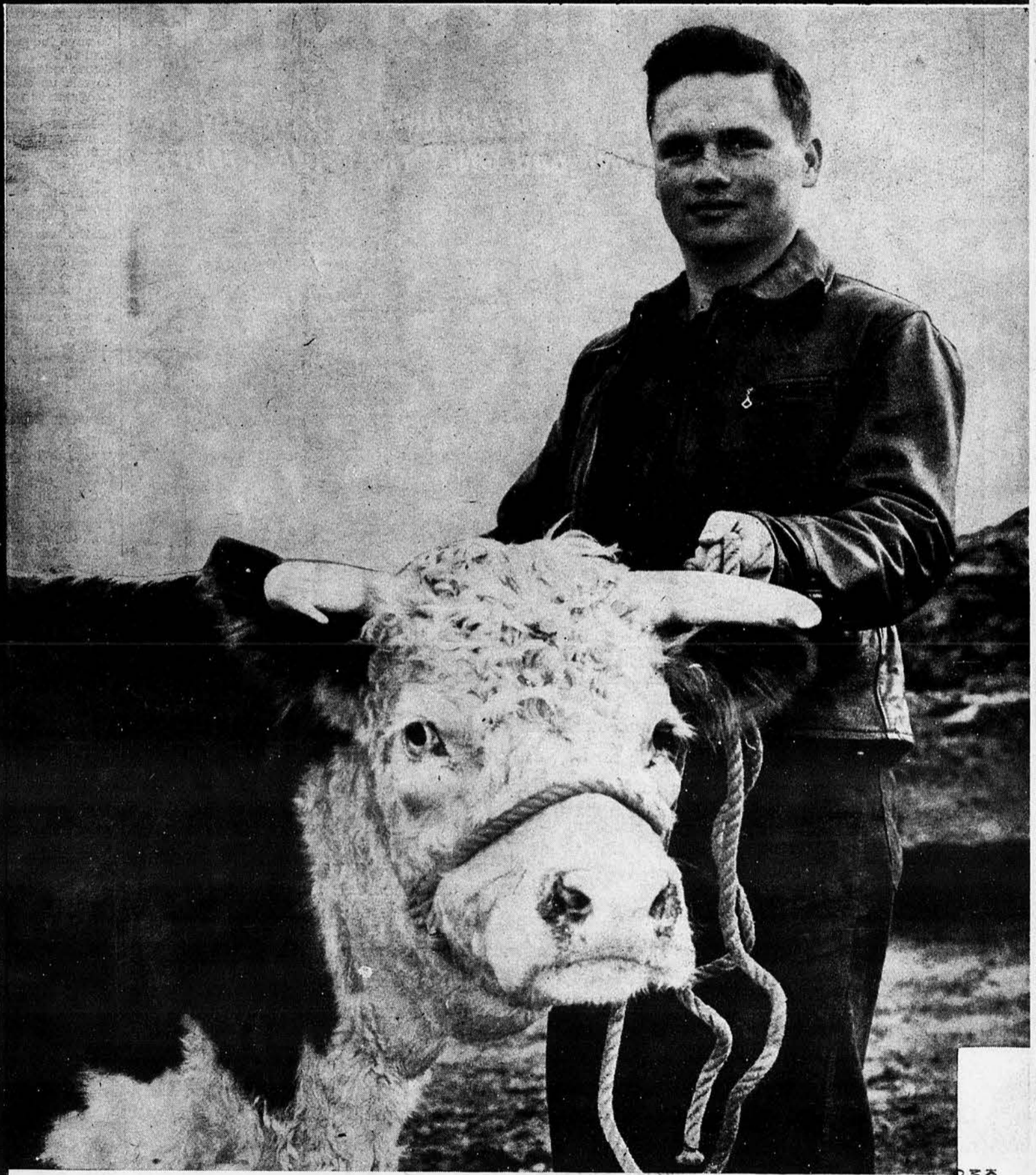


Kansas Farmer



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Dams Will Be Built!

IF YOU have been hoping some Federal agency would come forth with a flood-control program that would eliminate the proposed large dams and reservoirs being planned by Army engineers, you can forget about it.

At a meeting held in Topeka April 25, farmers heard as much when they listened to A. E. McClymonds, Lincoln, Nebr., regional director of the Soil Conservation Service, outline the new program being planned by his department.

"Our job is not to stop floods. In fact, we don't think we can stop them with soil conservation methods alone," says Mr. McClymonds. "Our first concern is to save the good topsoil now on farms, and to keep it in place so it will produce food instead of going downstream to silt up flood-control projects. Our program is to supplement that of the Army engineers, not to replace it."

Mr. McClymonds was talking about a new soil conservation program that will be applied to watershed basins if Congress approves and allocates the money. Soil Conservation surveys have been made on all of the Missouri River basin and in the Nesho-Grand basin, Mr. McClymonds reported. The idea of the watershed type conservation program will be to hold water wherever possible, near where it falls, and to do everything possible to slow down the runoff from fields, roadsides, and other areas where such runoff complicates matters farther down.

The Topeka meeting was under direction of the Kansas Land and Water Conservancy Association, with Lamar Phillips, of Ottawa, acting as the chairman.

Weevil Battle

Weevil control in wheat will be the theme of 5 more meetings to be held thruout Kansas during May. This is a result of the newly-formed Kansas Wheat Quality Council. Commenting on the program, Cliff Skiver, secretary-treasurer for the council, said the council is striving to improve quality of Kansas wheat, and one of the first goals is to minimize insect infestation of stored wheat.

Grain storage losses in Kansas run as high as 8 million dollars a year, and wheat is discounted on the market if it has been weevil infested. States north of Kansas have little trouble from weevil due to their different climate.

The 5 meetings will be held at Topeka, May 8; Iola, May 9; Hutchinson, May 10; Garden City, May 11, and Beloit, May 12.

Needs Nitrogen

Nitrogen fertilizer for corn production is needed on badly-eroded or severely-depleted soils in Kansas, states F. W. Smith, Kansas State College agronomist. Usually, he says, the rate of nitrogen should be about 40 pounds an acre. This amount is contained in 120 pounds of ammonium nitrate fertilizer.

Senator Capper on Radio

Every Sunday afternoon at 12:30 o'clock Senator Arthur Capper discusses national questions over WIBW radio station.

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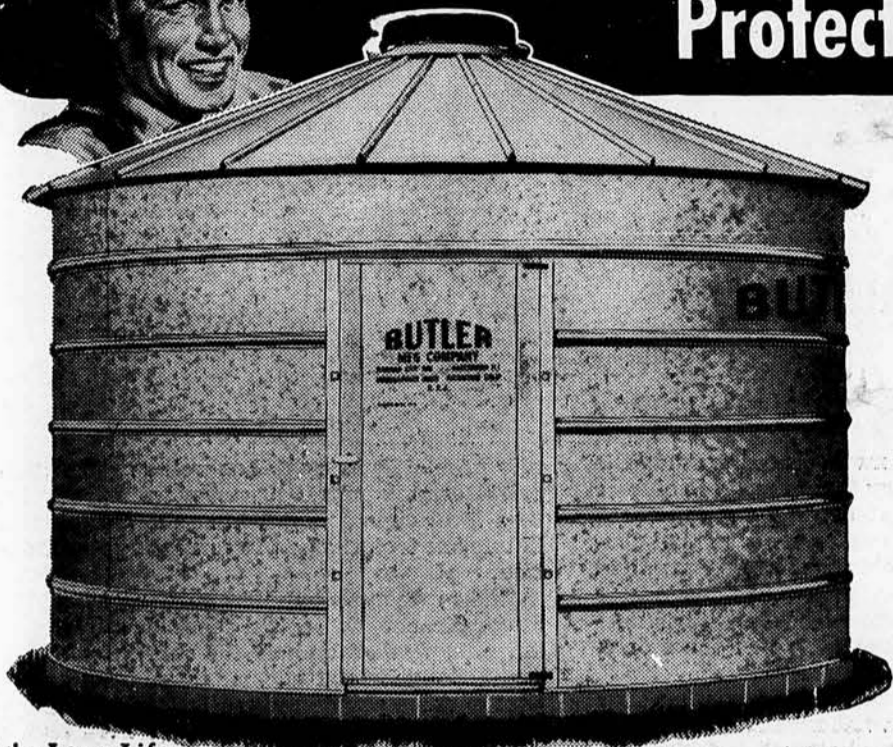
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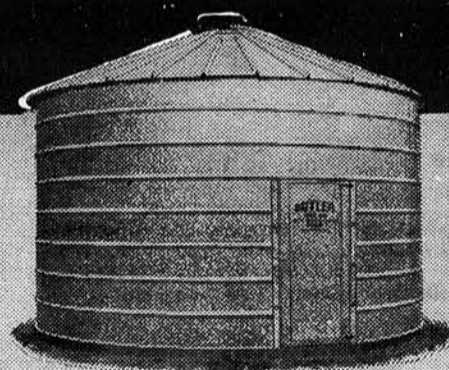
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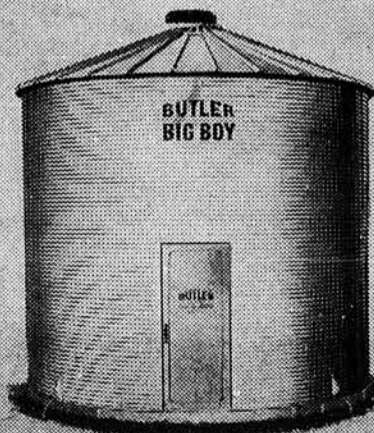
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That's The Way They Talk In The Baldwin Community

By Dick Mann

CITY limits no longer separate interests of town and country people. That is the conclusion reached by Professor Paul Kochan, of Baker University, Baldwin, who has directed his rural-sociology students in a series of practical community surveys since 1943.

"We must quit thinking of town and country as 2 separate things and think in terms of the new Town-Country community," says Professor Kochan. "Our surveys of the Baldwin community since 1943 have shown there has been a gradual breakdown of the barriers that once existed between town and country people and that Baldwin, like all small towns, merely is the center of interest for people in a much larger area. Once all the people in such an area understand this they can begin to work together for the common interests of all, instead of pulling and tugging against each other," Professor Kochan adds.

Thru his studies, Professor Kochan has worked out a system with which any community can look itself over, determine its area of influence, and then act accordingly.

