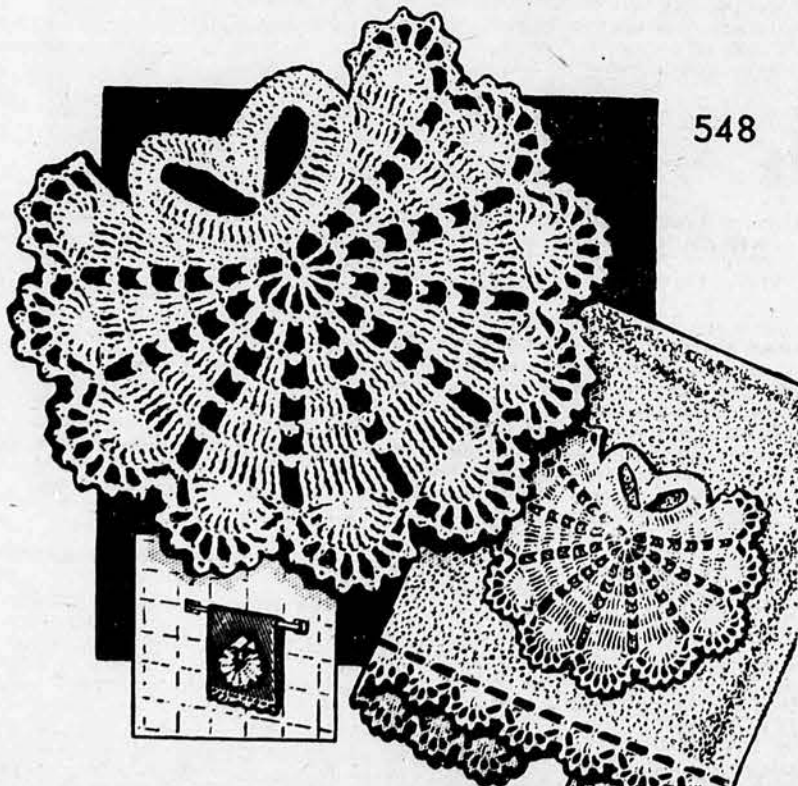
ference. People began to learn about other people, other lands and better ways of living and doing things. Books were the only education they knew. Today, they can be an added education.

Library books can help us become better and more useful American citizens. Many of America's greatest men such as Abraham Lincoln have obtained the greatest part of their knowledge from books. Books possess valuable information. If our school had more books, our boys and girls would read more and thus become better men and women.—By Dolores Toy.

Honor Thy Mother

Mother's Day is coming, and for a new way to honor your mother, entertain with a party! Kansas Farmer has 2 leaflets giving ideas on contests, favors, food, programs and poems for party or banquet. Write Entertainment Editor, Kansas Farmer, Topeka, for a copy of "Honor Thy Mother" or "Mother-Daughter Banquet and Program." Price, 5c each.

Wonderful Idea!



548

A GAY little shell pocket in easy crochet holds a washcloth. Design can be heavy cotton for decorating terry cloth towels, lighter for linen hand towels. Pattern B548 has pocket directions for holder plus matching edging for towel ends.

Notes from the BEET SUGAR KITCHEN

by Nancy Haven



EASTER BRUNCH MENU

BROILED MIXED FRUIT
with SUGAR 'N' SPICE.
Ham Slices

* FROSTED EGGS!
* COFFEE CAKE
MUFFINS



* COFFEE CAKE MUFFINS

2 cups sifted all-purpose flour
1/2 cup Beet Sugar
3 teaspoons baking powder
1/4 teaspoon salt
3/4 cup coarsely chopped walnuts
1/2 cup seedless raisins
1/2 cup shortening
1 egg
3/4 cup milk

Sift dry ingredients into bowl. Stir in all at once remaining ingredients; mix only enough to dampen flour. Spread half the batter into 12 generously greased, medium-sized muffin pans. Sprinkle each with 1 tsp. "Sugar 'n Spice" (made by mixing 1/4 cup Beet Sugar and 2 tps. cinnamon). Divide remaining batter evenly in pans, smoothing out.



Daisy Decoration. Over top of muffins, shake "yellow" sugar (1/4 cup Beet Sugar mixed with 6 drops yellow food coloring). Press in 5

blanched almonds, petal-fashion, around a pineapple chunk. Bake in mod. oven (375° F.) about 25 minutes or until toothpick, thrust in center, comes out clean. Invert muffin pans, gently, on cooling racks; let stand 2 to 3 minutes. Turn pattern-side up. Serve hot. Makes 12.

* FROSTED SCRAMBLED EGGS

Scramble eggs, saving out 2 egg whites for each 6 servings. Make meringue by beating whites until stiff; season with salt, pepper and Worcestershire Sauce. Place scrambled eggs in individual or large serving casserole. Top with meringue and brown in hot oven.



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Buy a package of Walko Tablets today at your druggist or poultry supply dealer. Use them in the drinking water to aid in preventing the spread of disease through contaminated water. Satisfy yourself as have thousands of others who depend upon Walko Tablets year after year in raising their baby chicks. You buy Walko Tablets at our risk. We guarantee to refund your money promptly if you are not entirely satisfied with results. The Waterloo Savings Bank, the oldest and strongest bank in Waterloo, Iowa, stands back of our guarantee. Sent direct postpaid if your dealer cannot supply you. Price 60¢, \$1.20, \$2.50 and \$4.00.

Home Demonstration Women to Meet in May

Once again Kansas home demonstration members join in district celebrations during National Home Demonstration Week, May 4 to 11. "Sixteen district meetings will be held over the state with invitations extended to all the 41,000 members and their friends," says Georgiana Smurthwaite, State home demonstration leader at Kansas State College.

These spring meetings have proved unusually popular in Kansas the last few years. All-day meetings with speakers and discussions are interspersed with musical talent, teas, luncheons and recreation.

In the southwest district, Ella Meyer, district agent, has announced the following schedule: May 5, Ness City; May 6, Dodge City; May 7, Liberal; May 8, Medicine Lodge; May 8, Hutchinson.

Margaret Burtis announced the following dates for meetings in the eastern district: May 5, Sabetha; May 6, Lansing; May 7, Oswatimie; May 8, Fort Scott; May 9, Emporia.

For northwest Kansas, Mrs. Velma Huston, district agent, has arranged meetings as follows: May 5, Clay Center; May 6, Beloit and Tribune; May 7, Minneapolis; May 8, Norton; May 9, Goodland.

Chorus Added

Dear Editor: As I began reading *Mail and Breeze* when I was 10 years old, I am probably one of your oldest readers. To see "Kansas Land" in print (January 19 *Kansas Farmer*) took me back to the old days when my father used to sing it. I thought it probably was his own composition.

He added a last chorus:

*Oh, Kansas girls! Sweet Kansas girls!
With sky-blue eyes and pretty curls!
They dance and sing while the organ
plays*

*'Till some Yankee dude, he comes their
way.*

*They meet him at the parlor door
And "give him the mit" forevermore.*

—Mrs. Roy Wilson, R. 3, Junction City.

Soak . . . Don't Stir It Prevents Shrinkage

Laundrying a wool blanket and at the same time preventing shrinkage is quite an accomplishment and if the truth were known . . . not often done. The Ohio Experiment Station has completed a research project on this matter and comes up with the answers. They found that a new non-stir method of laundrying wool blankets is the answer. Agitation and stirring always caused shrinkage. Wet wool is delicate and special treatment has long been recommended.

Use Lukewarm Water

Fill the washer or tub with lukewarm water, add a low-sudsing detergent and dissolve before putting in the blanket. Then submerge the blanket, let it soak for 15 to 20 minutes, turning it over carefully once or twice by hand. Then drain off the water and press more water out by hand, but do not twist, squeeze or wring. Then run in rinse water of the same temperature, soak 5 minutes, drain off the water, add a second rinse water, turn the blanket carefully as the second rinse water comes in.

After the second rinse water has drained off and the blanket pressed against the sides of the tub, 2 people should stretch the blanket to its original size. Let the blanket dry gradually until just slightly damp, then stretch again and dry. Then brush both sides with a stiff nylon brush to lift the nap to original softness. Press bindings when dry.

Etiquette Leaflet

"How to Make Introductions," is the title of leaflet many folks, young and older, will appreciate. Leaflet gives all rules on how to introduce people to one another in all situations, and also how to make friendly responses. Young people's organizations should be interested in seeing this leaflet. Write to Home Service Editor, *Kansas Farmer*, Topeka. Price 3¢ a copy.

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3 times faster
with

LP-GAS!

No single convenience does so many things for all the family as automatic hot water. *Everybody* wants hot water—often all at once!

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LP-GAS heats water *three times faster* than electricity . . . so, with gas, a smaller, less expensive water heater does the job. You have all the hot water you want 24 hours a day.

Use LP-GAS to operate a new (automatic gas range . . . a beautiful gas refrigerator . . . a gas clothes dryer . . . a gas incinerator . . . and to heat your home. And, (remember, with gas there are no costly installation charges.

Ask for the fuel you know as bottled gas, tank gas, butane, propane, or by a local trade name. They're all Liquefied Petroleum Gas, that brings better living anywhere. You can store this fuel and always have plenty on hand. For approved appliances and best service, see your LP-GAS dealer.



BROTHER

Hot water makes him sing and hum! Plenty more where that came from!



SISTER

Hot water answered all her wishes Look—she even does the dishes!



MOM

No more washday boiler trips Hot water's at her finger tips!



Better Farming, too!

LP-GAS for tractors gives smooth, even power . . . burns clean . . . reduces maintenance costs. Your present tractor can be converted, or you can buy a factory-built model.

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Hot Water
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Philgas*

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Too, you'll find Philgas is ideal for cooking, refrigeration, brooders, tractor fuel, stock tank heaters and other farm needs. It's the largest selling brand of LP-Gas in the country.

See your Philgas Dealer and ask for the free booklet on the advantages of heating water with Philgas.

*Philgas is the Phillips Petroleum Company brand name for its high quality LP-Gas or bottled gas (propane, butane).



Designed for All



4637
 SIZES
 34-46



9249
 SIZES 10-16



9370
 SIZES 14-20 32-42

4637—Slims your figure with paneled skirt, trims with embroidered flowers. Comes in sizes 34 to 46. Size 36 takes 3½ yards 39-inch fabric. Transfer included.

9249—A teen-ager for dates and duty with yokes, pockets, pleated skirt. Easy sewing. Sizes 10 to 16. Size 12 takes 2½ yards 35-inch material; ¾ yard contrast.

9370—Almost sleeveless, with flattering handsome collar, panel pockets and step-in closing. Sizes 14 to 20 and 32 to 42. Size 16 uses 4 yards 39-inch material.

4547—Every line designed to slenderize and glamorize. Comes in sizes 34 to 48. Size 36 dress takes 4½ yards 35-inch material; bolero 1½ yards.

9065—Wonderful skirt buttons to sunsuit, whisks off for active games. Sunsuit opens flat to iron. Comes in sizes 2, 4, 6, 8. Size 6 playsuit and skirt take 2½ yards 35-inch material.

9322—Little sleeveless dress for you! Perfection fit due to that back closing. Collared neckline means real flattery. Easy for teen-ager to sew. Sizes 12 to 20. Size 16 takes 4½ yards 35-inch material.



4547
 SIZES
 34-48



9065
 SIZES
 2-8



9322
 SIZES
 12-20

Pattern Numbers	Size	Name
		Route
		Town
		State



SO EASY SUCH FUN

To Achieve the Perfect Color Scheme

1. See the Shadotone Color Cabinet at your nearest Cook Paint Store or Dealer's.
2. Fill in the Color Plan Folder—floors, walls, ceilings—with the color swatches you prefer—144 to choose from.
3. Close the Color Plan—and see the finished effect through a window in the folder.
4. Paint the quick, easy way with Shadotone Flat or Satin Enamel described on swatches!



FOR THE PERFECT
COLOR SCHEME THE
PERFECT PAINTS

COOK'S
Shadotone

COOK'S Shadotone FLAT ENAMEL — provides a dead-flat, glare-free finish... the richest and loveliest finish you have ever seen for beautiful, modern walls. You can use it on woodwork and metal trim as well—Cook's Shadotone Enamel is not only washable but scrubbable! Will cover most surfaces with a single coat.

COOK'S Shadotone SATIN ENAMEL — recommended wherever a more soil-resistant finish is desired—in kitchen, bathroom, or where children play. Or, for the woodwork and trim where Shadotone Flat Enamel is used on walls and ceilings—the colors match perfectly. Shadotone Satin, too, is scrubbable.



Take All the Guess out OF HOME DECORATING When You Color Plan from **COOK'S** *Shadotone* COLOR CABINET

144 COLORS TO CHOOSE FROM

*NOW, You Can See the Effect
Before You Start to Paint*

No more guessing how the paint you select will look on the walls and ceilings of your rooms... or how it will harmonize with your rugs, drapes, furnishings. Cook's Color Plan Folders let you actually "see" the entire effect! You select from 144 exquisite Decorator Colors and Tints the *exactly right* color scheme for your home! It's so simple—such fun! To color plan your home, you select the colors you like—for floor, for walls, for ceiling—put the true-color swatches from the cabinet into the Color Plan Folder and—presto! Your room comes to life—just as you've planned it!

IT'S EASY TO DECORATE with *Shadotone*

Here are the Answers to all your Questions

You can decorate a room *yourself*! Your Cook Paint Dealer will give you FREE these simple, easy-to-follow directions for achieving a perfect effect!

Shadotone

takes the "PAIN" out of PAINTING

Shadotone Enamels are easy to apply on both walls and trim. They cut wall painting time in half. Roll them on with a "Cook's Koter". It's the new, easy way to wall beauty.