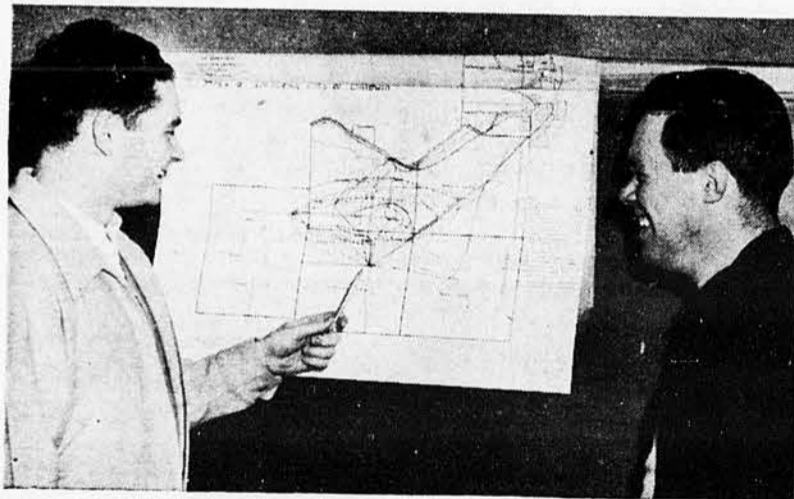
Here is the general method used to study the Baldwin Town-Country Community. Professor Kochan assigned his students to map the area of influence of each store, each doctor and dentist, the schools and churches in Baldwin, and then put these all together to make one master map. The work was done by personally interviewing town and rural people in the stores, on the streets, finding out where they lived, what interests they had in Baldwin, what they thought of the town, what improvements were needed to serve farmers better.

"Our first survey in 1943," says Professor Kochan, "showed that Baldwin already was a Town-Country community, but the people didn't know it. While they had a lot of common interests they were antagonistic toward one another. Farmers thought business men in Baldwin were not interested in them and that students at Baker University did not like farmers. Business men were antagonistic toward teachers at the university and thought the university folks were trying to run the town. In other words, our survey showed the commu-

nity problem was mental as well as geographical." Results of the 1943 survey were presented to a local civic group, which showed interest but no one took the lead in correcting the situation.

"When we made our 1947 survey," says Professor Kochan, "we found the town's sphere of influence was practically the same, but that a great change in attitude had taken place on the part of farm people toward Baldwin. Farmers now felt that Baldwin merchants were trying to meet their needs and these efforts were appreciated. Merchants had become very conscious of farm trade and farm problems. A lot of new young merchants had taken over many of the businesses right after the war.

"Part of the improvement was due to organization by the merchants of a Commercial Club, which had been sponsoring a series of programs and projects to interest folks in the entire community. One of the most popular was a street dance held every 2 weeks during summer. These dances gave everybody—town and rural folks—a (Continued on Page 25)



TOM BRANCH, left, Ft. Scott, and Jim Pope, Minneapolis, Minn., look over an "Area of Influence" map they prepared as a sociology project to see what is happening to the rural community.

★ ★ ★

We asked Professor Paul Kochan to prepare some special bulletins explaining how to make a community survey and how to organize a Town-Country Community Council.

These will be sent to you free of charge if you will write Survey Editor, Kansas Farmer, Topeka, and enclose a stamped envelope containing your return address.



COMMUNITY SURVEYS originated by Prof. Paul Kochan, right, of Baker University, Baldwin, are helping break down town and country barriers. Frances Mitchell, of Humboldt, a student of Professor Kochan, has done much of the work in summarizing survey findings.



HERVE HOSKINSON, right, Douglas county farmer, is president, and Jim Leitnaker, Baldwin editor, is secretary of a newly organized Town-Country Community Council resulting from Professor Kochan's surveys.

No. 7 Reviewing farming progress and looking into the future

Ups - and - Downs With Legumes

By H. H. LAUDE, Agronomist
Kansas State College

ALFAFA and red clover were the chief legumes grown in Kansas 50 years ago. Since then, sweet clover, soybeans and lespedeza have become important. In 1900, legumes were grown on about 1/2-million acres. Now acreage is 4 to 5 times as great, valuable for hay, pasture, grain, and soil improvement.

Search for new legumes and improvement of those now being grown will aid Kansas agriculture in the future.

Alfalfa Up to a Million

Alfalfa was growing on 276,000 acres in Kansas in 1900. More was planted than was plowed up during the first part of the century, so by 1915 there were 1,359,000 acres. For 20 years thereafter, acreage of alfalfa declined until in 1938 and 1939 it reached the low point of less than 400,000 acres. Since then more again has been planted, and now acreage has exceeded one million, approaching the maximum reached 35 years ago.

Some reasons for changes in trends of alfalfa production in Kansas are apparent, and in some cases point out important things to be observed in the future.

During the early part of the century, alfalfa was yet in its first era of production when rapid expansion should be expected in response to the great success of the crop in most localities. Troubles, such as commonly appear when a crop has been grown extensively for a considerable number of years in a locality, had not caught up with it.

Urgent need for food grains, particularly wheat, during and shortly after World War I, probably encouraged plowing up of alfalfa and discouraged planting new stands. It is well recognized that emergencies must be met. However, there probably was not full appreciation of how long it would take and how difficult it would be to recoup losses entailed in meeting that emergency.

Buffalo Solved Wilt Problem

In the 1920's alfalfa in Kansas was threatened by a wilt disease, first in the east then farther west. Farmers were helpless to prevent their crops from dying, often in 2 to 4 years after stands were established. Scientists could only identify the trouble—they knew no remedy or effective control. By 1927, Kansas State College had made the discovery on which the problem was to be solved. It was found some plants were resistant to the disease and an occasional plant was highly-resistant. Among those highly-resistant plants, a few had characteristics necessary to make them successful in fields in Kansas. Buffalo is the name of the variety developed by Kansas State College. It has high resistance to wilt and possesses other desired characteristics equal to those of Kansas Common, which, for many years, had been the best variety. At the Nebraska Experiment Station, Ranger was developed to meet the wilt problem there.

It was found that high resistance to wilt was not maintained in seed if the pollen came from plants that were susceptible to the wilt. It therefore has been necessary to maintain foundation and breeders fields of Buffalo alfalfa which are isolated long distances from other alfalfa.

Buffalo alfalfa, which is the final result of many years of intensive work, is a great contribution of research during the last 25 years, the benefits of which will become more important as planting the variety is extended in the future.

Non-hardy Seed Risky

Importation into Kansas of seed of non-hardy varieties of alfalfa was important in the decline of acreage. It has been demonstrated that alfalfa grown for many years in a mild climate likely will not be hardy enough for areas with more rigorous climatic conditions. Before this fact was fully realized by

farmers, many planted non-hardy seed which generally was fine-looking seed. Often those stands winterkilled the first year or within a few years. Greater care in getting adapted Kansas-grown seed has been a factor in the recent increase in acreage. In the future farmers generally will insist upon adapted seed because of the danger of failure when seed of unknown quality is planted.

Leader in Seed Production

Kansas for many years has been the leading alfalfa seed-producing state. A large part of the seed crop is shipped east, some of it as far as the Atlantic coast states, where it is planted for hay, silage, meal and pasture. Conditions thruout that large area are not generally suitable for the production of seed, consequently growers depend upon Kansas seed for planting their fields.

Investigators at Kansas State College take this factor into consideration in developing improved varieties. All new strains that appear promising in Kansas are first tested at many experiment stations east of Kansas to determine that they are well-adapted there also, and will produce good yields of forage thruout that area.

Future Looks Bright

Alfalfa production has increased thruout eastern states and will probably continue to do so for many years. Buffalo alfalfa is highly prized thruout that area because of its resistance to wilt, and other good qualities. With Buffalo coming into extensive production in Kansas, and with the prospect that Kansas farmers will be able to produce more seed per acre by observing some recent discoveries, the future is bright for alfalfa-seed production in Kansas.

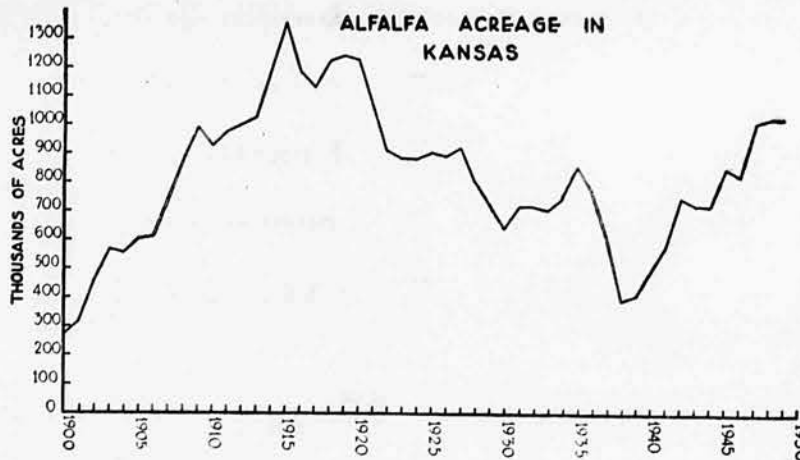
Certain Insects Hinder

Many seed crops of alfalfa have been disappointing. Recent investigations at Kansas State College indicate seed production can be made much more dependable and that higher yields can be obtained. A study revealed certain insects puncture the flower buds, causing damage that prevents seed from forming. This damage can be largely prevented by spraying with certain insecticides, following specific direction published by the Kansas Agricultural Experiment Station.

As a result, adequate supplies of alfalfa seed should be available more regularly in the future, and fewer crops of hay will need to be sacrificed to get the required amount of seed.

Bees Help Seed

Alfalfa-seed production depends much on bees, both honeybees and wild solitary bees, which trip and pollinate the blossoms. Alfalfa flowers contain excellent nectar for honey. Here, then, is an opportunity for the alfalfa-seed grower and the beekeeper to co-operate to their mutual benefit. For good crops of seed cannot be produced without bees, and bees cannot make honey without nectar-bearing flowers.



ALFALFA IN KANSAS increased rapidly during the first 15 years of this century from less than 300,000 to more than 1,300,000 acres. From 1915 to 1938 the trend was downward due to various causes, some of which are discussed in this story. Research at Kansas State College helped explain and find reasons for the decline. As a result, alfalfa can now be grown more successfully and farmers are again expanding their acreage of this most valuable legume.