BUY SHADOTONE FROM THESE COOK DEALERS:



Abilene Kansas Lumber Co.	Caldwell Long-Bell Lumber Co.	Garden City Long-Bell Lumber Co.	Leavenworth Cook Paint & Varnish Co.	Offerle Offerle Co-op Grain & Supply Co.	Solomon Leidigh & Havens Lumber Co.
Alma Anderson Brothers Hardware Co.	Canton McCall Hardware Co.	Gardner Bruce Furniture	Lebanon Lowery & Uht	Olathe Shriver Hardware & Appliance Store	Stafford Carey Hardware
Altamont Holmes Hardware	Centralia Burgner-Bowman-Matthews Lumber Co.	Garnett Stanley Hardware Co.	Liberal Long-Bell Lumber Co.	Osage City Osage Hardware	Strong City Strong City Lumber Co.
Arma Inter-Urban Lumber Co.	Chanute Long-Bell Lumber Co.	Glascow Golden Belt Lumber Co.	Lincoln Burgner-Bowman-Matthews Lumber Co.	Osawatomie Leidigh & Havens Lumber Co.	Sylvan Grove Leidigh-Havens Lumber Co.
Atwood Arwood Lumber Co.	Cherokee Long-Bell Lumber Co.	Hays Humbert Co., Inc.	Lindsborg Train Brothers	Ottawa Fred Kaiser Rexall Drug Store	Syracuse Syracuse Lumber Co.
Baldwin Baldwin Lumber Co.	Chetopa Baxter Lumber & Mercantile Co.	Herington Clark Lumber Co.	Longton Baxter Lumber Co.	Overbrook Schwanke Hardware	Thayer Thayer Lumber & Supply Co.
Baxter Springs Long-Bell Lumber Co.	Cimarron Wilson-Erdman Lumber Co.	Holton Spalding's Pharmacy	Louisburg Louisburg Lumber Co.	Oxford Long-Bell Lumber Co.	Tonganoxie Hunter Lumber Co.
Belleville Belleville Lumber Co.	Clay Center Kansas Lumber Co.	Holton Holton Lumber Co.	Lyndon Skog Hardware	Parsons Long-Bell Lumber Co.	Topeka Blaylock Pharmacy
Beloit Beloit Lumber Co.	Coffeyville Isham Hardware Co.	Howard Fulk Floor Service	Mankato Mankato Lumber Co.	Peabody Burgner-Bowman-Matthews Lumber Co.	2306 W. 10th Street
Blue Rapids Burgner-Bowman-Matthews Lumber Co.	Columbia Long-Bell Lumber Co.	Humboldt Gibbons Lumber Co.	Manhattan Cook Paint & Varnish Co.	Phillipsburg Home Lumber Co.	Long-Bell Lumber Co.
Bonner Springs Watson Brothers Drug Store	Concordia A. A. Wilson & Co.	Hutchinson Clark Lumber Co.	Maple Hill G. L. Raine Lumber & Hardware Co.	Pittsburg Cook Paint & Varnish Co.	721 North Kansas Ave.
Bubler Esau Hardware & Implement Co.	Cottonwood Falls Burgner-Bowman-Matthews Lumber Co.	Independence Long-Bell Lumber Co.	Marysville Simpson Drug Store	Plainville Plainville Lumber Co.	Long-Bell Lumber Co.
Burden Alexander Lumber Co.	Delphos Leidigh & Havens Lumber Co.	Iola Clark Lumber Co.	McPherson Cook Paint & Varnish Co.	Pomona Farmers Union Co-op Assn.	340 E. 15th Street
Burdett Norris & Son	Dighton Dighton Lumber Co.	Kansas City W. W. Mack Lumber Co.	Meade John Wood Lumber Co.	Randolph Burgner-Bowman-Matthews Lumber Co.	Cook Paint & Varnish Co.
Burlingame Burlingame Cash Hardware	Dodge City T. M. Deal Lumber Co.	2500 Metropolitan	Minneapolis Leidigh-Havens Lumber Co., Box 111	Sabetha Moore Brothers Hardware	826 Kansas Ave.
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	Emporia Cook Paint & Varnish Co.	Cook Paint & Varnish Co.	Mound Valley W. L. Hulett Lumber Co.	St. Benedict John Blocker	
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		Latam Ellis Lumber Co.	Oakley		



Finds speedy Dry Yeast a grand help

BUSY MOTHER IS PRIZE COOK AT KANSAS STATE FAIR

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

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

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

Guaranteed fresher and faster rising—or double your money back! That's Fleischmann's Active Dry Yeast. It's always lively and fast acting, so easy to use! Just add it to warm water and stir well—it's dissolved and ready in no time. When you bake at home, use Fleischmann's Active Dry Yeast. And buy a supply—it stays fresh for months.

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Calcium is a necessity; Pilot Brand Oyster Shell is the reliable, inexpensive source of calcium carbonate. It is very profitable to have a supply on hand all the time.



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DEPT. KF-1.



C. H. Hyer and Sons, Inc.
OLATHE, KANSAS

Makers of Fine Boots Since 1875

♦ The Poet's Corner ♦

OUR Kansas Day story and old pioneer song brought forth the following from an old-time reader, Mrs. Dora Means, of Sedgwick county. She writes that when she was a little girl she moved with her family to a farm just south of Valley Center. It was there she saw the first covered wagon drawn by oxen. She recalls visiting an aunt who lived in a sod house in Stafford county. She lived on a farm and with little equipment did the work that fell to the lot of all farm women in those early days. Her early impressions prompted the thought in her poem.

Pioneers of Kansas

You have heard of the hopefuls in our sunflower state,
Homesteading in Kansas, just trusting in fate,
He brought his young bride, they thought 'twould be great,
To make them a home in this new western state,
Among the first settlers of Kansas.

When others grew tired of hard work and strife,
They cheerfully looked on the bright side of life,
Cheer up, he would say, we've no time to fret
If we stand by Kansas, we'll win out yet,
Said these young pioneers of Kansas.

They built a sod house on the prairie so bare,
And started a life full of hard work and care,
Tho the task was hard, they neither one shirked,
But shoulder to shoulder together they worked,
These brave young people of Kansas.

Now, where the sod house stood is a fine modern home,
And in pastures near by their thoroughbreds roam,
Their lovely house is the pride of their eye,
As well as the neighbors who pass it by,
And everybody in Kansas.

I asked hopeful once, just to see what he'd say,
To whom he owed his success today?
"To my wife," said he, "I'll take off my hat,
For she truly has been my greatest asset,
My pioneer bride of Kansas.

She filled my life with courage and hope,
When days were dark, and my pocketbook broke,
She never complained of the hardships or toil,
But worked bravely to keep the home pot at a boil,
While making a home in Kansas.

Now reading this story you surely have guessed,
Just why hopeful has made a success,
And why he has looked on the bright side of life,
With such a companion as this for a wife,
The pioneer bride of Kansas.

—By Mrs. Dora Means

What . . . Again?

The sap is rising in the trees
New lambs are gamboling in the breeze
Now Junior's shed his underwear
No more is Poets' Corner, bare
For spring, ah spring is in the air!

—By Harriette Hill.

Just Around the Corner

Spring is just around the corner
Ornamenting plum and pear,
Where the slender new-grown grasses
Carry on with gallant air;

Where the crowfoot and wild lettuce
Join the daring dandelion
To select a place for resting
Anywhere their stems can twine.

All the earth is glad and vibrant,
Mother nature plays her role
When she puts her house in order
To uplift the heart and soul.

—By Rose Demmitt.

But We Love 'Em

Most little boys
Are darling, dirty, demanding,
Demolishing toys,
Proud as punch of their pockets
And make lots of noise.

—By Ida M. Yoder.

Why Mother Gets Washed-up

It's wash-lines and waist-lines
Keep mother in Dutch,
For waist-lines get empty,
Wash-lines filled too much.

—By Mary Alice Hall

Such Skill as These

My sister takes a spool of thread
And, with a crochet hook,
A lot of skill, a picture and
Directions from a book,
She makes a lace as silky fine
As any spider weaves
Along the woodland trails when dawn
Sun silvers dew-wet leaves.

My neighbor takes an old tow-sack,
Her daughter's outgrown dress,
And many brightly colored scraps
Of cast-off loveliness,
And soon creates with fingers deft
And much imagining,
A rug quite fit to decorate
The palace of a king.

My hands have no such skill as these,
To do the things they do,
And so I take a spool of dreams,
A memory or two,
And weave a shimmering, frail net
That, day thru and night long
I use to capture bright-hued words
To fashion into song.

—By Addie M. Hedrick.

Friendly Party Plans

Would you like to have a house-warming party for a neighbor or friend? Our leaflet, "A House-warming Party," includes games and entertainment suggestions, as well as refreshments. We can send you a copy upon receipt of request and 3c postage to Entertainment Editor, Kansas Farmer, Topeka.

Anthrax Disease in Kansas

ANTHRAX disease, a contagious animal disease which has broken out in several states, has appeared in Cowley county. According to A. G. Pickett, state livestock sanitary commissioner, 2 cows have died and an estimated 6,000 cattle in one township have been quarantined. The area is in the Flint Hills pasture region of Northwest Cowley county.

Beginning March 24 the quarantine covered cattle, hogs, sheep, horses and dogs for 60 days. No stock may run at large or be driven on public highways. Stock may enter the township but may not be taken out. All animals dying of the disease must be burned, and any animal found dead must be examined by authorities before bodies are disposed. Cattle in quarantined area have been vaccinated, as well as thousands of other cattle in surrounding areas of the township.

Anthrax outbreaks have occurred in Oklahoma, Indiana, Texas and Ohio. The Kansas outbreak was a local one, and all efforts were taken to keep it from spreading. Except for a single case in Western Kansas 5 or 6 years ago, this has been the only outbreak for several years.

Any livestock owner suspicious of the disease on his farm should contact local veterinarians. Symptoms are high temperatures, convulsions, tremors, difficult breathing, depression and collapse a few hours before death. Bloody foam often flows from body openings.

Army Cutworm Damage Fields

Army cutworms are more numerous in Eastern Kansas this year, and have been reported in fields around Hays, says Roger C. Smith, state entomologist and head of Kansas State College entomology department.

Reports from Southern Kansas indicate cutworms will damage wheat and alfalfa in that area again this year.

Standard grasshopper bait or one of 3 sprays will control cutworms. Formula for bait is 100 pounds of bran or sawdust mixed with 6 pounds of sodium flousilicate or 4 pounds of Paris green or white arsenic, or one pound of actual toxaphene with 10 to 12 gallons of water added. Mixture should be spread 20 pounds an acre on warm afternoons or evenings, as army cutworms eat at night.

Effective sprays are toxaphene, applied about 2 pounds of actual insecticide an acre; chlordane, applied 1 to 1½ pounds an acre; DDT, applied 1½ pounds of actual insecticide an acre.

Set Up Test Irrigation Farm

Plans have been developed for the second irrigation test farm in Kansas. Raymond Kutina farm, 9 miles south of Ellis, has been approved as an irrigation experiment development farm, following meeting in Manhattan, March 3, of state technical committee on irrigation.

A third farm, where irrigation under practical farm conditions may be studied, is being investigated in Cloud county. Work will not duplicate specialized research carried on under Kansas Agricultural Experiment Station arrangements.

Mr. Kutina will develop about 40 acres for irrigation this summer and a maximum of 100 acres in a 3-year period. Grain sorghums, silage crops and alfalfa will be principal crops. Careful costs of land-leveling and irrigation development will be kept on both test farms, also records of crops and irrigation water used.

Watch Your Food

Make a strong ally of food, letting it help you in every possible way, especially if you are 60 years old or past. Being well-fed means your body will be at its best, you feel better, enjoy life! To help you choose foods for each day, read a new bulletin, "Food Guide for Older Folks." Send 5 cents to Farm Service Editor, *Kansas Farmer*, Topeka. Ask for USDA Home and Garden Bulletin No. 17. Watch your food, and be healthier!

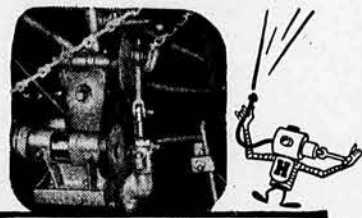
SEE HUDSON

for the Newest and Best in Sprayer and Duster Equipment

Never before has one manufacturer offered Sprayers and Dusters with so many new and better features to make your spraying and dusting easier, more economical, safer. Every one so completely different—with

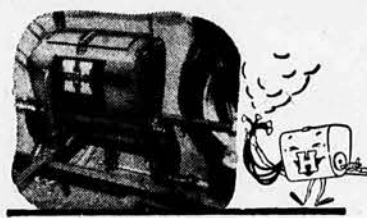
work-saving, long-life economy features you'll find in no other sprayers and dusters. We invite your comparison—check these important differences carefully and you'll surely choose HUDSON as your Best Buy too!

SEE PEEZY*... the P.T.O. Sprayer with a Piston Pump



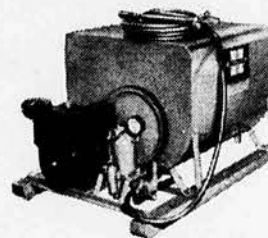
No gears to wear, no rubber to age... means long life, minimum service, and uniform output always. Rugged, hinged Hudson Multi-Boom with non-corroding brass tube and nozzles.

SEE DUSTY*... the new and better P.T.O. Duster



3 Ways Different to save you work, money! Heart-shaped non-clog hopper. Low speed agitator keeps dust mixed. 14-in. fan blasts at hurricane velocity. Mounts on any U.S. tractor.