SOYBEANS were tested by Kansas State College before 1900. About 1915 better varieties were brought over from the Orient. Adapted to the corn area, they make an excellent summer crop.

Adoption by farmers of improved cultural practices has made alfalfa production more successful, and has stimulated more extensive planting of the crop in recent years. Fitting the cutting schedule to growth requirements of the plant probably has been the outstanding change in cultural practices. Alfalfa plants must have a fair growth of green leaves during most of September, October and November if plants are to be ready for cold weather, and able to survive winter and make a good, vigorous growth in spring. The practice of not cutting alfalfa after about the middle of September is becoming general, and consequently stands remain better for a longer time and yield is higher.

Soybeans Have Many Uses

Soybeans had been tested by Kansas State College before 1900. Best varieties then available were small; they ripened early and shattered badly, and did not become important.

About 1915, varieties of soybeans began coming into this country thru efforts of the U. S. Department of Agriculture from the Orient, particularly Manchuria, where many types have long been grown. Some proved good and fairly well-adapted in Eastern Kansas. Superior strains were selected and later, in some states, cross-breeding was undertaken.

The soybean crop is of value for hay,

pasture, silage and grain, all of which have a relatively high content of protein. Oil of the seed is of value for many industrial purposes and, after extraction, cake or meal which remains is an excellent protein supplement for feeding livestock, and can be used in plastics.

In general, soybeans are adapted in the area where corn is grown successfully. Attempt has been made to find varieties suited for planting in Central and Western Kansas, without success. Improvement of varieties and further development in industrial utilization may stimulate more-extensive planting of soybeans in Kansas and extend the area of production farther west.

Lespedeza Fits in Well

Long ago, a small-growing variety of annual lespedeza appeared along roadsides and in overgrazed spots in pastures in Southeastern Kansas. In the early part of this century, it had increased to the point of providing considerable summer pasturage on many farms. A larger-growing strain of the same type was introduced by the U. S. Department of Agriculture from Korea in 1919. Korean lespedeza was planted extensively in Eastern Kansas, and has become established as a permanent part of the vegetation of the region.

Korean lespedeza starts growth in May or June and provides excellent grazing from about the first of July until frost. It grows in cultivated fields as well as in permanent pastures. It can be seeded in oats, wheat, or flax and will provide grazing after those crops are harvested. Seed is produced before frost in the fall and is shattered on the ground ready to germinate in spring. Preparation of land and planting oats usually do not prevent germination of lespedeza later in the spring. Lespedeza seed that is covered deep when land is plowed for a row crop such as corn or sorghum, has been observed to remain viable and to germinate and produce a stand when it was again turned to the surface.

Sweet Clover Highly Valuable

Altho sweet clover was considered a weed and of no value in agriculture at the beginning of the century, it is now recognized to be highly valuable, especially for pasture and soil improvement.

(Continued on Page 26)

Highly Honored

Dear Editor: I would like to express my appreciation and gratitude to Senator Capper, KANSAS FARMER, and you for awarding me the Capper Scholarship which I am most happy to accept. I think it is wonderful you choose to help reward 4-H'ers for their efforts in this way, because almost every member plans to attend Kansas State College to further his career. I feel highly honored to have been considered for this award, and I am planning to enroll at Kansas State College this fall as a junior with agriculture as my major. I will have completed 2 years of school at Chanute Junior College.

I am an old friend of KANSAS' FARMER because of its friendly attitude toward 4-H work, and its up-to-date reporting of 4-H news.

—Harlan Gene Copeland, Erie, Kan.

Note: Kansas 4-H'ers and all farm youth may always depend on KANSAS FARMER as a staunch friend working diligently for your best interests.

—Raymond H. Gilkeson, Editor.

Farm Matters

AS I SEE THEM

SOME 2 months ago I quoted a few paragraphs from a talk delivered at Des Moines, Ia., before the 12th annual National Farm Institute, by Chester C. Davis. Mr. Davis is a Democrat. He headed the Agricultural Adjustment Administration programs in the Thirties. He now is president of the Federal Reserve Bank at St. Louis. The other day I sent and got a copy of his complete address.

One thing that interested me particularly was that Mr. Davis, a Democrat, holding highly-important appointments under Presidents Roosevelt and Truman, came out flatly in favor of the Agricultural Act of 1948.

Now, the Agricultural Act of 1948 was passed by the Republican 80th Congress. The long-range provisions of the Act were written by the Senate Committee on Agriculture and Forestry, while I was chairman of that committee. The subcommittee which held hearings and drafted the original bill, worked over slightly by the whole committee, was headed by Sen. George D. Aiken, of Vermont.

It is even more interesting to note that while Chester Davis, a Democrat, came out strongly in support of the 1948 Act, many Republican members of the 80th Congress—well, they actually "ran for cover" when President Truman joined with the National Farmers Union in denouncing the Act.

Here is one statement made by Chester Davis, that I believe is worth carrying on to you readers of Kansas Farmer:

"I am convinced," Mr. Davis said, "that if we had followed the lessons of the last 15 years—let's make it 25 years—we would have stuck to the long-range provisions of the Agricultural Act of 1948. It impressed me as an attempt to apply experience to present-day problems. No doubt changes were needed, but in the main those long-range provisions would have relieved the government of the impossible task of maintaining wartime prices in the face of mounting surpluses. They would have introduced administrative flexibility where rigidities now prevail."

I also find myself in agreement that the shifting of emphasis in the national farm programs from adjustment, (of supply and demand between farm products and industrial products,) to price-fixing by law, is leading us down the wrong track.

I, like Chester Davis, am growing more and more disturbed by the growing dependence on government for direction and aid, and its twin black angel of destruction, fiscal irresponsibility inside and outside of government. That dependence on government direction and financial aid has come to extend thruout all segments of our American life—labor, agriculture, industry, finance, commerce, business generally—and to more and more individuals.

Take three fiscal years—fiscal 1949, which ended June 30, 1949; fiscal 1950, the present year; and the fiscal year ahead, from July 1 next to June 30, 1951.

Fiscal year 1949 was one of high dollar income and high employment. The Federal government closed the year one billion 800 million

dollars in the red. The Federal deficit this year may be closer to 7 than to 6 billion dollars. And estimates for fiscal year 1951 reach into a similar deficit bracket.

Mr. Davis, who is president of the Federal Reserve Bank of St. Louis, but with a life-long agricultural background, calls attention to this prospect, which evidently disturbs him greatly:

"We are nearing the time when billions in savings bonds will mature, with no assurance that holders will reinvest their savings in government bonds. I doubt if they will if they once get the idea that creeping inflation, continued whittling away of the dollar's buying power, are ahead of us. If the public does not take the bonds, the alternative will be more deficit financing at banks, more money not matched by production."

I find myself in agreement also with Mr. Davis that it will be nothing less than national disaster if the farmers join the other groups who are saying in effect: "We can have prosperity, regardless of everything else, if the government will back us and put up the money."

And, also, with the view that it will be disastrous if the full weight of farm opinion is not clearly and continuously used to promote, and back, policies by labor and industry that will yield the highest sustainable level of non-agricultural production. And I mean production of goods and services, not the issuance of more and more printing-press money. Printing-press money is not wealth. It is just evidence of debt and, finally, insolvency.

Too Much Wheat?

I KNOW every Kansas farmer is interested in wheat. Every Kansan should be. What it does this year still isn't settled. The crop has met up with some difficulties. It usually does. But there will be wheat—good wheat. The best in the world. It is a mighty hardy crop or Kansas wouldn't be the leading wheat state.

But Kansas has many possibilities other than wheat. We should make more of them, I think. Not only by way of publicizing them to the rest of the country. But we should be sure to study them for wider use by more people. In other words, we don't need to have "all our eggs in the wheat basket."

If my information is correct, and I think it is, Kansas and the U. S. have been growing more wheat—starting with the war period—than we can expect to sell at a profit in the years ahead. The combined market in the U. S. and sales abroad doesn't seem to demand as much wheat as we have been producing, or can produce. The Department of Agriculture reports we eventually must reduce wheat production by 20 million acres to bring supplies of this grain in line with food demand.

With these figures in mind we turn to thinking of exactly how Kansas agriculture can make better use of the many other possibilities this state offers. In this connection I would like to call your attention to a report made by R. J.

Doll, of Kansas State College, in The Agricultural Situation, published by the Department of Agriculture. He and others made a study on Western Kansas farms on using wheat as a live-stock feed.

Probably many of you have had some experience along this line. I find heaviest wheat feeding usually has been done in depression years when wheat prices dropped near those of corn. This report states that quantities fed in those years ranged from about 290 million bushels to a record of nearly 500 million bushels for the whole country. Mr. Doll reports that pound for pound, wheat is as good or better than corn for fattening cattle, hogs and poultry, but not quite as good for fattening lambs. Compared with oats, barley and sorghum grains, wheat is generally superior as a feed. In most cases, Mr. Doll says, best results with wheat are obtained when it is ground and mixed with other feeds.

"From the standpoint of the farm operator," Mr. Doll states, "production and use of wheat for feed is one of the best alternatives in Western Kansas when wheat surpluses pile up and wheat prices tend to sink to the level of feed grains. In most of the area studied, wheat as grain produces more feed value per acre than other feed grains. In addition, wheat is easier to store than sorghums, its costs of production are lower and it has considerable value both as winter pasture and a winter cover for the land."

I mention wheat feeding to livestock, because in effect this would be reducing acreage of wheat for human consumption. And it looks as if it might help continue to make satisfactory use of land and equipment, and add some measure of safety to a livestock project. Of course, I know fallowing land is a good practice, up to a point. Where a man has enough land in fallow he needs to grow something, and wheat for feed might be part of the answer. Another part would be growing sorghums for feed and putting more land back to grass, all based on getting more livestock into the wheat country. It seems to me the right balance between wheat, feed, grass and livestock would mean a more substantial kind of farming.

Fortunately we have Kansas State College, and its several branch experiment stations strategically located, to figure out the best crops and livestock combinations for every section of Kansas. The investment we make in research is returned to us many fold in the proved facts this great institution finds for Kansas.

I hope every farmer will make full use of the help offered by the college and its extension division.

If I am correct, and I feel I am, every county in Kansas can turn to livestock from too much wheat. Every county now has considerable livestock. But we need more in the wheat country to take advantage of our many opportunities, and for more safety in farming.