SEE PEERLESS*... self- powered all-purpose Farm Sprayers



Unequaled for low cost, long service on all spraying jobs. On skids or pneumatic tires. 250, 400, 500, 800 lbs. pressure; 4 or 8 g.p.m. pump capacity. 15, 30, 50, 100, 150 gal. tanks.

SEE SIMPLEX® Innerseal® higher the pressure, tighter the seal



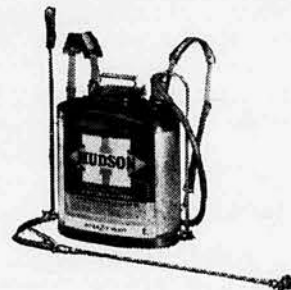
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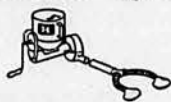


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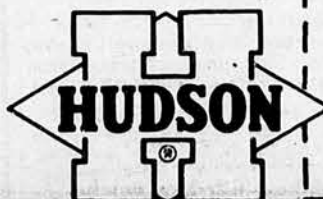
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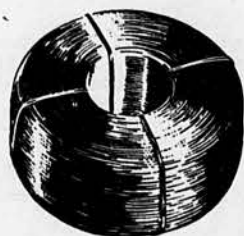
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Building Homes Around World
Newest Spending Idea

By CLIF STRATTON

Kansas Farmer's National Affairs Editor

LATEST international money-spending plan appears in the current issue of United Nations World magazine (editor, Quentin Reynolds). It is to establish an international World Housing Bank. Need is pointed out for 25 million new homes in South America; 150 million new homes in Asia.

The Housing Bank would be financed thru bonds subscribed by "private capital"—the bonds guaranteed by UN governments; principally Uncle Sam, of course. William V. Reed, who considers this "The World's Best Investment," also points out that, as usual in internationalist feeling, the United States largely is to blame for the slums all over the world.

"Nineteenth-century industrialization created the miserable slums of European cities," he writes... "The United States has provided much of the stimulus for the present wave of industrialization... The disease we have thus helped spread has been heightened immeasurably by the surge of nationalization that has swept the world and dislocated whole populations."

Feed the world; fight the world; house the world. Some starry-eyed internationalist will think of it soon—Uncle Sam to finance the construction and operation of a new Heaven. The possibilities inherent in President Truman's Point Four seem boundless.

Department of Agriculture is worrying, short range, over possible shortage of feed grains within the coming year. "USDA views the feed prospect with alarm," Wayne Darrow (Farmletter) puts it. With average yields, feed grain production will increase only from 113.5 million tons in 1951 to 121 million in 1952. Department wants 128 million tons to keep reserve from falling.

Reports of intentions-to-plant indicate a general shift to crops that require less labor—more soybeans and oats, rather than more corn. Shortage of farm labor is being "discovered" by Washington. Grassland farming is proving popular also—when the Department of Agriculture wants more corn planted.

Department also has some long-range worries. Witness the talk before the Ohio State University agricultural economic group, at Columbus, last month by Under Secretary of Agriculture Clarence J. McCormick.

"It is well that American agriculture is strong," he said. "It also is essential that the American public understand the position of the farmer today, and the enormity of task that faces him."

At the present rate of population growth, McCormick said, U. S. population would exceed 200 million persons by 1975. Bureau of Census makes allowance for slackening of increase rate in coming 23 years, and estimates it at only 190 millions.

By 1975 people of the United States may have their hands full feeding and housing themselves, without taking in all the world to support.

That was only your federal income tax you paid last March 15. Every day you pay out lots of pennies—dollars—in hidden and other taxes: tobacco taxes, stamp taxes on stock transfers and various instruments, and on playing cards, estate taxes, gift taxes, inheritance taxes, corporation taxes, transportation taxes, employment taxes, admission taxes, real and personal property taxes, sales taxes, excise taxes, and on and on and on.

Taxes on a 14-cent loaf of bread amount to 5 cents; on a 26-cent gallon of gasoline, taxes are 14 cents or so (varying in different communities); package of cigarettes selling for 21 cents includes 12 cents taxes; 23-cent quart of milk, 9 cents in taxes; 90-cent pound of beef includes 32 cents in taxes.

Farm price supports are expected to be more important generally this year than last. Farm prices were pushed high by Korea and inflation; well above support prices on some commodities. If prices sag some this year, the loan program will come back into the picture more heavily. Support prices are expected in the trade to be something like this:

Wheat—unless parity index drops

before July, \$2.22 bushel; announced price support now is \$2.17 or average farm price, whichever is higher. Futures prices now close to support level.

Corn—90 per cent of parity; \$1.60 February; not considered likely to go higher by fall.

Barley—\$1.22 bushel; grain sorghums \$2.38 cwt.; oats—78 cents bushel; rye—\$1.42 bushel; fixed prices, not affected by parity.

Rice—supports set at \$5.04 cwt.; could be changed by change in parity index, probably not much.

Flaxseed—1952 support at \$3.77 bushel, compared to \$2.65 on 1951 crop.

Soybeans—Fixed support at \$2.56 bushel, \$2.45 for 1951 crop; futures prices indicate prices at harvest time around support level, if big crop.

Eggs—no support program in effect; take pressure to get one.



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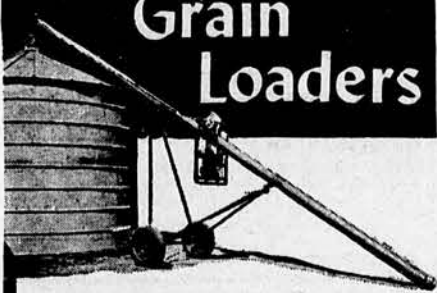
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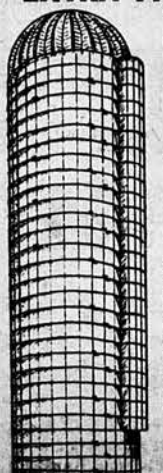
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Will Layers Be Short?

By G. D. McCLASKEY

MANY Kansas farmers are reluctant to buy chicks this spring for flock replacement. One reason has been dissatisfaction with the egg market. In some areas hatcheries are not operating. Yet reports from the agricultural statistician for Kansas shows more chicks are being hatched in this state than were hatched during the forepart of 1951, and much more than the average for the recent 5-year period.

According to the March 17 report, covering the preceding month, "commercial hatcheries in Kansas produced 4,150,000 baby chicks during February, up 20 per cent from a year earlier and 31 per cent above the 5-year (1946-50) February average. Total production for January and February was 5,470,000 chicks compared with 4,460,000 in the first 2 months of 1951."

The thinking seems to be that there are going to be too many chickens.

A point many are not considering is that pullet chicks started this spring will not produce eggs until late summer and fall. By the time pullet chicks are normally matured there will be an entirely different situation in the egg market. Every year, late summer and fall eggs are produced at a profit. Anyone who does not buy chicks this spring will not have egg producers next fall, unless he buys mature pullets. Buying pullets in the fall costs more money than it does to raise them during spring and summer. And, incidentally, the current egg market is edging up a little right now. In other words, the present egg-price situation is showing some improvement. And, too, the better the eggs are, the higher the price.

50 Per Cent as Broilers

Then there's another factor many do not seem to take into consideration. It deals with the increase in number of chicks produced by hatcheries. Take the figure for February—4,150,000 chicks produced by hatcheries in Kansas. It is a safe guess about one half of this number of chicks is going to broiler growers and not for flock replacement on farms. Chicks sold to broiler growers have no bearing on number of pullets on farms for egg producers.

Another point that should not be overlooked is that many hatcheries are destroying day-old cockerel chicks for which they have no sale.

Farmers, whose first interest is in egg production and who are buying chicks, are in general buying sexed pullet chicks. Cockerel chicks are left with the hatcherymen. In numerous instances these cockerel chicks are of the strictly egg breeds, such as Leghorns, crosses with Leghorns, and in-bred strains of which the Leghorn breed is a part. These are the kind of chicks broiler growers do not want. So about the only thing a hatcheryman can do is destroy them. Thus the number of cockerel chicks that are destroyed further reduces the total number of chicks that find their way to farms.

In the final analysis, deducting chicks sold to broiler growers and cockerel chicks of egg-bred breeds destroyed, a rather small number of chicks is going out for flock replacement on Kansas farms. It looks like we might be selling ourselves short on egg producers for next season.

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**One-Way and Disc Sharpener. Guaranteed satis-
faction or money refunded. Write, Hyatt Mfg.
Co., Kimball, Neb.**

• WEED SPRAY EQUIPMENT

**Tractor Weed Spray Outfits—Tremendous Sale
(good 30 days only). 5-row all brass T-jet
boom, P.T.O. bronze gear pump, hose, all fittings
and controls. Universal mounting. Regular
\$140.50. Special offer \$79.95. Write, E. J. B.**

• FILMS AND PRINTS

3c Deckledge Reprints 3c

Reprints size as negative 3c and oversize prints
4c. 6- or 8-exposure roll developed and printed
one each 25c or two each for 35c. Three 6x7 en-
largements for 50c. Four 8x10 for \$1.00. Your fa-
vorite photo copied and 10 billfold pictures 65c.
Summers Studio, Unionville, Mo.

20 DECKLEDGE REPRINTS 50c

6-8 Exposure roll developed and printed 25c;
12-exposure, 30c; Jumbo prints 4c each. Re-
quest complete prices.

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

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

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

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

**12 Jumbos from Roll, 35c. 8 Jumbos, 25c; with
this ad. I. Skrudland, Lake Geneva, Wisc.**

• DOGS

**Black English Shepherd Puppies. Breeder 30
years. Special price for this month. H. W.
Chestnut, Chanute, Kan.**

**Collie and English Shepherd puppies. Healers.
Dept. 1, Sunset Kennels, Hutchinson, Kan.**

• RABBITS AND PIGEONS

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

• OF INTEREST TO WOMEN

FINE COTTON QUILT PIECES

**Fine Needlework Precious Eyesight
Deserve the Best!**

Make prettier quilts with attractive, high-
quality quilt pieces, \$1.59 postpaid a bundle
(approx. 2 1/2 lbs.). Satisfaction guaranteed.
With each order free scissors sharpener while
they last.

STREETER'S, 2302 S. 17th, Chickasha, Okla.

**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.**

**Stainless Steel. Three thickness Vaporseal. One
quart sauce pan, \$6.00; Two, \$7.00; Three,
\$8.00; Six, \$12.00; Eight \$14.00; Twelve, \$20.50.
Percolators, \$10.00. Roasters. Falls, Major Co.,
71 Millford, Springfield, Mass.**

**Make Buttonholes the Easy Way! Sewing-ma-
chine Attachment also quilts, darts, overcasts,
seams, etc. Fits any sewing machine. Only \$1.
Satisfaction guaranteed. Paul Cohan Jr., Box
1245, Glendive, Mont.**

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

• FEATHERS WANTED

**West Chicago Pays More: Get highest cash prices
for your goose and duck feathers. Send sam-
ple 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.**

• AGENTS AND SALESMEN

**Man to Earn \$90 Week up. Long needed inven-
tion. Advertise Saturday Evening Post. Coun-
try Gentleman. Prospects everywhere. Full, part
time. Exclusive. No investment, free samples.
Write Red Comet, Inc., Dept. 91 B, Littleton,
Colo.**

• FARM EQUIPMENT

**Gigantic Surplus equipment sale. Amazing bar-
gains. Savings to 70%. Farm engines, A-C gen-
erators, hay winches, telephones, air compres-
sors, paint spray outfits, water pumps, electric
saw-drills, welders, chain saws, battery charg-
ers, binoculars, contour levels, many other items.
Special, finest farm telephones, \$12.40 each.
Freight prepaid. Rush card, illustrated sale cat-
alog. Burden Sales Company, 377 "O" Street,
Lincoln, Neb.**

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

**10 Carload Treated baler and binder twine.
Quality guaranteed. Big discount to dealers
and jobbers. Bob Stone—National Twine Dis-
tributors, Charlton, Ia.**

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

**Ford or Ferguson 24" Hus-Kee Tractor tool box.
Heavy steel. Low priced. Order from dealer or
write Metal Box Co., Valparaiso, Ind.**

**Fence Post—Red Cedar pressure creosoted pine
and poles. J. N. Waught & Sons, Batesville,
Ark.**

BALER WIRE FOR AUTOMATIC BALERS

New Holland \$11.58 per 100-lb. carton
Minneapolis-Moline 11.45 per 100-lb. carton
John Deere 9.78 per 100-lb. carton
International 11.76 per 100-lb. carton

ALLIANCE TRACTOR & IMPLEMENT CO.
Alliance, Neb. Phone 1218

ORDER NOW ALFALFA SWEET CLOVER

For Prompt Shipment
Tested and recleaned.

KANSAS ALFALFA per bu. \$45.00
SOUTHWESTERN per bu. 39.60
SWEET CLOVER—WHITE or YELLOW. . . per bu. 10.20

We carry a full line of Farm Seeds. Write for prices.

THE KANSAS SEED CO.

KANSAS FARMER Classified Advertising

WORD RATE

10¢ 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

DISPLAY RATE

Column Inches	Cost Per Issue	Column Inches	Cost Per Issue
1/4	\$1.90	2	\$19.80
1/2	9.80	3	29.40

Minimum—1/4-inch.
Cuts are permitted only in Poultry, Baby Chicks,
Livestock and Pet Stock Ads.
Write for special display requirements.

Kansas Farmer, Topeka, Kan.

• KANSAS CERTIFIED SEED

KANSAS CERTIFIED HYBRID SEED CORN

K1784	K1639	K1585	K1859
All flats—\$10.00 per bushel			
All Medium Rounds—\$7.50 per bushel			
All Large Rounds—\$5.50 per bushel			

We pay freight on all orders of 3 bu. or more.
JOHN L. WINGERT & SONS
Dunlap, Kansas

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

**Certified Nemaha Seed Oats, \$2.35 per bushel.
94% germination. Bruce S. Wilson, Manhat-
tan, Kan.**

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

**For Sale: Kansas Certified Hybrid Seed Corn.
Thello Dodd, Concordia, Kan.**

• SEEDS

ALFALFA SEED

**Hardy Northern Processed Alfalfa seed,
\$29.85 bushel; Sweet Clover, Red Clover, Tim-
othy, Ladino, Lespedeza, Brome, many other
seeds. Lowest direct to you prices, quick
service, satisfaction guaranteed. Save money
Send postal now for catalog, prices, samples
JACK BOWMAN, Box 615, Concordia, Kan.**

**Good Hybrid Seed Corn. U. S. 13, Ohio C92, In-
diana 620, Iowa 4297, Medium Large, Medium,
Medium small flats \$6.50 bushel, small flats,
rounds \$5.00 bushel. Germination 94 to 98%.
Catalog free. Joslin Seed Farms, Holstein, Ia.**

**King Ranch Bluestem Grass Seed. Planting in-
structions and prices. Guy Hutchinson, Uvalde,
Tex.**

• PLANTS AND NURSERY STOCK

**Vegetable Plants—Large, stalky, well rooted,
hand selected, roots mossed. Cabbage—Jersey
Wakefield, Charleston, Wakefield, Flat Dutch,
Copenhagen Market, 200—75c; 300—\$1.00; 500—
\$1.25; 1,000—\$2.25. Onions—Crystal Wax, Yel-
low Bermuda, Sweet Spanish, 300—75c; 500—
\$1.00; 1,000—\$1.75; 2,000—\$3.00. Tomatoes—
Earliana, John Baer, Marglobe, Bonny Best, Rut-
gers, 200—75c; 300—\$1.00; 500—\$1.50; 1,000—
\$2.50. All postpaid. Prompt shipment. Satisfac-
tion guaranteed. Culver Plant Farms, Mt. Pleas-
ant, Tex.**

**Strawberry Plants—Certified Blakemore, Pre-
mier, Giant Robinson, Dunlap, Aroma and
Kondike, 50—\$1.00; 200—\$3.00; 500—\$6.00;
1,000—\$10.00. The Great New Armure heavy
yielder Blakemore Aroma cross, 25—\$1.00; 100—
\$3.00; 500—\$12.50; 1,000—\$20.00. Everbearing
Strawberries—large thrifty plants will bear this
year. 20th Century and Superfection, 25—\$1.00;
100—\$5.50. Gem, Mastodon and Streamliner, 50
—\$1.50; 100—\$2.50. All postpaid. Price list free.
Ideal Fruit Farm, Stilwell, Okla.**

**Strawberry Plants—Hardy northern grown, dou-
ble inspected Dunlap, Beaver, Blakemore,
Premier, Giant Robinson, Bellmar 200—\$2.00;
500—\$4.50; 1,000—\$8.50. Giant Gem, Stream-
liner, Minnesota, 1186 everbearing, 100—\$2.25;
500—\$10.00. Gladjolus-Florist-Mix, 17 varieties,
blooming size, 125—\$1.00. Fresh plants, prompt
shipment. Iowa Nursery, Farmington, Ia.**

**Chinese Elm — Worlds fastest growing shade
tree 8 feet high, large caliper with nice heads,
75c each; 6 feet, 50c each Catalpa, hard and
soft Maple, same price by express not prepaid
(too large for parcel post). Minimum order, 4
trees, 10 trees or more 10c per tree less. Ideal
Fruit Farm, Stilwell, Okla.**

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

• FLOWERS AND BULBS

**Gladjolus, 100 Giant exhibition varieties, Dahlias,
Tuberous Begonias, Gloxinias, Lilies, Cannas.
Money saving specials. Free catalog. Foley Gar-
dens, Freeport, Ill.**

**Free Rose Catalog—32 pages, full color, showing
1952 All-American winners and 140 varieties of
rose garden favorites. Arp Roses, Inc., Box 178-
KF, Tyler, Tex.**

● FOR THE TABLE

HONEY Mixed 60-lb. Can **\$10.50**

Extracted—Pure as bees can make it.
 60-lb. Can Clover, FOB.....\$12.00
 60-lb. Can Mixed, FOB.....10.50
 12-lb. Can Clover (Postpaid to 600 mi.)... 3.85
 12-lb. Can Mixed (Postpaid to 600 mi.)... 3.50
 Order Promptly Supply Limited
HAHN APIARIES, 1715 Lane St., Topeka, Kan.

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AUCTION SCHOOL

Learn Auctioneering. America's Leading Auctioneers Teach You. Students sell actual sales. Largest school in world. 19 years in operation. Don't be misled. Term soon. Free catalog. Write **REISCH AUCTION SCHOOL, Mason City, Iowa**

Make Money Spare Time upholstering. Learn quickly at home. Easy course includes tools, materials to make ottoman. Booklet free. Commercial Trades Institute, Dept. FJ, Chicago 26, Ill.

Be An Auctioneer. Term soon. Write for information. Missouri Auction School, 3241 Paseo, Kansas City, Mo.

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

● WANTED TO BUY

Highest Cash Paid for Old, Broken Jewelry, Gold Teeth, Watches, Silverware, Diamonds, Spectacles. Free Information. Satisfaction guaranteed. Rose Smelting Company, 29-KA East Madison, Chicago.

Wanted Electric Lighting Plants, alternating current, any make, size. Mr. Conklin, 105 East Bethune, Detroit, Mich.

Wanted—Fox Terrier Puppies. Box R, Stafford, Kan.

● REMEDIES—TREATMENTS

Free Book — Piles, Fistula, Colon-Stomach, associated conditions. Latest methods. Thornton & Minor Hospital, Suite C406, Kansas City 3, Mo.

● FARMS—MISCELLANEOUS

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

Strout's Two Spring Catalogs—World's largest. 32nd year. Farm Homes, Businesses, 3846 bargains. East and Mid-West Green cover; West Coast edition Yellow. Either Free. Strout Realty, 20-V West 9th St., Kansas City 6, Mo.

Good Homes in the Ozarks. Free lists. Owensby, Buffalo, Mo.

● OF INTEREST TO ALL

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

\$300.00 for an Old Phonograph record. For 1,500 record listings and complete details send \$1.00. National Associates, 1264-H No. Harper, Hollywood 46, Calif.

Fish Bait—Over 20 recipes and suggestions only 10c and stamp. Many favorable reports received. K. F. Fisherman, 1715 Lane, Topeka, Kan.

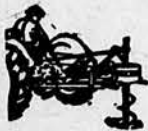
Don't Feed Sparrows. Make your own trap and catch thousands. Write for details. Roy Vail, LaGrange 15, Ind.

April 19**Will Be Our Next Issue**

Ads for the Classified and Livestock Section must be in our hands by

Friday, April 11

If your ad is late, send it in Special Delivery to 912 Kansas Ave. Kansas Farmer, Topeka, Kan.

POST HOLE DIGGER

The modern "Rapidigger" for Ford, Ferguson tractors. No gears, drive-shaft. Revolutionary invention. Guaranteed Performance. Write for information. **RAPIDIGGER, 4605 Lowell St., Lincoln, Neb.**

Easiest, surest way in the world to **KILL RATS AND MICE**

BANARAT

— made with warfarin. BANARAT BITS, ready-to-use bite-size pellets with special appetizer — and BANARAT PREMIX concentrate. Made and guaranteed by American Scientific Labs., Madison 1, Wis.

Here lies **A. RAT** He fooled the cat, But fell in Love with **BANARAT**

NEW J-H TIMED GRAIN ROLLER!

complete with feeder and elevator!



IT'S PORTABLE THE ORIGINAL JOHNSON-HENKE MILL! FREE DETAILS—WRITE **JOHNSON DISTRIBUTING CO.**

Kansan's Gift Steer Wins Championship

THIS CHAMPIONSHIP steer was a gift from John Vanier's CK Ranch, Brookville. He gave the calf to Minnie Marie Hopkins, 17-year-old Sayre, Okla., girl during 1950 American Royal, when it was learned the one she was grooming for the next show circuit died. She said then she would bring the calf back and win. The 1,160 pound Hereford steer has been selected as grand champion of the Oklahoma Annual 4-H and FFA Livestock Show held in Oklahoma City, Okla. Steer sold for \$3 per pound to the Sirloin Club of Oklahoma City.

Public Sales of Livestock

Aberdeen-Angus Cattle
 April 7—"The St. Joseph Reg. Aberdeen-Angus Bull Sale, Purebred Livestock Sale Pavilion, St. Joseph, Mo." Donald J. Bowman, Sales Manager, Hamilton, Mo.

April 10—Mid-Kansas Aberdeen-Angus Sale, Hutchinson, Kan. Lloyd Ericson, Sales Manager, Marquette, Kan.

April 16—Humeston Angus, Humeston, Ia. Donald J. Bowman, Sales Manager, Hamilton, Mo.

April 21—Ericson, Thalman and Davis Production Sale, Hutchinson, Kan.

April 22—Northeast Kansas, Hiawatha, Kan. Harry Dandliker, Secretary, Hiawatha, Kan.

May 1—G. W. & Ada C. Caldwell, Hiarlan, Kan. May 13—Marycrest Farm, Maloy, Ia. J. B. McCorkle, Sales Manager, 3500 AIU Bldg., Columbus, O.

May 19—Red Oak Farms, Rocky Comfort, Mo. J. B. McCorkle, Sales Manager, 3500 AIU Bldg., Columbus, O.

Ayrshire Cattle
 April 25—Mid-Kansas Ayrshire Sale, El Dorado, Kan. Dwight E. Hull, Sales Manager, El Dorado, Kan.

Guernsey cattle
 April 7 and 8—St. Albans Farm, St. Albans, Mo. Louis Merryman & Sons and Missouri Guernsey Breeders' Association, Managers, Columbia, Mo.

April 14—Missouri Breeders' Association, Columbia, Mo. H. A. Herman, Secretary, Eckles Hall, Columbia, Mo.

April 18—"The Heart of Herefordom," Reg. Hereford Consignment Sale, New Ferd Owens Sale Pavilion, Belton, Mo.

May 14—Harvey M. Booth Hereford Dispersal, Baldwin, Kan. Sale at Ottawa, Kan.

September 5—Lull Hereford Farms, Smith Center, Kan.

October 6—Hiland Stock Farms, Superior, Nebr. Melvin Schiermeyer, Owner.

October 6—Beeks-Cleland, Baldwin, Kan.

October 9—Jim Riffel, Junction City, Kan.

October 11—CK Ranch, Brookville, Kan.

October 27—John W. Spencer, Straight Creek Farms, Whiting, Kan. Sale at Marysville, Kan.

October 30—Flint Hills Association, Cottonwood Fall, Kan.

November 6—Lincoln County, Sylvan Grove, Kan.

November 11—Tonn & Fishburn, Haven, Kan.

November 24—Sumner County Hereford Breeders' Association Sale, Wellington, Kan. Paul M. Phillips, Secretary-Treasurer, Argonia, Kan.

Holstein Cattle
 May 15—Central Kansas Breeders Spring Consignment Sale, Hutchinson, Kan. T. Hobart McVay, Sales Manager, Nickerson, Kan.

May 22—East Central Kansas Holstein Sale, Tonganoxie, Kan. Grover Meyer, Sales Manager, Basehor, Kan.

October 8—Kansas State Holstein Association Sale, Herington, Kan. R. L. Evans, Hutchinson, Kan. Chairman State Sale Committee.

October 23—Central Kansas Breeders Fall Consignment Sale, Hutchinson, Kan. T. Hobart McVay, Sales Manager, Nickerson, Kan.

October 29—Nebraska State Holstein Association Sale, Lincoln, Nebr. Robt. Koehler, Fremont, Secretary. T. Hobart McVay, Sales Manager, Nickerson, Kan.

Shorthorn Cattle
 April 11—Mid Kansas Association, Salina, Kan. M. F. Aegerter, Sales Manager, Seward, Nebr.

April 12—Henry Dietz, Wakeeney, Kan. Mervin F. Aegerter, Sales Manager, Seward, Nebr.

April 15—Shorthorn and Polled Shorthorn Breeders Sale, Superior, Nebr. Mervin F. Aegerter, Sales Manager, Seward, Nebr.

June 6—W. A. Cochell and D. W. Bishop, Gashland, Mo. Mervin F. Aegerter, Sales Manager, Seward, Nebr.

Milking Shorthorn Cattle
 April 14—J. W. McFarland & Son Dispersal, Sterling, Kan. C. O. Heidebrecht, Sales Manager, Inman, Kan.

April 19—South Central District All Heifer Sale, fairgrounds, Hutchinson, Kan. C. O. Heidebrecht, Sales Manager, Inman, Kan.

April 25-26—National Milking Shorthorn Show and Sale, Springfield, Mo. American Milking Shorthorn Society, Managers, 313 So. Glenstone, Springfield, Mo.

April 28—Hartmoor Dairy Sale, W. L. Hartman, Wichita, Kan. C. O. Heidebrecht, Sales Manager, Inman, Kan.

Polled Shorthorn Cattle
 April 10—Missouri Breeders' Association, Sedalia, Mo. Rollo E. Singleton, Secretary, care State Department of Agriculture, Jefferson City, Mo.

Duroc Hogs
 April 10—Herman Popp, Haven, Kan. Sale at Moundridge, Kan.

Hampshire Sheep
 May 8—Missouri Breeders' Association, South St. Joseph, Mo. Glen Armentrout, Sales Manager, Norborne, Mo.