Arthur Capper
Topeka.

Farmers Would Pay for Price Support

By CLIF STRATTON

Kansas Farmer's National Affairs Editor

WAYNE DARROW (Washington Farm Letter) calls attention to what he says is a "major move in the making to base farm price supports on price insurance. Farmers would pay bulk of the cost of support thru premiums. Participation would be voluntary."

Darrow also reports the insurance idea has been considered by both Secretary of Agriculture Brannan and Congressman Harold D. Cooley (N.C.),

chairman of the House Agriculture Committee.

Secretary Brannan has the insurance premiums program as an adjunct of the Brannan Plan that is evoking so much controversy. Chairman Cooley advanced it primarily as a means of price support for perishables; main-

tains the present support program for perishables is becoming recognized as impossible to continue successfully.

Tentative studies being made by a Department committee are based on the possibility of charging co-operating farmers 5 per cent of gross receipts from price-supported commodities. The

premiums might be graduated—say from one per cent on gross of \$1,000, up to 6 per cent on \$10,000 or more gross receipts.

Only exploratory hearings are being contemplated by the House Agriculture Committee at this session of Congress, but the plan may get serious consideration in the 82nd Congress, whether or not the Administration is able to sell the Brannan Plan to farm-

(Continued on Page 22)

Coming, May 20 . . .

A great pasture story is coming to you in the May 20 issue of KANSAS FARMER. Written by a top authority, it will tell you of better grasses to come, what so far is known about using fertilizers on pastures, it will trace pasture use (and abuse) from the time trail herds stopped.

You will find answers in this article to some of your most pressing grazing problems. It will bring you up-to-date on the many striking changes in pastures, kinds of grasses, management for best results. It will point out what to expect in the future.

Keep this article for frequent reading. It is one more in the valuable special series reviewing 50 years of progress and looking into the future KANSAS FARMER is bringing you. Watch for it May 20.

The Cover Story

Karl Rau Is Typical of Young Farm Leaders

THERE just isn't any way to stop young farmers like Karl Rau, of Clay county. At 18, he not only is an outstanding member of the Clay Center FFA chapter and of the Industry 4-H Club, but is well on his way toward a successful career in farming.

We want to tell you something about Karl because he is typical of the young farm leaders who this week completed their 22nd annual program of the Kansas Association of the Future Farmers of America. Their program was held on the campus of Kansas State College, Manhattan.

Karl's main livestock project is 14 head of registered Hereford cows and heifers, which will be foundation stock for his herd when he starts farming for himself. His herd sire is Crusier D 1st, a half-brother of the champion bull at the 1950 Western Livestock Show, at Denver. In addition to his herd of adult Herefords, Karl also has 2 yearling heifers and 8 younger calves.

As a secondary livestock project, he has 11 registered Black Poland China sows and gilts. He got his foundation stock from Paul Williams, of Clay Center, and is using a registered boar owned by Mr. Williams. Due to his livestock projects, Karl has become a member of the Clay County Purebred Hog Breeders' Association and a joint member of the American Hereford Association.

With crops, as with livestock, he insists on purity. He seeded 9 acres of registered Buffalo alfalfa last year for certified seed production and is seeding 12 more acres this year. He planted 19 acres last fall of certified Pawnee

wheat and 7 acres this spring of certified Cherokee oats. He also has 1½ acres of certified brome grass for seed production.

Soil conservation and good farming practices have not been neglected. Karl built 2 government-approved sediment ponds and several small dams, as well as 2 terraces during 1949. He applied 2½ tons of lime an acre to his Buffalo alfalfa, and put 100 pounds of 33 per cent nitrogen an acre on his wheat and oats this spring.

All this adds up to the fact that Karl holds the State Farmer award in his FFA work and has a net worth already of \$26,661.34.

In his 4-H Club work, Karl has been equally successful. Here are just a few of the honors he has picked up along the way:

1947-48-49—County project achievement winner and general livestock champion.

1948-49—County general crops champion.

1949—County soil conservation champion.

1947-48—County beef champion.

1949—County corn champion.

1948-49—County wheat champion.

This year Karl is staying out of school and working on the home farm with his parents, Mr. and Mrs. Paul K. Rau, and his brother and 2 sisters. All of the Rau children have been active in FFA or 4-H Club work. Next fall Karl will enroll at Kansas State College. After his graduation he will begin farming in earnest. His success already seems assured. There are hundreds more like him in Kansas.

Where Did They Start?

WITH so much interest in spraying and dusting weeds and insects, readers have asked KANSAS FARMER where all this started anyway. Here are some notes that might be of interest.

1. Earliest reference to origin of spraying is to "the syringing of fruit trees in Europe as early as 1763"; altho the inference is left that the practice was known before that time. This reference is found on page 227 of the book "Commercial Apple Industry of North America" by Folger, published by MacMillan Company, New York, 1921.

2. Development of Bordeaux mixture as an outgrowth of the grape mildew in France in the 1870's seem to be the springboard for modern spraying development. This is discussed on pages

88-93 of "Sketch of the Evolution of Our Native Fruits" by Bailey, published by MacMillan, New York, 1898.

3. Use of Paris green on potatoes in 1865 and on fruit trees in 1873 are mentioned as earlier dates for spraying in "The Encyclopedia of American Horticulture."

4. The Book of Rural Life, Volume III, mentions that crop dusting was started "before 1880" and Volume IX traces spraying from the Bordeaux mixture development.

5. From all reference indications, the source of the most complete early history of spraying is "The Spraying of Plants," by E. G. Lodemann, instructor in horticulture of Cornell University; MacMillan Co., 1896. This book is not available, altho we are trying to track it down.

This information came from the Dobbins Manufacturing Company, Elkhart, Ind., and D. P. Guthridge, vice-president of Spencer Curtis, Inc., Advertising Company.

Underground Pests

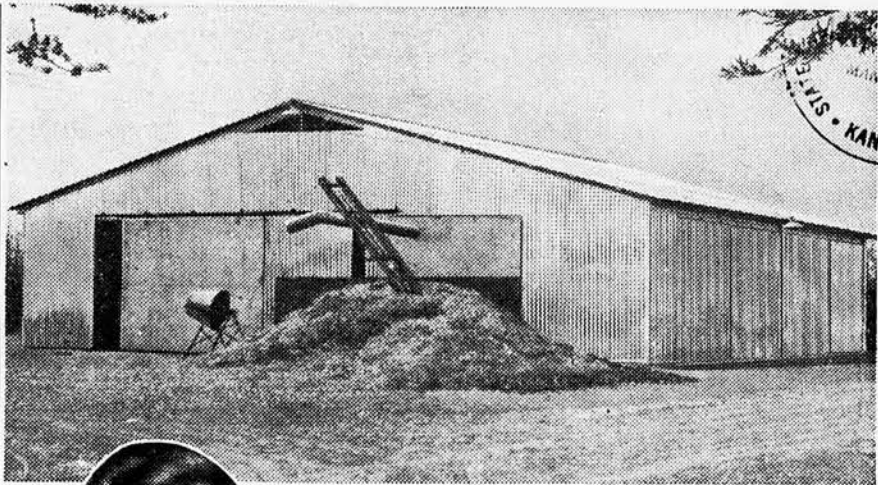
Scientists are trying to find some way to control nematodes that live underground and are crop pests.

J. R. Christie, of the U. S. Department of Agriculture, says, "There is need for a stable material deadly to nematodes for a month or so, yet relatively harmless to plants."

The ideal chemical, Christie thinks, would be in the form of a salt that could be applied like fertilizer—perhaps with it—that would kill a wide variety of soil organisms in addition to insects, fungi and weeds in the seed stage, then disintegrate. It all sounds good, doesn't it.



He had crossed the ocean—a non-stop flight,
And the snow began falling that very night.
"Aha," cried the birdie in highest glee,
"They're throwing confetti to honor me!"



C. J. SMITH, California almond grower, says: "It gets as hot as 100° in Oakdale in August—but not inside my aluminum barn! Working in there, it's . . .

Like sitting under a shade tree!

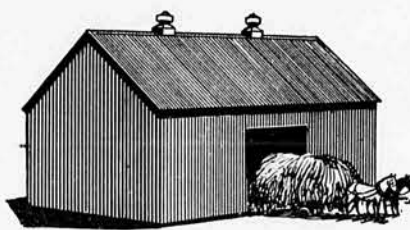
"Almond hulling comes during the hottest part of the year," explains Mr. Smith. "In my old barn we had to put off operations until late afternoon because my six employees couldn't stand the heat.

"But in my new barn built of Kaiser Aluminum Roofing, it's so cool and comfortable inside, even in August, that we work a normal day during hulling season. Alumi-

num actually turns the heat away!

"I like the way Kaiser Aluminum goes on," Mr. Smith adds. "My son and I built the entire 40 by 40 barn in just five days. And I'll never have to paint it.

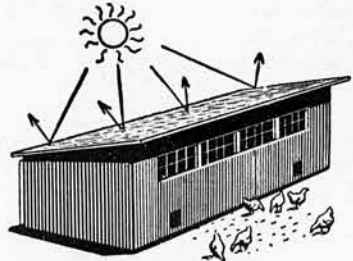
"Yes, I'm sold on the lightness, strength and insulation of aluminum roofing. My new chicken house is definitely going to be made of Kaiser Aluminum Roofing!"



Under Kaiser Aluminum Roofing, poultry and stock produce more, stored crops and supplies stay fresher! It reflects sun's heat, keeps interiors 10° to 15° cooler!



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POULTRY FARMER:

"Hens produce more eggs in my chicken house made of Kaiser Aluminum because it's cooler inside," says P. T. Meyers, Hayward, California. So that others may benefit, please write us your experiences with aluminum roofing.

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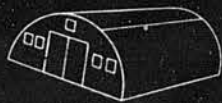
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School Lunch Success

By EULA MAE KELLY

THREE-HUNDRED pupils of the Cimarron consolidated school are served lunch within an hour in an attractive 34- by 62-foot building, which, until its conversion was a part of a surplus hospital-mess hall at the Dodge City airbase. A short distance away, the other wing of the building houses the first kindergarten Gray county has ever had.

At the other end of the school grounds, 2 more barracks serve the school as a mechanical arts building and a bus garage. The 4 buildings, bought at a cost of about \$400, have been so nicely converted not a vestige of the "barracks" look remains. Set well off the ground on concrete foundations, the asbestos-shingled structures fit unobtrusively into the school campus.