Sheep
 April 21—Registered Ram Sale, Hutchinson, Kan. Phil Fanning, Sales Manager, Ottawa, Kan.

April 30—Oklahoma Registered Sheep Sale, Enid Fairgrounds, J. B. Hurst, Sales Manager, Box 1066, Enid, Okla.

Sheep (all breeds)
 May 1—Kansas Purebred Sheep Breeders Association (ram sale), Kansas City Stock Yards.

May 12—Sixth Annual Purebred Show and Ram Sale, Hutchinson, Kan.

Trend of the Markets

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

	Week Ago	Month Ago	Year Ago
Steers, Fed	\$36.00	\$36.50	\$38.50
Hogs	17.75	18.00	22.50
Lambs	28.50	25.00	41.00
Hens, 4 to 5 lbs.24	.25	.34
Eggs, Standards33	.32	.41
Butterfat, No. 169	.75	.63
Wheat, No. 2, Hard ...	2.56 1/4	2.51 1/4	2.56 1/4
Corn, No. 2, Yellow ...	1.97	1.85	1.72 1/2
Oats, No. 2, White ...	1.03 1/4	1.06 1/4	1.07 1/4
Barley, No. 2	1.48	1.48	1.55
Alfalfa, No. 1	35.00	35.00	34.00
Prairie, No. 1	26.00	27.00	16.50

Reg. OIC Bred Gilts
Chester Peterson
 Osage City, Kan.

REGISTERED POLAND CHINA
 Fall Boars and Bred Gilts. Sired by the great Santa Fe. Priced to move. Gilts bred to Silver Star Cholera immune and ready to go.
C. B. ROWE & SON, Scranton, Kansas

FOR SALE

Extra good Fall Reg. Spotted Boars.
ROY G. KELLER, Berryton, Kan.

SPOTTED POLAND CHINA
 Fall Boars and Fall Gilts, of popular bloodlines. Vaccinated and registered.
EARL J. FIESER, Norwich, Kansas

HAVEN HOLLOW FARM DUROCS
 Fall boars and open gilts, By Stylish Wonder and Fleet. Some of the best we've ever raised. Come see them or write.
G. F. Germann & Son, Manhattan, Kansas

3rd ANNUAL DUROC SALE

40 Head of Boars and Gilts
 Sale at

Moundridge, Kansas
April 10, 1952

Top bloodlines for commercial producer as well as a lot of show prospects.

For catalog write owner:
HERMAN POPP, Haven, Kan.

AYRSHIRE STATE CONSIGNMENT SALE**April 25, 1952**

12:00 Noon

El Dorado, Kan.

Young springing and fresh cows—bred heifers — heifer calves, some suitable for 4-H. A few choice bulls.

Sale sponsored by

Mid-Kansas Ayrshire Club

This sale offers opportunity for dairymen needing more milk production or interest in starting a registered herd or for established breeder.

Cattle all on display day before sale. Sale in comfortable 4-H Club building.

For information and catalogs write

DWIGHT E. HULL, El Dorado, Kan.
 Aucts.: Mike Wilson and Walter Hand

PROMOTIONAL SALE OF**REG. GUERNSEY HEIFERS****April 19, Erie, Kansas**

SALE PROMPTLY AT 1:00 P. M.

41 HEAD

8 Bred Heifers due to calve this fall.
 21 Open Heifers of breeding age.
 12 Heifer Calves will make good 4-H Club projects.

These heifers are backed by some of the best breeding and production. They are from herds whose owners are making their living milking cows. They may be inspected before sale date, at the 4-H Club Fairgrounds, Erie, Kan.

For catalogs write

C. J. GRABER

Route 1 Newton, Kan.

Charles Cole, Auctioneer

Sponsored by the

Kansas Guernsey Breeders' Assn.**HOLSTEIN BULL CALVES From Kansas' Highest Record Herd**

1951 Average: 15,722 M 3.9% 610.6 F 2X
 This following five consecutive years averaging from 510 lbs. fat to 584 lbs. fat all on twice-a-day milking. We have available one bull calf of service age, a few that will be ready by late summer or early fall, and several of the best baby calves in years. We have a wide range of prices and believe we can satisfy the most discriminating of buyers. We have bred for high test and good udders. Write for more information or better still pay us a visit and see for yourself.

ERNEST A. REED & SON

Lyons, Kansas

DALE KUBIN'S**Dale-Mar Farm Holstein's**

We have a serviceable-age bull out of a Good Plus daughter of Smoky Joe. Excellent. Gold Medal Sire. She made 516 lbs. fat, at 3 years. The sire's dam has 4 records about 800 lbs. fat. If you need a top service aged bull come to

DALE KUBIN, McPherson, Kansas**WISCONSIN DAIRY CATTLE**

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

RELIABLE ADVERTISERS ONLY ARE ACCEPTED IN KANSAS FARMER

MANY GUERNSEYS PRODUCE
 a gross milk income of more than
\$75 A MONTH

Plus an
EXTRA YEARLY DIVIDEND
 of a VALUABLE CALF

Write for
FREE
 75th Anniversary
 Booklet
LIQUID GOLD



THE AMERICAN GUERNSEY CATTLE CLUB
 225 Main St.
 Peterborough,
 N. H.

Please send free copy of
LIQUID GOLD

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Address _____

City _____ State _____

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FIRST and FOREMOST

MINNEAPOLIS-MOLINE

MODERN MACHINERY

LP Gas FACTORS

CHEAPER POWER BY THE HOUR

FOR YOUR TRACTOR JOBS . . . Stepped-up Power, Lower Operating and Maintenance Costs!

With LP gas, the already economical MM engines offer fuel economy to give you cheaper power by the hour. The cold manifold and the increased horsepower not only assure lower fuel cost but all-around economy as well. The economical LP dry gas is a high octane gas composed of butane, propane, or a combination of both, that burns clean, eliminates carbon deposits and crankcase dilution . . . keeps lubricating oil free of contamination, usable longer. With the longer power impulse, uniform bearing pressures are maintained, the engine runs cooler and vibration is reduced to a minimum.

And MM has built *safety* into every inch of these powerful tractors. MM LP gas tractors meet the safety requirements of *all* states. Special cylinder heads, special carburetors, and special heavily built tanks with pressure-resisting MM pop-off valve are standard equipment on all MM LP gas burning tractors since 1941. The entire MM tractor is engineered and built to exacting specifications to take advantage of all the benefits of this fuel.

Economical high-power MM LP gas tractors may be equipped with Uni-Matic power for smooth, accurate, hydraulic control of mounted or pull-behind tools. Like all MM tractors, MM LP gas models are VISIONLINED for best visibility under all operating conditions.

Think of it! Smoother engine performance and usually more tractor power for drawbar, power take-off, belt and Uni-Matic jobs. Greater economy all the way around through lower fuel bills, less oil consumption, and reduced wear and tear on the engine.

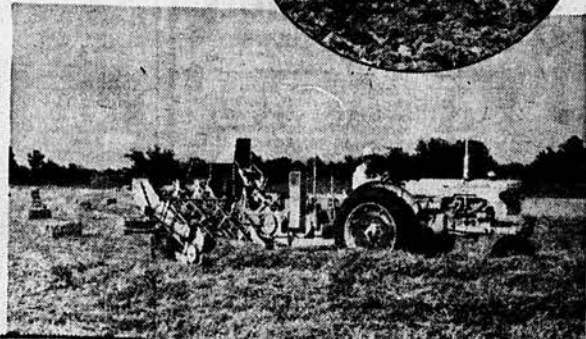
That's right! Any progressive farmer can enjoy these tractor power advantages with factory-built LP gas tractors.

The MM Model G 4-5 plow, the Model U 3-4 plow, and the Model Z 2-3 plow tractors are factory-built for best results on low cost LP gas fuel.

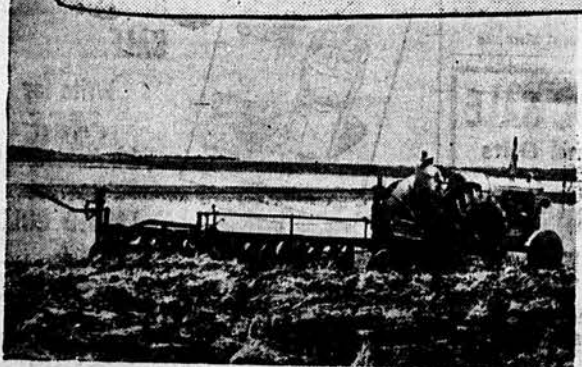
Now available for Models Z, U, and G tractors: complete change-over parts, factory-engineered for maximum power and economy on LP gas. Supplied only by your friendly MM Dealer.

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QUALITY CONTROL IN MM FACTORIES ASSURES DEPENDABLE PERFORMANCE IN THE FIELD!



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Gain the added profits from portable sprinkler irrigation this year. Rocky Mountain Irrigation Sales (representing Farm Improvement Co.) bring you technical designing experience which will insure you the greatest possible irrigation at minimum investment. Aluminum is in short supply. Write us at once for literature, copies of our publication, Irrigation News, and a planning chart for our preliminary estimates.

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BUILDS BEEF FASTER



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St. Joseph, Missouri

IMPORTANT NEWS About SILOS

If you are thinking about a new silo, send us a postcard for the latest news. We have important new information worth a lot of money to any man figuring on building a silo. No one can afford to build a silo without this news which can save him hundreds of dollars. Avoid disappointment and loss when you buy. This news will be supplied you FREE. No cost. No obligation. Just send us a postcard asking for this important information.

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F.H.A. Financing Available Now

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7½' to 30' 2-3-4-6-8 row

PROVEN ON 2 MILLION ACRES

Cultivate better, faster. 120 acres per day with 4 row shown. Use on sown and drilled crops before and after crop is up! Cross-cut action triples soil disturbance. Increases yields—won't harm crops.

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NEWTON, IOWA

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Wake Up To More Comfort

Without Nagging Backache

Nagging backache, loss of pep and energy, headaches and dizziness may be due to slowdown of kidney function. Doctors say good kidney function is very important to good health. When some everyday condition, such as stress and strain, causes this important function to slow down, many folks suffer nagging backache—feel miserable. Minor bladder irritations due to cold or wrong diet may cause getting up nights or frequent passages. Don't neglect your kidneys if these conditions bother you. Try Doan's Pills—a mild diuretic. Used successfully by millions for over 50 years. It's amazing how many times Doan's give happy relief from these discomforts—help the 15 miles of kidney tubes and filters flush out waste. Get Doan's Pills today!

Worth Its Weight

(Continued from Page 10)

and Vocational Agriculture judging contests, however, were started the year I came. Last year we had 433 judging teams here, which means about 2,000 farm youths, and another 1,000 persons attended feeder's day part of the Round-up.

A wheat growers field day was started by Aicher and A. F. Swanson in 1922, and a sorghum field day about the same time. "We didn't have these every year—just years when crop conditions were good enough for experimental plots to show well," says Mr. Aicher. "Now we are planning an annual grass utilization field day to show off the grazing investigation work started 6 or 7 years ago."

Greatest Single Achievement

If you ask Mr. Aicher what he believes is the greatest single achievement of the branch station during his 31 years there, he probably will say: "The progress made in seeding, harvesting, treating, and handling Buffalo grass seed." He gives most of the credit on this to L. E. Wenger, at one time in charge of forage crop investigations there.

"While Buffalo grass is our major forage crop in Western and Central Kansas," says Mr. Aicher, "it did present a great many problems. One of the toughest was a natural dormancy of the seed. It was Mr. Wenger who came up with the answer. He learned that by soaking the seed in a ½ of 1 per cent solution of saltpeter for 24 hours, then chilling for 6 weeks at 40 degrees, with re-soaks for 3-hour periods every 2 weeks, natural dormancy could be overcome."

"This discovery became very important during World War II. In 1943, the Army Air Force was desperate to find some method of seeding down airfields in Kansas and other plains states. Officials came to us for help. We estimated they would need 60,000 pounds of Buffalo grass seed to do the job."

Get Needed Equipment

"We could get the seed but didn't have equipment to process that much to overcome dormancy. They got us the needed refrigerator equipment, which we later acquired from them after the war. These refrigerators now are the basis for our seed treating center."

Actually, the Hays station has the only Buffalo grass seed treating equipment in Kansas. The entire basement of the utility building is used for processing. More than 800,000 pounds of Buffalo grass seed have been treated there.

Sorghum grains and sorghum silage also are favorites of the retiring superintendent. Some of the most outstanding sorghum breeding work in the world was done at Hays station during the last 30 years by A. F. Swanson, of USDA Bureau of Plant Industry. Mr. Swanson now is in South America on a special agricultural mission.

Believes in Silage

Mr. Aicher is a great believer in silage as feed and in the "practice what you preach" idea of always carrying a good feed reserve. "We have 10 pit silos of 200 tons each," he says. "We also have one 500-ton and one 800-ton trench silo. We are not touching the 800-ton silo this winter."

This 800-ton trench is giving the station a chance to experiment with various types of cover for trenches. It is divided into 4 sections for this purpose. One section is covered with 6 inches of dirt; another with Sisalcraft paper plus 3 inches of dirt; another with a 1-foot layer of alfalfa seed threshings plus 3 inches of dirt; and a 4th with 18 inches of alfalfa seed threshings held down with a few planks laid on top.

"This silo will be opened next fall to study spoilage," Mr. Aicher says.

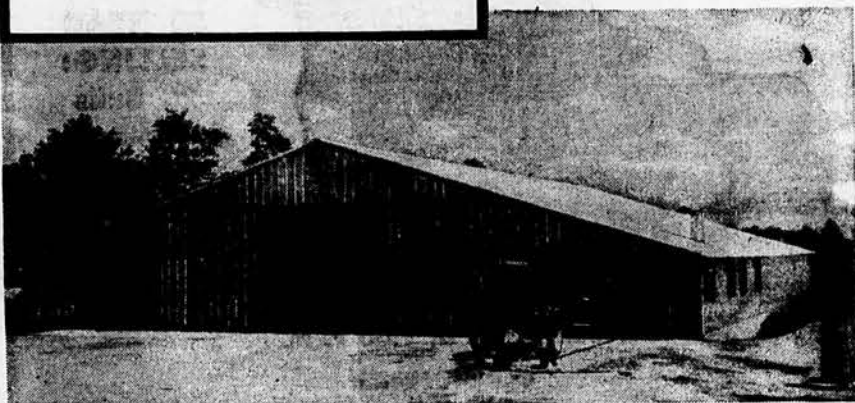
In the April 19, issue of Kansas Farmer we will give you some interesting highlights (with pictures) on development of farm machinery at the Hays station. In trying to meet the complex problems of farming the station, Mr. Aicher was years ahead of his time on farm machinery design. A study made by Doctor Farrell shows that up to 1944 about 30 machines, or parts of machines, had been designed, built and tested at the Hays station.

We really saved money with our Butler Building

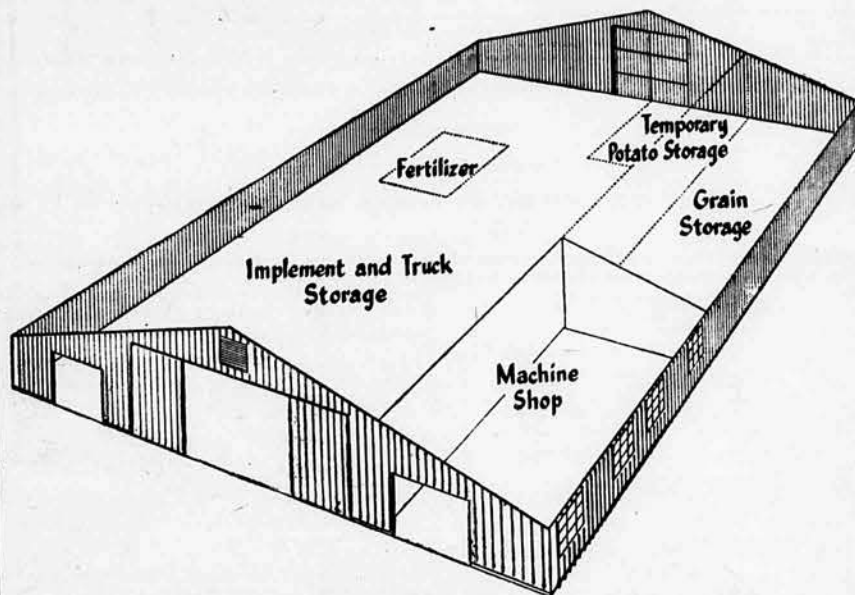


Burt (left) and Chet Spafford are potato growers and farm more than 1,000 acres near Rhinelander, Wis.

say Burt and Chet Spafford Rhinelander, Wisconsin



"We decided on a Butler Building because it is firesafe, consequently, we have savings in insurance; our requirements for a repair shop, grain storage and machinery shelter can be fulfilled with one building; and we will realize a large saving in the low initial cost and future maintenance."



Butler Building used by Spafford Brothers has over-all size of 80'x100'. Structure consists of 40' rigid frame building with 20' rigid frame lean-to's on each side. A 20'x40' section at front end, insulated and heated, is used as machine shop. Behind the shop is a 20'x60' section used for grain storage. Remainder of building is normally

used for implement, truck and machinery shelter and miscellaneous storage. Sacked fertilizer is stored in part of this section, and floor plan shows two areas temporarily in use for storage of sacked and bulk potatoes.

Like Spafford Brothers, you can have a safe, sturdy, multi-purpose farm building at a savings. Buy a Butler Building . . . custom-engineered to work for you 12 months every year. See your Butler dealer, or mail coupon for information.

Straight Sidewalls . . . Use all the space you pay for.

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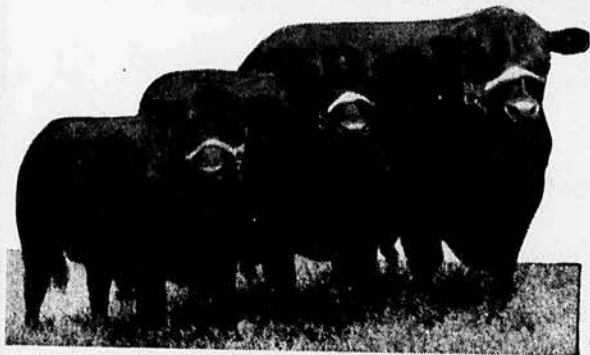
NORTHEAST KANSAS ABERDEEN-ANGUS
BREEDERS' ASSOCIATION Announce Their

ELEVENTH SALE OF REG. ABERDEEN-ANGUS CATTLE

Tuesday, April 22, 1952

at sale barn 1/2 mile west of

Hiawatha, Kansas



80 HEAD
SELLING:
20 Bulls
50 Females
and 10
Commercial
Heifers

Sale starts at 1:00 P. M.

CONSIGNORS:

	Bulls	Females
HUGH GILMORE, Highland	1	1
W. D. GILMORE, Highland	0	4
GEO. A. HOOK, Morrill	0	8
HENRY TEGTMEIER, Bern	1	2
C. E. WARD and E. H. MENSEN, Highland	1	2
SUNFLOWER ANGUS FARM, Everest	1	4
STERLING GILMORE, Highland	1	0
BOYD WILLIAMS, Netawaka	0	2
WARD GILMORE, Highland	1	0
ALVIN KRAMER, Onelida	2	1
FRED HAHN, Rulo, Nebr.	1	0
WAYNE UKENA, Everest	1	0
SIDNEY HARGIS, Highland	1	0
HARRY UKENA, Robinson	1	0
ROY MARTIN, Highland	1	2
CHARLES SCALAPINO, Everest	1	2
ROBERT MILLER, Highland	1	5
HARRY DANDLIKER, Hiawatha	1	10
A. S. KERN, Hiawatha	2	7

A good place to get a start in registered cattle or add to your herd, Tb. and Bang's tested.

Lunch at Sale

For catalogs write to:

HARRY DANDLIKER, Secretary, Hiawatha, Kan.
Mike Wilson for Kansas Farmer

SHEEP

OKLAHOMA REGISTERED SHEEP SALE

Fairgrounds—Rain or Shine

Enid, Oklahoma
Wednesday, April 30

12:00 Noon

235 HEAD

91 Dorsets 55 Hampshires
26 Shropshires 32 Southdowns
21 Suffolks 10 Corriedales

There has never been such a large collection of good Ewes—Rams—Lambs.

Sponsored by the
Garfield County Sheep Br. Assn. and
Oklahoma Sheep Breeders' Assn.
For catalog write the secretary,
J. B. HURST, Box 1066, Enid, Okla.

REGISTERED RAM SALE Hutchinson, Kan. Monday, April 21

Suffolk, Hampshire, Shropshire and Southdowns. Over 50 head of big, rugged Suffolk rams.

For catalog and information write
PHIL FANNING, Manager
Ottawa, Kansas

SUFFOLK SHEEP
Booklet, list of breeders free.
Write National Suffolk Sheep Association
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MORE PROFITS under AVERAGE FARM CONDITIONS

with **TRULY** **DUAL PURPOSE**
MILKING SHORTHORNS

BEST in EVERY WEIGH

Under average farming conditions, Milking Shorthorns will give more profit because they convert home-grown feeds and roughage into meat, milk and butterfat most economically. A Milking Shorthorn holds highest butterfat record in world—also highest records on twice-a-day milking! Milking Shorthorns are BIG... have capacious deep body and mammary development of dairy cattle. Their TWO-WAY bargaining value plus greater saleability of calves means greater farm security under uncertain world conditions. Get FREE facts or subscribe to Milking Shorthorn Journal, 6 months, \$1.00; \$2.00 per yr.; 3 yrs., \$5.00.



ATTEND NATIONAL ALL-FEMALE

CONGRESS, SPRINGFIELD, MO., Apr. 25-26!
Biggest Milking Shorthorn Sale of the year! Selections made by same methods as for a national show. Cows not more than 7 years old at last birthday; heifers not less than 18 months old and bred. All animals accepted for sale required to pass inspection of committee appointed by State of District Association. Each State or District Association limited to ten (10) head. Come one! Come all! You'll enjoy seeing your friends, attending banquet, meetings, etc. Write for FREE CATALOG!

AMERICAN MILKING SHORTHORN SOCIETY
Dept. P-S, 313 So. Glenstone Ave., Springfield, Mo.

MILKING SHORTHORN SALE Monday, April 28, 1952 WICHITA, KANSAS HARTMOOR DAIRY

W. L. Hartman, Owner, Wichita, Kan.

30-HEAD-30

Come and see these cattle at the farm 5 east of Broadway on Central and 1/2 north, or 1 1/2 north of Drive-In Theatre on U. S. 54. This will be one of the better sales of the year. More particulars later.

For catalog and information write

C. O. HEIDEBRECHT, Sale Mgr.
Inman, Kansas

You'll Like These "Good Doing"

DIETZ SHORTHORNS

That Sell

April 12 at Wakeeney, Kan.

Wakeeney Livestock Commission Co.

Sale Pavilion located at the west edge of town—1:00 P. M. CST

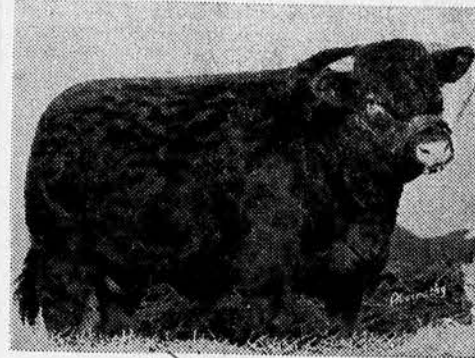
SELLING

5 Bulls

17 Cows and
Calves

22 Bred Heifers

7 Open Heifers



HILLCROFT VICTORY

Featuring the Get and Services of

Aberfeldy Insignia—Canadian bred son of Glenburn Goldcup.

Strowold Favorite Stamp—1947 Pike County Sale top selling son of Imported Lawton Favorite.

Hillcroft Victory—1948 International Congress Sale champion bull that we purchased for \$3,750.

Roths Silver Mercury—1951 Mid-Kansas grand champion bull, grandson of 2 Perth champions.

The 5 bulls include 3 red yearling sons of Aberfeldy Insignia and 1 each by a son of Newallyn Crocus King and a son of Edellyn Reliant Mercury. There will be 17 cows with big husky calves at foot by Aberfeldy Insignia, Strowold Favorite Stamp, Roth's Silver Mercury and Hillcroft Victory. These cows include daughters of Marksman Command, Strowold Favorite Stamp, Heifred Nimrod, Commander's Diamond, a son of Imported Beaufort Command, that did us a lot of good, Edellyn Radiant Command, Aberfeldy Insignia and Hillcroft Victory. The 22 bred heifers and 7 open heifers are a choice lot representing the get and services of the 4 herd bulls listed above. Everything sells Tb. and Bang's tested and we have always followed the careful plan of calfhood vaccination for Bang's. These cattle will not be highly fitted but just right to go on well in their new owners hands. Included also are the dams of 2 of the bulls that were in our grand champion pen of 3 bulls at the 1951 National Range Bull Performance Show and Sale at Broken Bow, Nebr.

For the catalog and other information, address

MERVIN F. AEGERTER, Sale Manager
Seward, Nebraska

HENRY DIETZ & SONS, Owners
WAKEENEY, KANSAS

Attend the Mid-Kansas Shorthorn Breeders' Sale, Salina, Kan.
on April 11th

C. D. Swaffar, Auctioneer

Mike Wilson for Kansas Farmer

Today's Best Buys in Beef Cattle will be found in the Nebraska-Kansas Shorthorn and Polled Shorthorn Breeders' AUCTION

at the Superior Sales Company Pavilion

Superior, Nebr. — Tuesday, April 15, 1952

Show at 8:00 A. M. CST

Sale at 12:00 P. M.

Judge—Russell Cummings, Elizabeth, Colo.

Aucts.: Halsey and Kottmeyer

SELLING 119 HEAD—30 Shorthorn Bulls, 14 Shorthorn Females, 53 Polled Shorthorn Bulls, 22 Polled Shorthorn Females

Sixty-five of these bulls are strong yearlings and 2-year-olds. The remainder are early 1951 spring calves that will be ready for light service when you turn to pasture in May and June.

The females include 18 bred cows and heifers, most of them right close to calving, two cows with calves at foot and 18 very attractive open heifers.

Registered Shorthorns and Polled Shorthorns are today's best buy in quality per dollar value in the beef cattle business and a good beef cow herd is better than money in the bank. At the 1952 National Feeder Calf Sale at Denver in January, Shorthorn calves again won the grand championship award and all of the Shorthorn feeder calves offered outdid those of the other two major beef breeds at \$5 per cwt, average... it pays to raise Shorthorns and Polled Shorthorns, commercially or purebred.

Every animal Tb. and Bang's tested.

For catalog and other information, address—

MERVIN F. AEGERTER, Sale Manager
SEWARD, NEBRASKA

MILKING SHORTHORN ALL-HEIFER SALE Sat., Apr. 19—12:30 P.M. Hutchinson, Kansas

Fairgrounds

The heifers, 36 head, are from 3 1/2 months to 2 years old. Five are bred heifers to freshen next fall. Some are old enough to be bred, and 20 have been calved since July 1, 1952.