Use 10 Busses

An alert school board is responsible for so competently meeting the needs of this expanding school, whose 400 pupils are transported in 10 busses from all ends of the county.

To realize the vast improvement made in lunch-room facilities, one merely has to compare the dark basement used as a lunch room last year with the shining new building now in use. As you enter the new building from the front stoop, you are impressed at once with the spacious, clean look of the place.

Soft, green walls, complemented by white woodwork, made a cheerful interior. Four-inch thick concrete floors, covered with asphalt tile in a beige-gray mottled design, make for quietness. The ceiling of the original building was raised and covered with a soundproof material that also helps with the noise problem.

To provide abundant light, 2 additional windows were added and large

fluorescent lights placed in the ceiling. Venetian blinds are used at windows.

"The tables," Supt. A. S. Arnold explained, "are large parachute folding tables which we obtained at the airbase. They measure 24 feet long. We had seats made to go with them and braced them so they would be as sturdy as the tables. Smaller tables are used for the younger school children. Tables and seats are both finished with the new penetrating floor seal, which we like very much."

Pupils are served in shifts, beginning at 11:30 o'clock, with the last group served by 12:30 o'clock. Music is even provided for the lunch hour from a record player in one corner of the building. Two suspended gas heaters do an efficient job of heating.

But special pride of the lunch-room building is the cooking and serving unit which occupies the north end. Carefully planned work centers, including ample space for cooking, serving, and clean-up, were worked out with the help of the Gray county home demonstration agent.

Built-in cabinets for storage, a new
(Continued on Page 9)

New Shower Leaflet

We have just prepared a cradle shower leaflet, "Streamlining the Stork," which offers clever suggestions for entertaining and presenting the gift. If you are planning such a shower this leaflet will be interesting. Please send 3 cents for postage to Entertainment Editor, Kansas Farmer, Topeka, and your order will be given prompt attention.



THIS CAMPUS VIEW at the Cimarron consolidated school in Gray county shows the new school lunch and kindergarten buildings in center and at right of picture, with the music hall at left. The additional facilities were converted from a surplus army hospital-mess hall obtained at the Dodge City airbase. The two sections were separated and remodeled to fit the needs of this rapidly-growing grade and high school.



ATTRACTIVE INTERIOR of Cimarron school lunch building with kitchen and serving area in background. Large tables in foreground were folding parachute tables obtained from Dodge City airbase. Their size and sturdiness makes them ideal for school lunch use. New electric dishwasher is shown at the extreme right in the kitchen area.

electric dishwasher, metal carts on rollers, and a institutional-size gas stove are features of the school lunch kitchen. Money saved from lunch-room funds are applied on the purchase of the new equipment.

Two walk-in lockers for storage of meats, vegetables, staple groceries and commodity goods line the west side of the building, along with a generously-sized rest room. A loafing dock and outside entrance on the west side of the building make kitchen deliveries easy. In time, a garbage-disposal unit and a steam table will be added to the Cimarron lunch equipment.

Students file past the new serving counter where plates are filled cafeteria style. When they have finished with their lunch, they return the dishes to dish tables from which the automatic dishwasher is loaded.

The type-A lunch is served here. It consists of a hot dish, salad, leafy vegetable, bread and butter, milk and dessert. It costs the children 25 cents. Boys and girls are never forced to eat, but food is made as varied and attractive as possible. Seconds are always available.

Come Again, Mr. Wu

A Chinese agriculturist spent 3 weeks in Kansas during April, studying Extension service programs. The visitor was Mark S. M. Wu, of Oberlin Memorial College, Chengtu, Szechuan, China.

During his 3-week's stay in Kansas he lived on the farm of C. C. Kagarice, Hutchinson, and worked with County Agent Charles A. Hagaman while studying extension methods and agricultural practices. He was especially interested in mechanized farming.

Mr. Wu hopes to establish a rural service center in Ghina, patterned somewhat after extension service, that will promote a better life for the farm population. He wants to teach his friends in China how to increase production, establish credit co-operatives, and recreational facilities.

Health Threat

Because people are more susceptible to swine brucellosis than to the cattle type, it is of great public health importance, says E. E. Leasure, of the Kansas State College veterinary medicine department.

Swine brucellosis is becoming more of a problem in Kansas, he reports. When brood sows or males are suspected of having brucellosis, the entire group should be blood tested and cultured whenever possible, he advises.

While the disease tends to be self-limiting in the individual, it is progressive in the herd, Doctor Leasure says. Infected swine may not become blood reactors for 7 or 8 weeks, and then lose the blood reaction, altho remaining infected. Having the entire herd tested will give a more accurate picture of the drove problem, Doctor Leasure points out.

Temperature Guard

It is essential to have an alarm on home freezers to signal when rising temperature endangers frozen foods, say scientists of the U. S. Department of Agriculture.

Considerable work is being done by these scientists to find the best location in the freezer for the sensitive bulb that sets off the alarm. They advise placing the bulb against the back liner of the freezer, at a point level with what would be the top layer of cartons if the freezer were fully loaded.

In chest-type freezers with more than one compartment, scientists recommend the alarm bulb be placed in the storage compartment farthest from the compressor. And in a vertical freezer, they say, place the bulb in the top compartment.

Almost Berry Season

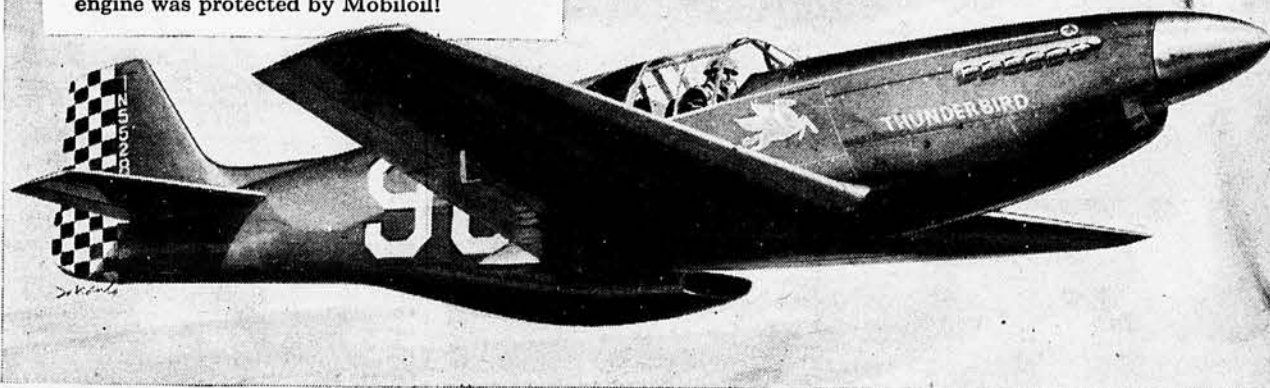
If you are planning to freeze strawberries, raspberries or other berries, the Kansas State College Extension bulletin, "Freeze Storage of Food," will give you reliable step-by-step instructions for proper freezing of these delicate fruits. The leaflet also contains information on freezing other foods. A free copy of the bulletin will be sent upon request to Farm Service Editor, Kansas Farmer, Topeka.

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NEW BENDIX RECORD SET—

Last September, Joe DeBona won coveted Bendix Trophy at Cleveland Air Races with average speed of 470.136 mph over 2010-mile trans-continental course. His engine was protected by Mobiloil!



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Get Famous Mobilgrease and Mobilube Gear Oil, too!

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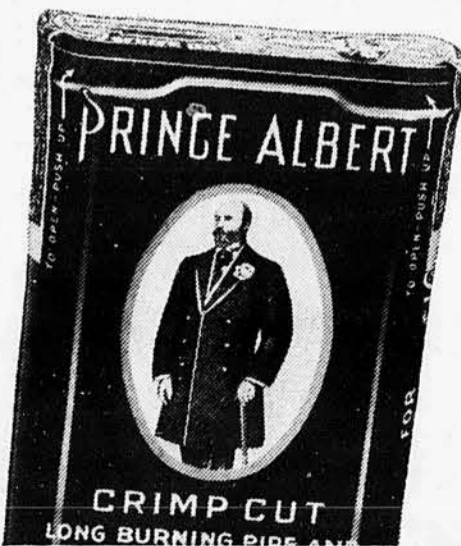
"CRIMP CUT
PRINCE ALBERT MEANS
SOLID PIPE COMFORT
TO ME. AND I SURE
LIKE P.A.'S MILD,
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**How Much 2,4-D
Should I Use?**

YOU MAY be confused on how much 2,4-D to use for a specific spraying job. This confusion is natural, brought about by numerous trade products, different formulations, and variations in percentage of actual 2,4-D acid.

"If you really want to do farmers a good turn," says Ted Yost, state weed supervisor, "run a table in Kansas Farmer showing farmers how to use all the 2,4-D preparations approved for Kansas."

So, here Kansas Farmer brings you 3 tables, prepared by Mr. Yost's department. Dosage recommendations in these tables are in line with state official methods for noxious weeds, and the Kansas State College recommendations for treating annual weeds in crops. When treating perennial weeds do not plow or work them in any way for a 2-weeks period after treatment.

Why not clip out these 3 tables—on pages 10 and 11—paste them on cardboard base, and tack up wherever you mix your chemicals. They will save you lots of time and trouble.