AN OPPORTUNITY SALE

The greatest heifer event staged in Kansas. An opportunity for 4-H Club and FFA members to buy top animals for their projects. Also an opportunity for breeders and prospective breeders to buy promising young females. Top heifers from reliable breeders.

Sale sponsored by

South Central District
Milking Shorthorn Assn.

For catalog write

C. O. HEIDEBRECHT, Sale Mgr.
Inman, Kansas
Auct.: Gus Heidebrecht, Pedlgr's: Joe Hunter

DISPERSAL SALE OF QUALITY MILKING SHORTHORNS

Owned by

J. W. McFARLAND & SON

Sterling, Kansas

Monday, April 14, 1952

1:00 P. M.

Sale will be held at the farm 2 1/2 miles east of south edge of

Sterling, Kansas

30 HEAD 30

10 Cows — 9 Open Heifers
5 Bred Heifers — 6 Bulls

Most cows now in milk or will be fresh before or soon after sale. This is a good producing herd and have been a good source of income for the McFarlands. The herd sire is a son of Riverpark Bladen 2d (VG) RM. Remember it is a complete dispersal.

For catalog and information write
C. O. HEIDEBRECHT, Sale Mgr.
Inman, Kansas
Auct.: Gus Heidebrecht, Pedlgr's: Joe Hunter

For Shorthorns Good Enough to Go Anywhere and Make Good Everywhere... COME TO THE

Mid-Kansas Shorthorn Breeders' Show and Sale

Saline County Fairgrounds

Friday, April 11, 1952
Salina, Kansas

Show at 9:00 A. M. — Sale at 12:30 P. M.

Judge: Albert Dunham—Auct.: C. D. (Pete) Swaffar

Selling 64 Bulls—25 Females



Real Herd Bull Opportunities

Including an outstanding 3-year-old son of Calrossie Supreme, out of an imported Norseman dam.

A 3-year-old son of Prince Peter Albert, 1948 Ft. Worth, Houston and Phoenix grand champion bull.

A half brother to the reserve champion steer of the 1952 Cow Palace Show at San Francisco.

A coming red 2-year-old son of the 1948 International Congress champion and \$4,000 bull, Hillcroft Victory.

A half brother to the 1951 Salina top-selling bull by the champion, Kil-doon Silver Mercury.

A full brother to Gregg Farms Commander, outstanding Tomson Bros. senior herd sire.

The first prize junior bull calf of the 1951 Hutchinson State Fair and sired by the \$4,200 Killearn Royal Max.

Calves sired by a full brother to the top-selling female at \$3,000 in the recent Curtiss Candy Company sale.

17 Bred Cows and Heifers

7 Open Heifers and 1 Cow with Calf at Foot

Featuring the get and services of International winners and sons and daughters of International grand champions.

Farmers, commercial cattle producers and purebred breeders alike, will like this especially selected lot of cattle of good ages, good bloodlines and outstanding quality... consigned by 35 of the most outstanding Shorthorn breeders in the state of Kansas. All cattle are healthy and are fully guaranteed and Tb. and Bang's tested.

For the catalog and other information, address

Mervin F. Aegerter, Sale Mgr., Seward, Nebr.

Hotel Lamer will be sale headquarters. Write John C. Sauerwein, Secretary, Chamber of Commerce, for reservations. Attend the annual banquet at 6:30 P. M., on the evening prior to the sale.

Attend the Henry Dietz & Sons Shorthorn Sale at Wakeeney, Kan., on April 12th. For the catalog and other information, write—Mervin F. Aegerter, Sale Manager, Seward, Nebr.

Beef CATTLE

FOR SALE 20 CHOICE REGISTERED

Angus Bulls

Coming 2 years old. Rugged, thick and plenty of scale. Raised together. Inspection invited.

L. E. LAFLIN, Crab Orchard, Nebr.

Dual-Purpose CATTLE

BROOKVIEW

MILKING SHORTHORN HERD

Cows classified and DHIA tested. Visitors always welcome.

LEROY HARVEY, Hill City, Kansas

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Auctioneer and Complete

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ARE ACCEPTED
IN KANSAS FARMER

Beef CATTLE

BEEF CATTLE

POLLED SHORTHORN—For Sale both Bulls and Females. Well bred, properly marked and good individuals. Bang's vaccinated. Ready to go out and do good for their new owners. Come see our herd before you buy.

HARRY BIRD & SONS, Albert, Kansas

REGISTERED SHORTHORN

For Sale. Good red bull calved March 24, 1951. A full brother was a blue ribbon winner at Kansas Free Fair in Topeka in 1951. Priced to sell.

GLENN E. LACY & SON, Miltonvale, Kansas

SHORTHORN BULLS

One 18-month-old red, extra nice. Others younger. Tomson sire.

WILL MOLYNEAUX, Palmer, Kansas

REGISTERED

SHORTHORN BULLS

All ages. — Priced to sell.

W. A. YOUNG & SON, Clearwater, Kansas

100 HEAD

Banburys' POLLED SHORTHORNS

For sale: "Supreme Hallmark" calved March 18, 1949. Dark Red, among the best in Polled Shorthorns. Guaranteed. Herd sire: Cherry Hill Hallmark 3rd in Get of Sire at the Kansas State Fair in 1950. Princess Coronita—Champion female at the Kansas State Sale in 1950. Calves vaccinated, delivered at cost in Kansas.

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

J. C. BANBURY & SONS

Plevna, Kansas

MID-KANSAS Aberdeen-Angus Breeders' Assn.



12th Annual SALE and Show

Thursday, April 10

State Fair Grounds

Hutchinson, Kan.

Show 9 A. M. — Sale 1 P. M.

47 Bulls --- 42 Females

In this offering you will find Aberdeen-Angus to fill every need—proven herd bulls, serviceable aged range bulls, purebred herd-heading bulls and herd bull prospects. This is one of the largest consignments of bulls to be made in Kansas this spring.

The female offering includes consignments from some of the outstanding herds in Kansas—popular bloodlines and fashionable families. Years of consistent constructive breeding has gone into the production of these fine cattle. They are the right kind.

CONSIGNORS:

ED AND CARL ANDERSON, Jamestown
COX ANGUS FARM, Assaria
HOWARD DILLMAN, Halstead
FICKEN ANGUS FARM, Bison
HAROLD FOUNTAIN, Penalosa
WALLACE V. FOWLES, Clay Center
HAROLD GIESSE & SON, Arnold
ALBERT GILLIG & SON, Cambridge
HENRY H. GLENN, Newton
LEE F. GORGES, Fall River
HARVEY HALL, Pierceville
C. O. HEINLY & SONS, Lyons
HETT ANGUS FARM, Peabody
HERSCHEL JANSSEN, Lorraine
K. L. KNOTT & SONS, Hesston
KOUNTZ ABERDEEN, Hutchinson
FRANCIS KRATZER, Geneseo
JOHN W. KUCHERA & SONS, Munden
MCCURRY BROS., Sedgwick
GEO. MILLER JR., Great Bend
VERNON L. MILLER, Great Bend
MOORE BROS., Gardner

HOWARD M. OPLINGER, Jewell
HARRY PEIRCE, Hutchinson
RICHARD PATTON, McPherson
RALPH POLAND, Junction City
IRL F. RAMAGE, Little River
RICHARD REIMER, Newton
FRED ROTHBERGER, Eudora
D. C. & MARIAN RUSSELL, Russell
H. F. SANKEY & SON, Sterling
FLOYD SCHRAEDER, Rush Center
FRED H. SCHULTIS & SON, Great Bend
ALBERT B. SMITH, Little River
HERMAN STEINBUCHER, Florence
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SUNNY SLOPE ANGUS FARM, Coldwater
H. E. THALMANN & SON, Haven
HAROLD F. TRUMPP, Clay Center
UNRUH BROS., Hillsboro
VERDALIN ANGUS FARM, Cottonwood Falls
WILLOW CREEK ANGUS FARM, Linn

Annual Meeting: Wednesday, April 9, 7:00 P. M.

For reservations please notify the secretary.

Catalogs sent on request, address:

PHIL STERLING, Secretary, P. O. Box 537, Canton, Kan.

MID-KANSAS ABERDEEN-ANGUS BREEDERS' ASSN.

Dick Patton, McPherson, Pres.

Lloyd Ericson, Marquette, Sale Mgr.

20 Polled Hereford Bulls



Sired by polled sons
of C. K. Cadet

Bloodlines intensely polled from 40 years of constructive breeding. 12 months to serviceable-age bulls offered. Priced reasonably.

GOERNANDT BROS.
Ames (near Concordia), Kansas

ZIMM'S

POLLED HEREFORDS

For Sale—2 Polled Hereford Bulls, 12 mos. old, sired by P.V.F. Advance Worth 8, our senior herd sire. Priced to sell at \$425 each. These are strong boned, straight legged calves.

W. R. Zimmerman—Robert L. Zimmerman
Alta Vista, Kansas

REG. POLLED HEREFORDS

Offering neat headed bull calves.

HARRY ARKELL, Milford, Kan.

150 Angus Cows and Heifers

Some extra choice and heavy springers.

60 Hereford Cows and Heifers

Cows \$200 up Heifers \$165 up

Phone 122 in evening.

HARRY BALL, Fairfield, Iowa

FOR SALE

Registered ANGUS BULLS

2 to 4 years old.

DALE E. BABCOCK, Beaver City, Nebr.

REG. ABERDEEN-ANGUS BULLS

For sale. Also a few Females.

CHESTNUT & RAILSBACK, Quinter, Kansas

Featuring these top herd sires.

CK CRUSTY 70TH

bred by CK Ranch, Brookville, half-brother to 1951 American Royal Champion.

CK ROYAL DUKE 3RD

bred by CK Ranch

P. ROYAL DUKE 7TH

bred by Parcel Herefords, Coldwater, grand champion bull at the 1948 Kansas State Sale. A number of his heifers are being retained in the herd.

Visitors are welcome to see the Get and Service of these bulls.

STRAIGHT CREEK FARMS, Whiting, Kan.

JOHN W. SPENCER, Owner

REG. HEREFORD DISPERSAL

FRANKLIN COUNTY SALE PAVILION

Ottawa, Kan., April 30, 1952

Sale at 1:00 P. M.

18 Reg. Females. 15 Reg. Bulls
10 head of grade Hereford Cows
5 and 6 years old.

Females will have calves by sale day or bred to our herd sire Domino Lad 33rd, a son of Domino Lad KTO 108th. The bulls are sons and grandsons of Domino Lad KTO 108th. Cattle may be seen previous to the sale at the farm 2 1/2 miles west of Baldwin.

MARVEY M. BOOTH, Owner

BALDWIN, KANSAS

Gene Watson, Auctioneer

OFFERING POLLED HEREFORDS



Yearling bulls and heifers sired by Advanced Choice 16th and Advance Domino 8th. All have many crosses of Polled breeding.

Write us or visit our herds.

Martin I. Shields & Sons, Lincolnville, Kan.
Rt. 1 Near highways 77 and 50 N.

REG. HEREFORD BULLS

10 to 18 months old. Sired by: OJR Jupiter Star 12th, Domino Lad KTO 111th and F. Elation 22. Top range and herd bull prospects.

WAITE BROS., Winfield, Kansas

"GOOD BREEDING PAYS"**"The Golden Cross" Production Sale of
REGISTERED ABERDEEN-ANGUS
to be held Thursday, May 1, 1952**

**8 Sons of Prince Sunbeam 118th — 50 Registered Females
50 Commercial Heifers**

108 HEAD

We are featuring the Get and Service of Prince Sunbeam 118th, Prince 29th G. A. C., a Golden Cross bull, son of the great 29th and Prince G. A. C., the Kansas state champion. Our uniform offering of well bred females, not highly fitted, will include many Golden Cross daughters of Prince Sunbeam 118th. Stop by and see this select offering. You are welcome always. Plan to be with us sale day.

The sale is to be held at the ranch, 11 miles south and 1 mile east of

Smith Center, Kansas

on Highways 9 and 281

G. W. and ADA C. CALDWELL, Harlan, Kansas

Burl Godsey, Herdsman

Hamilton James, Auctioneer

Mike Wilson for Kansas Farmer

"A KANSAS SPECIAL"**ABERDEEN-ANGUS SALE****April 21, 1952**

Sale at 1:00 P. M.

Hutchinson, Ks.

Central Sales Pavilion in
(South) Hutchinson



**58 HEAD — 28 Bred Heifers
20 Open Heifers — 10 Bulls**

Featuring the Get and Services of:

Homeplace Eileenmere 109, son of Eileenmere 487th.
Prince Sunbeam 633, son of Prince Sunbeam 29th.
Applewood Bandolier 251, grandson of Bandolier Anoka 3rd.
Bandolier 81 of Wilton, son of Bandolier 44th of Wilton.
Bandolier of Anoka 54, son of Prince Bandolier 7th.

Owners: Lloyd Ericson, Marquette; H. E. Thallmann & Son, Haven;
Wendell Davis, Norwich

For catalogs write WENDELL DAVIS, Norwich, Kansas

Auctioneer: Ray Sims

Mike Wilson for Kansas Farmer

**FOR SALE — 10 REGISTERED
Polled Hereford Females**

Seven young cows with calves at side. All cows calfhood vaccinated. Calves by P.V.F. Advance Worth 27.

EARL E. BOHLING, Florence, Kansas

**REGISTERED
POLLED HEREFORDS**

Bulls and Heifers. Nine to 15 months old. Sired by A.L.F. Beau Rollo 47th and Paul's Real Mischief 2nd.

GRAND VIEW STOCK FARM
Polled Herefords Since 1908
O. J. Shields, (Marion Co.) Lost Springs, Ks.