2,4-D ESTER FORMULATIONS

Manufacturer or Distributor	Name of 2,4-D ester formulations	% of 2,4-D acid	Lbs. 2,4-D acid per gallon	Lbs. 2,4-D acid per pint	Hindweed or perennial weeds in noncrop areas, use 1 lb. 2,4-D acid per acre. This is equal to:	Annual weeds in crops, use 1/2 lb. 2,4-D acid per acre. This is equal to:
BUTYL ESTER						
Associated Chemists, Inc.	Weedanol 50	40.3	3.34	.42	2.4 pts.	3/4 to 1 1/2 pts.
Chemical Corp. of Colo.	Butyl Ester	32.0	2.6	.33	3 pts.	3/4 to 1 1/2 pts.
Chemical Corp. of Colo.	Super Butyl Ester	64.0	6.4	.80	1 1/2 pts.	3/4 to 1 1/2 pts.
Chemical Corp. of Colo.	Airplane Ester	78.0	8.1	1.01	1 pt.	3/4 to 1 1/2 pts.
Dale Rawlins & Sons	Weed Killer	31.8	2.64	.33	3 pts.	3/4 to 1 1/2 pts.
Dannen Mills, Inc.	Weed-X	32.0	2.64	.33	3 pts.	3/4 to 1 1/2 pts.
Evans Orchard Sup. Co.	Evans BE-2.66	32.0	2.66	.33	3 pts.	3/4 to 1 1/2 pts.
Evans Orchard Sup. Co.	Evans BE-6.38	82.5	6.38	.80	1 1/2 pts.	3/4 to 1 1/2 pts.
Evans Orchard Sup. Co.	Evans BE-6 Oil Soluble	77.55	6.0	.75	1 1/2 pts.	3/4 to 1 1/2 pts.
Gordon Chem. Co.	Weed Killer	31.8	2.64	.33	3 pts.	3/4 to 1 1/2 pts.
Kolker Chem. Works, Inc.		31.6	2.67	.33	3 pts.	3/4 to 1 1/2 pts.
Miller Chem. Co.	Weedster 40	32.0	2.64	.33	3 pts.	3/4 to 1 1/2 pts.
Pearson Ferguson Co.	Weed Killer	31.8	2.64	.33	3 pts.	3/4 to 1 1/2 pts.
Penn. Salt Mfg. Co.	Penco 40%	31.6	2.67	.33	3 pts.	3/4 to 1 1/2 pts.
Penn. Salt Mfg. Co.	Penco 638 Emul. Conc.	65.6	6.38	.80	1 1/2 pts.	3/4 to 1 1/2 pts.
Pioneer Chem. Corp.	Ester Weed Killer	32.0	2.65	.33	3 pts.	3/4 to 1 1/2 pts.
Pronto Products Co.	Weed Killer	31.8	2.64	.33	3 pts.	3/4 to 1 1/2 pts.
Reasor-Hill Corp.	R-H 40% Butyl Ester	32.0	2.66	.33	3 pts.	3/4 to 1 1/2 pts.
Reasor-Hill Corp.	R-H 79% Butyl Ester	63.0	6.0	.75	1 1/2 pts.	3/4 to 1 1/2 pts.
Rockwell Lab., Inc.	Weed Killer	31.8	2.64	.33	3 pts.	3/4 to 1 1/2 pts.
Sherwin-Williams Co.	Agri. Weed-No-More	32.0	2.64	.33	3 pts.	3/4 to 1 1/2 pts.
Thompson Horticulture	Weedicide 40%	32.0	2.64	.33	3 pts.	3/4 to 1 1/2 pts.
Woodbury Chem. Co.	Sure Death	32.0	2.64	.33	3 pts.	3/4 to 1 1/2 pts.
Woodbury Chem. Co.	Sure Death	75.5	7.47	.93	1.1 pts.	3/4 to 1 1/2 pts.
W. T. Muncy Co.	Weed Killer	31.5	2.64	.33	3 pts.	3/4 to 1 1/2 pts.
ISOPROPYL ESTER						
Calif. Spray Chem. Corp.	Estercide 330	37.0	3.34	.41	2 1/2 pts.	3/4 to 1 1/2 pts.
Chemical Corp. of Colo.	Isopropyl Ester	37.0	3.34	.41	2 1/2 pts.	3/4 to 1 1/2 pts.
Chemical Corp. of Colo.	Isopropyl Ester Conc.	82.3	8.64	1.08	1 pt.	3/4 to 1 1/2 pts.
Chipman Chem. Co., Inc.	Isopropyl Ester	37.0	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Cook Chem. Co.	Weed Killer 405	33.5	2.63	.33	3 pts.	3/4 to 1 1/2 pts.
Dale Rawlins & Sons	Weed Killer	38.5	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Douglas Chem. & Sup. Co.	Weed Killer	34.7	2.65	.33	3 pts.	3/4 to 1 1/2 pts.
Dow Chem. Co.	Esteron 44	37.0	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
E. I. du Pont & Co.	Ester Weed Killer 46%	39.0	3.50	.44	2 1/2 pts.	3/4 to 1 1/2 pts.
Evans Orchard Sup. Co.	Evans IE 3.34	37.0	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Gordon Chemical Co.	Weed Killer	38.5	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Hanson Chem. & Equip. Co.	Weeddeath Ester 44	37.0	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Kolker Chem. Works, Inc.		37.0	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Michigan Chem. Corp.	Weedmaster 44	37.0	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Michigan Chem. Corp.	Airplane Spray	37.0	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Miller Chem. Co.	Isopropyl Ester 44	37.0	3.34	.41	2 1/2 pts.	3/4 to 1 1/2 pts.
Niagara Chem. Div.	Esta Sol	37.0	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Pearson Ferguson Co.	Weed Killer	38.5	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Penn. Salt Mfg. Co.	Penco 44 E	37.0	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Pronto Products Co.	Weed Killer	38.5	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Ralston-Purina Co.	Woody Weed Killer	37.0	3.28	.41	2 1/2 pts.	3/4 to 1 1/2 pts.
Rawdon Bros. Airt., Inc.	Ag. Chem. 2,4-D	37.0	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Rawdon Bros. Airt., Inc.	Aero Chem. 2,4-D (OS)	37.0	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Rockwell Lab., Inc.	Weed Killer	38.5	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Dr. Salsbury's Lab.	Weed-Kill E-4	37.0	4.00	.50	2 1/2 pts.	3/4 to 1 1/2 pts.
Dr. Salsbury's Lab.	Weed-Kill E-3.34	37.0	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Standard Agri. Chem.	Stantox 44	37.0	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Swift & Co.	Gold Bear 44	37.0	3.34	.41	2 1/2 pts.	3/4 to 1 1/2 pts.
Thompson Horticulture	Weedicide 45%	38.0	3.36	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
U. S. Rubber Co.	Tufor E	38.0	3.36	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
Warren-Douglas	Warlaseo	37.0	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
W. T. Muncy Co.	Weed Killer	38.5	3.34	.42	2 1/2 pts.	3/4 to 1 1/2 pts.
ETHYL ESTER						
Am. Chem. Paint Co.	Weedone Conc. 48	34.6	3	.38	2 1/2 pts.	3/4 to 1 1/2 pts.
METHYL ESTER						
Thompson-Hayward Chem. Co.	Ded-Weed ME 4	24.0	2.66	.33	3 pts.	3/4 to 1 1/2 pts.
Thompson-Hayward Chem. Co.	Ded-Weed ME 5	30.0	3.33	.416	2 1/2 pts.	3/4 to 1 1/2 pts.

For woody plants, only the ester form of 2,4-D is recommended. Use 5 pints of the 32 per cent butyl ester or 4 pints of the 37 per cent isopropyl ester in 100 gallons water. Apply this mixture as a wetting spray. The esters of 2,4,5-T are more effective than 2,4-D on osage orange, poison ivy, black locust and honey locust. Use 5 pints of the butyl ester of 2,4,5-T in 100 gallons of water; or 4 pints of the isopropyl ester of 2,4,5-T in 100 gallons of water. Thoroughly wet the foliage. Buckbrush should be sprayed from May 15 to June 5, and sumac and skunkbrush may be sprayed any time during June. Sprouts of susceptible species of trees should be treated as shrubs, but with double strength solution. It is usually necessary to re-treat woody jobs one or more times.

2,4-D SODIUM SALT FORMULATIONS (Powdered)

Manufacturer or Distributor	Name of 2,4-D powder formulations	% of 2,4-D acid	Lbs. 2,4-D acid per gallon	Lbs. 2,4-D acid per pint	Hindweed or perennial weeds in noncrop areas, use 1 lb. 2,4-D acid per acre. This is equal to:	Annual weeds in crops, use 1/2 lb. 2,4-D acid per acre. This is equal to:
Associated Chemists, Inc.	Weedanol 70% Powder	70.0			1 1/2 lbs.	3/4 to 1 1/2 lbs.
Chipman Chem. Co., Inc.	Spray Powder 60	60.0			1 1/2 lbs.	3/4 to 1 1/2 lbs.
Chipman Chem. Co., Inc.	Spray Powder 80	80.5			1 1/2 lbs.	3/4 to 1 1/2 lbs.
Dow Chem. Co.	2-4 D Powder	80.5			1 1/2 lbs.	3/4 to 1 1/2 lbs.
E. I. du Pont & Co.	83% Sodium Weed Killer	75.9			1 1/2 lbs.	3/4 to 1 1/2 lbs.
General Chemical	Sodium 2,4-D	83.0			1 1/2 lbs.	3/4 to 1 1/2 lbs.
Hanson Chem. & Eq. Co.	Weeddeath 80.5%	80.5			1 1/2 lbs.	3/4 to 1 1/2 lbs.
Kolker Chem. Works, Inc.		82.0			1 1/2 lbs.	3/4 to 1 1/2 lbs.
Miller Chem. Co.	Powdered Weed Killer	70.0			1 1/2 lbs.	3/4 to 1 1/2 lbs.
Penn. Salt Mfg. Co.	Penco 80% Weed Killer	80.0			1 1/2 lbs.	3/4 to 1 1/2 lbs.
Ralston-Purina Co.	Powder Weed Killer	70.0			1 1/2 lbs.	3/4 to 1 1/2 lbs.

* If conditions are favorable the one pound rate is adequate. Under less favorable conditions the rate should be increased to one and one-half pounds per acre.

2,4-D AMINE SALT FORMULATIONS

Manufacturer or Distributor	Name of 2,4-D amine salt formulations	% of 2,4-D acid	Lbs. 2,4-D acid per gallon	Lbs. 2,4-D acid per pint	Bindweed or other perennial weeds in noncrop areas, use 1 lb. 2,4-D acid per acre. This is equal to:	Annual weeds in crops, use 1/2 to 1 lb. 2,4-D acid per acre. This is equal to:
Am. Chem. Paint Co.	Weedar 64	39.4	4.0	.50	2 pts.	1 to 2 pts.
Associated Chemists, Inc.	WeedanolAmineLqd. 40	39.2	4.0	.50	2 pts.	1 to 2 pts.
Calif. Spray Chem. Corp.	Weed B Gon 64	40.0	4.0	.50	2 pts.	1 to 2 pts.
Chemical Corp. of Colo.	Weed Killer	40.0	4.0	.50	2 pts.	1 to 2 pts.
Chipman Chem. Co., Inc.	Amine 67%	40.0	4.0	.50	2 pts.	1 to 2 pts.
Cook Chem. Co.	Farm Weed Killer	41.5	4.0	.50	2 pts.	1 to 2 pts.
Dale Rawlins & Sons	Weed Killer	40.0	4.0	.50	2 pts.	1 to 2 pts.
Dannen Mills, Inc.	Weed-X	42.0	4.0	.50	2 pts.	1 to 2 pts.
Douglas Chem. & Sup. Co.	Weed Killer	43.0	4.1	.50	2 pts.	1 to 2 pts.
Dow Chem. Co.	2-4 Dow 40	40.0	4.0	.52	2 pts.	1 to 2 pts.
E. I. du Pont & Co.	85% Amine Weed Killer	39.0	4.0	.50	2 pts.	1 to 2 pts.
E. I. du Pont & Co.	87% Amine Weed Killer	40.0	4.1	.52	2 pts.	1 to 2 pts.
E. I. du Pont & Co.	74% Amine Weed Killer	40.0	4.0	.50	2 pts.	1 to 2 pts.
General Chemical	Amine Weed Killer	40.0	4.1	.51	2 pts.	1 to 2 pts.
Gordon Chem. Co.	Weed Killer	40.0	4.0	.50	2 pts.	1 to 2 pts.
Hanson Chem. & Eq. Co.	Weedath 40	40.0	4.0	.50	2 pts.	1 to 2 pts.
J. I. Holcomb Mfg. Co.	Rid-O-Weed 20	20.0	1.8	.23	4 1/2 pts.	2 to 4 pts.
Kolker Chem. Works, Inc.	Weedmaster 40	40.0	4.1	.52	2 pts.	1 to 2 pts.
Michigan Chem. Corp.	Weedeth 40	39.0	4.0	.50	2 pts.	1 to 2 pts.
Miller Chem. Co.	Weedeth 40	40.0	4.0	.50	2 pts.	1 to 2 pts.
Niagara Chem. Div.	AM SOL	39.3	4.0	.50	2 pts.	1 to 2 pts.
Pearson Ferguson Co.	Weed Killer	40.0	4.0	.50	2 pts.	1 to 2 pts.
Penn. Salt Mfg. Co.	Penco 40% Weed Killer	40.0	4.2	.52	2 pts.	1 to 2 pts.
Pioneer Chem. Corp.	Amine Weed Killer	40.0	4.0	.50	2 pts.	1 to 2 pts.
Pronto Products Co.	Weed Killer	40.0	4.0	.50	2 pts.	1 to 2 pts.
Ralston-Purina Co.	Amine Weed Killer	40.0	4.0	.50	2 pts.	1 to 2 pts.
Reason-Hill Corp.	67% Amine Salt	40.0	4.0	.50	2 pts.	1 to 2 pts.
Rockwell Lab., Inc.	Weed Killer	40.0	4.0	.50	2 pts.	1 to 2 pts.
Rohm & Haas Co.	Kathon M-7	41.5	4.0	.50	2 pts.	1 to 2 pts.
Dr. Salsbury's Lab.	Weed-Kill A-4	42.0	4.0	.50	2 pts.	1 to 2 pts.
Standard Agri. Chem.	Stantox 64	39.3	4.0	.50	2 pts.	1 to 2 pts.
Swift & Co.	Gold Bear 40	40.0	4.2	.51	2 pts.	1 to 2 pts.
Thompson-Hayward Chem. Co.	Ded-Weed 40	40.0	4.0	.50	2 pts.	1 to 2 pts.
Thompson Horticulture	Weedicide Conc.	40.0	4.0	.50	2 pts.	1 to 2 pts.
U. S. Rubber Co.	Tufor 10	37.0	4.0	.50	2 pts.	1 to 2 pts.
Warren-Douglas	Warriaco	42.5	4.0	.50	2 pts.	1 to 2 pts.
W. T. Muncy Co.	Weed Killer	40.0	4.0	.50	2 pts.	1 to 2 pts.

From Kansas Ranch To N. Y. Dental Office

REMEMBER the Putnin family—Katrine, Karlis and Lucy? Robbed of home and everything by Communists, thrown into concentration camp, they escaped Europe and as "displaced" persons found "A New Way of Life" on the Clark county ranch owned by Mr. and Mr. John Stephens. Their story was ably told by Ruth McMillion, of Ashland, in the January 7, 1950, issue of KANSAS FARMER.

Here is the sequel to that story: Recently Karlis Putnin left the Stephens ranch in Clark county, where he had come as a farm helper, to go to New York City where he will be a dental technician at \$200 a month for a Latvian whom he knew in the old country. His wife, Katrine, had been called to New York earlier because her mother, who lives with their daughter Lucy, had a stroke.

Katrine's mother did not improve. She could not be brought to the ranch so the Stephens urged Karlis to go to his family and accept work that had been offered him there. He was reluctant to go until they had a family to take their place, but time was passing and he finally consented.

Stephens had put in application for another Latvian family, a family whom Karlis knew and one with definitely a farming background.

Even before he left Karlis was homesick for the ranch, he liked the cattle, the chickens, the quietness and security he left in the country and he liked the feel-of-the-land.

When asked whether he felt this sadness when he left Germany to come to the states he said "No", there was no homesickness but when he left his own Latvia it was like this, and added, "It

hurt inside of my heart when I left my Latvia."

Karlis said, "This isn't goodbye, this is Aus Vider Siene, or until we meet again."

The Stephens plan to visit the Putnins in New York this year. They also told Karlis if they were not happy in New York to let them know and they could return to the ranch.

When Karlis arrived in New York it was just 4 days short of a year since their daughter had left them in Germany to come to the States and to they knew not what.

Today, Lucy is a dental assistant in New York and in 2 years can have her own license. She had her own dental practice for 1 1/2 years in Latvia before the invasion.

In New York there is a Latvian community center of 600 Latvians, some of whom Karlis knows.

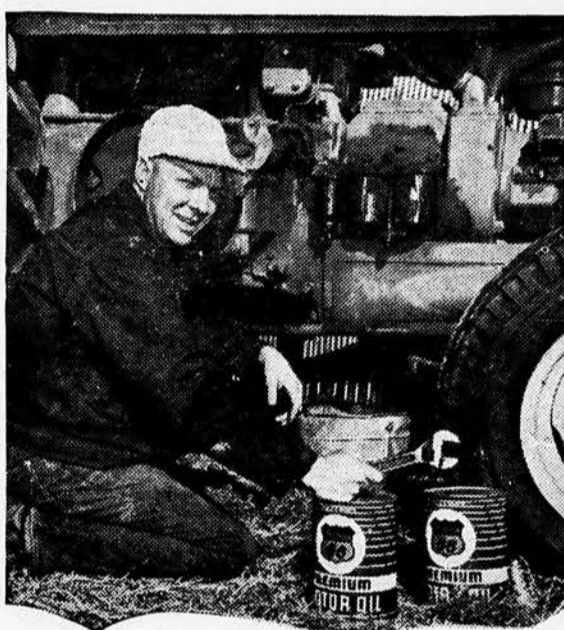
Now the Putnins are all reunited and have the prospects of a happy future, thanks to the generosity of the Stephens family for whom they were to work.

Aid to Short Rotation

Wide-spaced oats and sweet clover make an excellent short rotation combination for Eastern Kansas, says Roscoe Ellis, Jr., Kansas State College agronomist.

Successful growth of the legume on many fields, he says, requires liming and use of phosphorus fertilizer. Spreading lime just before seedbed preparation is a good practice, he adds, since tillage operations during seedbed preparation will work the lime into the soil.

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TOGETHER AGAIN: Katrine, Karlis and Lucy Putnin find life good in the United States. They started out on a Clark county ranch, now are in New York City.



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If You Want Early Tomatoes!

By W. G. AMSTEIN,
Kansas State College



EARLIER tomato production is an ambition of most gardeners. A pound of tomatoes for market the first week of the season is worth 5 to 10 times as much as during a glut period 2 months later. A practical answer has been worked out making use of hormones or growth-regulating substances to get early set of the blooms.

For years many different solutions to lack of early tomato production have been suggested. Some have worked while others have been a total flop. Weather usually has been blamed for failures and recent work has further emphasized this fact. Cool nights, such as commonly occur during the first bloom period of the tomato plant, seem to hurt our chances for early fruit. Pollination is not normal and the early or first-cluster fruits do not develop. If the night temperatures fall below 60 degrees Fahrenheit, poor fruit-set is to be expected. Then within 2 or 3 weeks, excessively high day temperatures may be expected and the pollen produced then is injured and a poor set develops.

Almost Beyond Belief

Use of certain hormones to provide for setting of early fruits, under conditions where untreated plants dropped their flowers, often gives results almost beyond belief. Tests in several states with common tomato varieties have generally demonstrated the practical benefit of fruit-set hormones. Not only are tomatoes ready to be picked a week or 2 weeks earlier from plants where the flowers were sprayed, but the fruits often are several ounces heavier.

Not only is earlier and heavier production obtained as well as larger fruits, but the same effect is noticed for several pickings in many tests.

If temperature and moisture conditions are favorable for a normal bloom and fruit-set, spraying hormones on the flowers will not show any benefit. This often is true with late plantings of tomatoes. Hormone spray often makes poorly-adapted varieties produce when otherwise the blooms would be shed.

I doubt whether you should try this hormone-spray treatment on all of your tomato plants for several reasons. First, you may not have time to treat all of them. Second, hormones may cause some twisted and distorted leaves for a time after the spray is applied. Third, total yield often is reduced even tho earlier yields are obtained on the sprayed plants. Fourth, plants producing a heavy yield early are often stunted so later clusters are not as fully developed as on an untreated plant.

You will notice very few seeds in fruits produced early with hormone sprays. If you keep the treated fruit around, it may soften more rapidly after being picked than untreated fruit. At times you may think it helps to de-

velop blossom-end rot. This is rather doubtful. It is more probable that conditions where dry weather checked the plants resulted in more blossom-end rot showing up.

Several different types of hormone materials have been tested for this purpose. Actual chemical names are almost beyond pronouncing or spelling. We should be thankful for trade names under which commercial products are distributed. For example a spray solution made up of 30 parts of hormone (para-chlorophenoxyacetic acid) per million parts of water has given good results. However, I suggest you look for one of the commercial products such as Sure-Set, Tomato-Tone, or No-Seed and use it carefully according to directions on the package.