**SUTOR HEREFORD FARMS
SPRING SALE OF
REGISTERED HEREFORDS****April 16,
1952****85 LOTS****50 Bulls & 35 Females**

**1 Outstanding Polled
Herd Bull**



25 coming 2-year-olds this spring and fall. 25 big growthy Yearlings ready for light service. 28 Bred Heifers to calve summer and fall, bred to such good bulls as MW Mission Larry 5th, JO Duke Pride 16th, and C H Larry Domino 3rd. They will make real cows. 7 very nice Open Heifers for 4-H boy or girl or for an addition to your herd. These cattle are all range raised and well grown. They are not the show fitted kind. Some are good enough for herd bulls and any of them will make good farm and ranch bulls. If you need good practical Herefords, don't miss this sale as the number of cattle selling will assure bargains on sale day. They are all Domino, Baca, and Anxiety breeding.

Sale at the ranch 3 miles west, 3 miles south, 1 mile west of

Zurich, Rooks County, Kan.

Sale at 12 Noon

Write for catalog to

SUTOR HEREFORD RANCH, Zurich, Kansas

Freddie Chandler, Auctioneer

Mike Wilson for Kansas Farmer

150 SERVICEABLE AGE BULLS 150**Sell Wednesday, April 9**

at the Beverly Sale Pavilion

Salina, Kansas

Over 150 registered Hereford bulls are already consigned to this sale. They are the cream of the range bulls for sale in Kansas and neighboring states. Many herd bull prospects are included in the offering. Plan to attend this sale if you are in the market for range or herd bulls.

GENE SUNDGREN, Sale Manager, Salina, Kansas

Opportunity!

Plan to take advantage of this opportunity by attending the

L. L. BYRD REGISTERED

POLLED HEREFORD REDUCTION SALE**Tuesday, April 22**

12 o'clock Noon

Clinton, Missouri

The sale will be held in a tent at the farm 10 miles northwest of Clinton, Mo. Due to an automobile accident last fall it is necessary to greatly reduce the Byrd herd.

**100 Head of Registered Polled
Herefords Sell at Auction Rich in**

DOMESTIC WOODROW
DOMESTIC WOODROW AND DOMESTIC MISCHIEF BREEDING. (All double standard)
18 head of 3-year-old Cows bred in October and November, 1951, to Prince Woodrow, a grandson of Domestic Mischief.
19 head of 2-year-old Bred Heifers that will start calving in June, 1952, bred to Prince Woodrow.
23 head of Open Heifers sired by L. L. Lees's Mischief 1st, a grandson of Woodrow Mischief 3rd by Domestic Mischief.
20 head of coming 2-year-old Bulls and 23 coming yearling Bulls all sired by L. L. Lees's Mischief 1st.

This herd is rich in Domestic Woodrow and Domestic Mischief breeding. These are the same bloodlines that Halbert and Faucett featured when they made such a good showing at the recent National Polled Hereford Show and Sale at Louisville, Ky., and also for the fine average they had on their recent sale at Miller, Mo.
All females are calfhood vaccinated for Bang's disease and all cattle are tested for TB and Bang's within 30 days of date of sale.

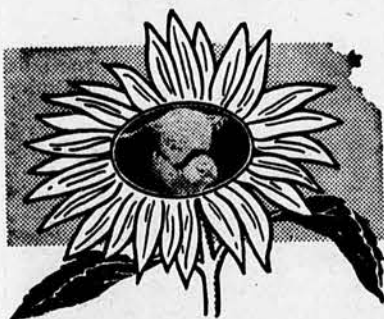
Plan now to attend this Great Herd Reduction Sale of 100 Head.
Write today for catalog, hotel reservations and further information to—

DONALD J. BOWMAN, Sales Manager, Hamilton, Mo.

Aucts.: Jewett Falkerson and Freddie Chandler

Bert Powell for this publication

KANSAS SPRING HEREFORD SALE



Horton, Kansas

In connection with
"BETTER BEEF DAY"

6:30 P. M., Saturday

April 12, 1952

25 BULLS — 20 FEMALES

A feature of the auction will be the selling of heifers in pen lots.

HORTON SALE ENTRIES

Name	Address	Bulls	Females
DON BREEDING, Herkimer		5	0
VALENTIN DUENSING, Herkimer		5	0
ALLEN ENGLER, Topeka		3	11
ALICE & CARL FIGGE, Topeka		0	2
FRANK J. GEORGE & SON, Lebo		1	0
JACKSON GEORGE, Lebo		1	0
O. C. HICKS, Garden City		2	1
JOE LEWELLEN, El Dorado		0	3
F. P. MCCOLLOUGH, Rossville		1	0
PREMIER HEREFORD FARMS, Wolcott		2	0
HAROLD STUMP, Blue Rapids		2	0
AL J. SCHUETZ, Mercier		2	0
STELBAR RANCH, Douglass		1	1
T. L. WELSH, Abilene		1	2

For catalog, please address

KANSAS HEREFORD ASSOCIATION

State Fair Grounds, Hutchinson, Kan.

Gene Watson, Auctioneer

Mike Wilson for Kansas Farmer

See our consignment of Registered Herefords at the

KANSAS HEREFORD ASSOCIATION SALE

at Horton, Kansas

April 12, 1952



11 Heifers and 3 Bulls

One heifer is a daughter of Beau Perfect 246th. 10 good horned heifers carrying Polled blood. This is a nice set of heifers that are well bred and good individuals. They are foundation herd material. 3 Horned Bulls, well grown, well bred and ready for heavy service. Look us up at Horton. 4-E Ranch.

ALLEN ENGLER & SONS, Topeka, Kansas

"SUPER SERVICE SALE" OF REGISTERED HEREFORDS

Featuring the service of PCR Super Donald 20th

Thurs., April 17, 1952 --- Moundridge, Kan.

at 12:30 p. m. at the farm

55 HEAD — 25 Bulls and 30 Females

30 head selling are either half, three quarter or full brothers or sisters to the champion bulls at the 1951 Flint Hills Association Show and Sale and the South Central Kansas Show and Sale. Several heifers will be carrying the service of JF Proud Mixer 27th. Directional signs on U. S. 81 and U. S. 50 S. We invite you to be with us sale day. Lunch stand at the farm.



Owners:

Phil H. Adrian, Moundridge and Dr. John W. Hertzler, Newton
Auctioneer: Freddie Chandler Mike Wilson for Kansas Farmer

JANSONIUS SALE Of Registered Hereford Cattle April 15, 1952 Phillipsburg, Kan.

Sale starts at 1:00 P. M.



WHR Royal Aladdin 34th is sired by WHR Flashy Aladdin.

SELLING 60 HEAD

25 Bulls—20 Bred Heifers—15 Open Heifers

All of the cattle are sired by one of the following good sires: Royal Lamplighter, HC Double Mixer and CK Royal Duke 38th. The heifers are bred to CK Royal Duke 38 and WHR Royal Aladdin 34th. This herd has been built very strongly of Anxiety breeding. WHR Royal Aladdin 34th was recently selected from the Wyoming Hereford Ranch herd to use on our choicely bred females. You will see his photo in this ad.

For catalog and other information contact

JANSONIUS BROS., Prairie View, Kan.

Auctioneer: Freddie Chandler

Mike Wilson for Kansas Farmer

KANSAS STATE PUREBRED RAM SALES

Kansas City Stock Yards

2nd Annual Sale

Kansas City, Missouri

(In conjunction with Kansas City Lamb and Wool School.)

May 1, 1952 — 1 P. M.

60 Selected and Approved Purebred Rams Offered at Auction

6TH ANNUAL PUREBRED RAM SALE AND SHOW

State Fair Grounds

Hutchinson, Kansas, Monday, May 12

Judging of Rams 3 P. M. — Auction Sale 7 P. M.

140 Purebred Rams—selected from the best flocks in Kansas. Every Ram offered for sale carefully selected and approved by a committee from: Kansas State College and the Breeders' Association.

**Hampshires—Suffolks—Shropshires—Southdowns—Dorsets
Corriedales**

Write for catalogs of these two sales sponsored by

KANSAS PUREBRED SHEEP BREEDERS ASSOCIATION

T. Donald Bell, Sec.-Treas., Kansas State College, Manhattan, Kan.



THE TANK TRUCK



Pitcher Marcum and his new Holland hay baler. Like all the equipment on the Marcum farm, this baler will be lubricated with Conoco Products.



Before turning to farming, John Marcum was a big league pitcher, with a record of 18 wins, 6 losses in one season with the Athletics!

Still in There—Pitching!

JOHN MARCUM is still pitching... but today he's pitching hay, not baseball! For six years, from 1933 to 1939, John was a pitcher in the American League. He was with the Philadelphia Athletics for three years... spent several seasons hurling for the Boston Red Sox... and also played with the St. Louis Browns and the Chicago White Sox.

When he retired from baseball, he returned to his home state of Kentucky, and turned to farming. He now owns 200 acres near Eminence and raises tobacco, corn, wheat, and orchard grass... it's this hay he now pitches, to feed his Holstein and Jersey cows. He also raises sheep and hogs.

We don't know what Mr. Marcum's batting average was in the big leagues, but we think he really made a "home run" when he picked the fuels and lubricants for his farm equipment.

"I have been using Conoco Gasoline and

Conoco Super Motor Oil for several years in all of my equipment," he writes. "I've had excellent results!"

"I previously used other products, but I find that the best results have been secured with Conoco."

"Whenever I hear of any of my friends having lubrication troubles, I immediately

recommend they try Conoco Super Motor Oil, because this oil holds up better in farm machinery!"

How's your batting average for farm machinery maintenance? Are you sure you are using the oil that "stands up better in farm machinery?" Why not call Your Conoco Man, today, for a drum of Conoco Super Motor Oil, the great modern wear fighter!

Cherry Crunch



... by Lora Logan
Unionville, Missouri

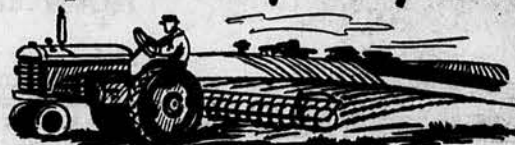
40 graham crackers, rolled fine 1 quart cherries
¾ cup sugar 1½ cups sugar
1 teaspoon cinnamon 5 tablespoons cornstarch
1½ sticks butter or margarine 5 egg whites, stiffly beaten
1 cup sugar

Melt butter or margarine, mix with cracker crumbs, sugar, and cinnamon. Pat ¾ of mixture in bottom and sides of large buttered pan. Mix cornstarch, 1½ cups sugar together dry, add to cherries. Cook until thickened and clear, stirring constantly. Pour over crumb mixture in pan. Beat egg whites till stiff, add one cup sugar. Spread this mixture over cherries. Cover with remaining crumb mixture, bake 35 minutes at 275°. Cut in large squares. Serve plain, or with whipped or ice cream.

SHEARS FOR RECIPES!

Send your favorite recipes to Mrs. Annie Lee Wheeler, Dep't E, Conoco Cafeteria, Ponca City, Okla. A \$7.50 pair of Wiss Pinking Shears awarded for every recipe published with your name. All recipes become property of Continental Oil Company.

Why a "Heavy Duty" Oil?

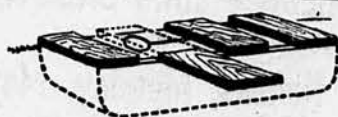


When your tractor is plowing or doing other heavy duty work, the engine operates at very high temperatures, oil is rapidly oxidized, and gum or lacquer is formed. So you need the "cleaning" action of a "heavy duty" detergent oil to keep the lacquer from being deposited on rings and pistons. On the other hand, even when your tractor is doing light work like powering a hammermill, you still need a heavy duty oil. And here's why: Because your engine is running cool, moisture condenses and, because gasoline is not completely burned up, a gummy residue forms inside your engine. The heavy duty detergents in Conoco HD Oil and Conoco Super Motor Oil disperse moisture, stop the accumulation of sludge, and prevent ring sticking. Remember—they're both Heavy Duty—will keep your truck, tractor, and other engines new and clean.

"50,000 Miles—No Wear!"

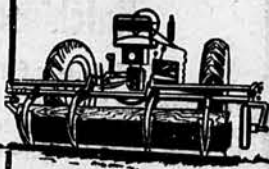
After a punishing 50,000-mile road test, with proper crankcase drains and regular care, engines lubricated with Conoco Super Motor Oil showed no wear of any consequence... in fact, an average of less than one one-thousandth of an inch on cylinders and crankshafts. AND gasoline mileage for the last 5,000 miles was actually 99.77% as good as for the first 5,000! This test proved that Conoco Super, with OIL-PLATING, can make your cars and trucks last longer, perform better, use less gasoline and oil.

Low Cost Trough



Laurence Piatt, McClave, Colorado, recommends this water trough that hogs can't root over or get in. Dig hole size and shape desired. Connect pipe, pour concrete without forms. Trowel into dish-shaped trough, place bolts for guards, finish with rich mix. When set, connect float, bolt on guards and spacers.

Moves Dirt Easily



Make dirt mover and land leveler by bolting 8' grader blade to the foot-pieces of a 4-row tool bar as shown, suggests Werner Niehues, R. 1, Rowena, Texas. Close space above blade with 1½" x 12" sheet steel, bending forward on ends to hold more dirt. Lumber may also be used for closing.

SAWS FOR IDEAS!

Send your original ideas to The Tank Truck, Dep't E, Continental Oil Company, Ponca City, Okla., and get a genuine \$10.25 D-15 Henry Disston Hand Saw for every idea that's printed.



CONOCO
YOUR
CONOCO MAN

CONTINENTAL OIL COMPANY