If you want to apply these hormone materials I suggest you arrange to have them on hand and plan to get a response in early fruit on set plants. Do not expect any marked returns from spraying under normal conditions.

When to Apply

Apply spray first when 3 or 4 flowers are open on the first cluster. All plants will not be blooming at the same time. You will not care or need to take time to spray single plants, but will want to wait until several plants have 3 to 4 open flowers. Do not spray unopened flowers.

Second spray should be applied a week later when more flowers are open, if weather at night remains cool with temperatures below 60 degrees Fahrenheit. On determinate varieties such as Victor and Sioux you may not find it practical to apply a second spray since the individual flower clusters are close to one another.

In spraying do not cover the whole plant. Confine spray to the open flowers.

Hold sprayer nozzle fairly close to the cluster and avoid spraying leaves. Use care or foliage will develop a "new look." You do not have to spray solution into open flowers. Applying it to side or back of flower works as well.

Small atomizers, fly sprayers, and similar equipment can be used. It is better to have a sprayer or atomizer that has not been or will not be used for other purposes. A cone-shaped, fine-mist nozzle type of opening works best. Do not treat all your plants. You may not find it is needed this year.

Some ask about spraying beans and certain other crops. Results thus far have not been as consistently good as with tomatoes.

Whatever you use or do, follow dilution directions on the package.

Lush, Green Pastures In Place of Apple Trees

By JAMES SENTER BRAZELTON

REMINISCENT of days when there were apple blossoms in Doniphan county, the service battery of Kansas National Guard sponsored a 3-day Apple Blossom Festival at Troy, April 19 to 21. Highlighting this annual spring event was crowning Beryl Smith, of Highland, as apple blossom queen by Governor Frank Carlson.

Miss Smith, attractive brunette, is the 16-year-old daughter of Mr. and Mrs. George Smith, well-known purebred Jersey cattle breeders and exhibitors. She is president of the junior

class in the Highland Rural School and sings in the girl's glee club. She has been active in 4-H Club work 8 years and has carried projects in dairying, sewing, cooking, beef production and swine. For the last 2 years she has had grand champion cow at the Hutchinson State Fair. She has a sister, Lillie, 15, and a brother, Gilbert, 11.

Maids of honor were: Clara Berry, Bendena; Betty Hammersmark, Denton; Peggy Kuschell, Elwood; Lulu Hendricks, Severance; Elsie Clary.

(Continued on Page 13)

Troy; Henrietta Peuker, Wathena; Jean Sherman, Leona and Mida Tilton, White Cloud.

The program included several numbers by county high-school musicians from the 9 schools of the county, and a mass band of 240 led by the music directors of the various schools.

How much longer this annual celebration, reminding us of a former glory, will be continued I do not know. But if we must crown a queen out of habit, we may as well call her the cabbage queen or the onion queen. We have as many of those commodities nowadays as we have apple blossoms.

On those hills of eastern Kansas that use to be covered with thousands and thousands of apple trees, herds of cattle and hogs now graze in lush green pastures. The orchards that once made Doniphan county famous are gone. Only a few of the younger orchards are left and these are mostly around Wathena. There are still a few orchardists remaining who have faith in the industry that once made men wealthy. But the greater majority have bulldozed their orchards out and planted their land to other crops.

There is not just one reason for this condition. The trouble first dates back to the thirties when the government, thru its Pure Food and Drug Act,

clamped down on the orchardist and made him wash his apples in an acid solution to remove spray residue. Equipment necessary to do this job and the extra labor required increased production costs, but average price received for a bushel of apples remained about the same. This was the first knockout blow to the industry.

Following swiftly came the drouth years of 1934-36 when hundreds of trees died from lack of moisture. Seemingly, the unkindest thing that could happen came on Sunday, September 3, 1939, when a fierce south wind, like the breath from a fiery dragon, carpeted the orchards two layers deep with beautiful, fresh, ripe apples ready for harvest. Picking in most orchards was to have started the following day. Orchardists beheld their crop in dismay. The top side of every apple was cooked by the blistering heat before it had been on the ground an hour.

But, as it happened, this calamity was not the worst that could befall. A far greater catastrophe swooped down on November 11, 1940. This has gone down in apple history as the Armistice Day freeze. Below zero temperatures, coming before any frosts had hardened the trees for winter, killed thousands outright and so damaged others they were never able to bear full crops again.

Butler County Dedicates New 4-H Club Building

By L. P. KLINTWORTH

THE history of Butler county's new 4-H Club building, dedicated April 27 at El Dorado, before a throng of home folk, farm leaders and state officials, is the story of an idea and its development.

Also, it is the story of a community endeavor which is expected to pay big dividends in development of Butler county's rural youth.

The climax was reached the night of April 27 when a throng estimated at 1,500 persons joined in dedicatory ceremonies and heard J. M. Patterson, public-relations field representative of Standard Oil company (Indiana), pay tribute to Butler county and to the youth of the nation generally. Mr. Patterson, a recognized leader in youth activities, was principal speaker.

Constructed at a cost of \$62,189, the building was formally dedicated by L. C. Williams, dean of Kansas State College Extension Service and acceptance was by Mac Childs, chairman of the board of Butler county commissioners. Four-H Club members played a prominent part in the ceremony.

Many Leaders Present

Joining in the dedication were scores of farm leaders, state officials and men prominent in industry in the Midwest. The long list of special guests included Frank L. Hagaman, lieutenant governor of Kansas; Roy Freeland, secretary of the Kansas State Board of Agriculture; J. Harold Johnson, state 4-H Club leader; H. E. Floyd, Topeka, secretary-treasurer of the Kansas State Livestock Association; W. I. Boone, vice-president of the Kansas Farm Bureau; candidates for state office; officials of the Skelly Oil Company, Cities Service Oil Company, Kansas Gas & Electric Company, Santa Fe Railway and Missouri Pacific Railway; mayors of Butler county towns, and newspaper men.

The new 4-H Club building, located on 3½ acres deeded to Butler county by the City of El Dorado, boasts a total of 14,000 square feet of floor space—an area considered adequate for any show or gathering which may be held there.

It is a two-in-one structure. The larger of the two—the arena—is 80 by 100 feet, the smaller 60 by 100. Six lines of tie rails have been installed in the arena, thus providing room for an estimated 90 to 100 animals at a single showing.

Tilt-up concrete construction over a steel frame was used by the contractor.

Idea of the building was born back in 1945 when officials of the El Dorado chamber of commerce started thinking in terms of a place in which Butler's rural youth could gather and demonstrate their work. The idea grew. The chamber of commerce took the lead and received wholehearted support of the Butler County Farm Bureau and the 4-H Club. Rural leaders were called in to determine the type of building best suited for the purpose.

A Step Toward Goal

Meetings and discussions followed until on October 7, 1946, the first major step toward the actual goal was taken. On that date the board of Butler county commissioners passed a resolution providing that an annual levy of one fifth of a mill be made on all taxable property in Butler county for a period of not to exceed 2 years.

The proposition was placed before the voters of the county and on November 5 of that year they voiced their approval of the plan by a vote of 4,423 to 3,867.

The fund created by the levy was estimated at \$25,000. More was needed. So the chamber of commerce inaugurated a solicitation campaign in which clubs, organizations and individuals joined. The campaign was a rousing success. Necessary funds were obtained and the contract was let on March 18, 1949.

Finally, on May 2, 1949, the long-cherished dream became a reality for on that day ground for the building was broken.

Work on the modern, spacious structure was started soon afterward and early this year the building was completed. It stands as a monument to county-wide co-operation.

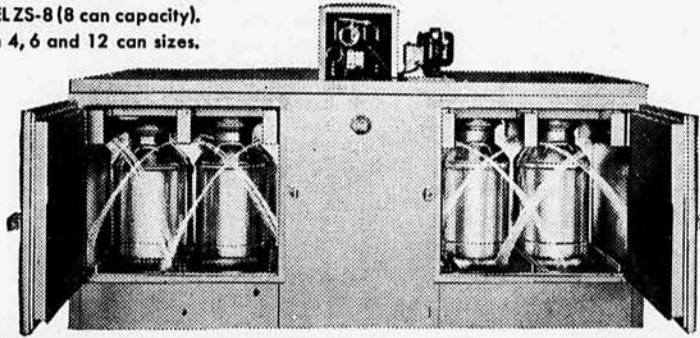
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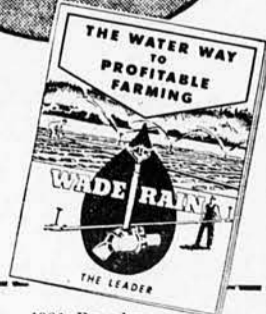
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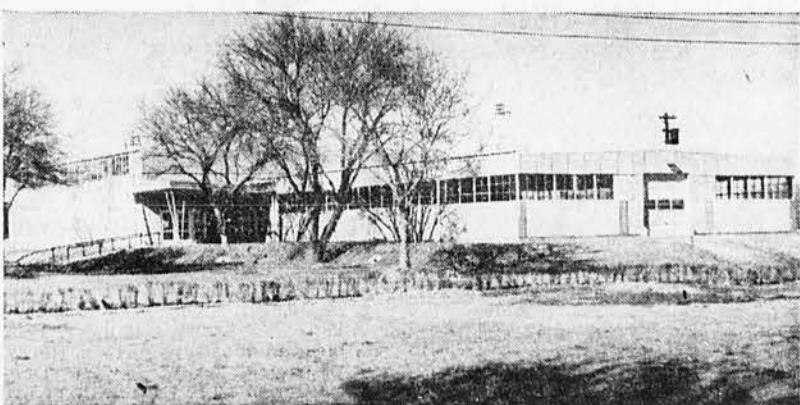


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SKELLY FARM NEWS

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Mother Nature has her own schemes for keeping things in balance. After nine good years, bad weather could cure our surplus food problems.

Or, three insects could do the trick—boll weevils, corn borers and grasshoppers. Already, the three are well on their way toward causing close to a billion dollars damage. If egg counts are made early and quick measures undertaken, the loss will be less. When billions of eggs are laid, keep an eye to the skies for borer moths; watch for hungry grasshoppers, too.

Working together, men can combat insect enemies with substantial effectiveness. This year, we may win our greatest victories over them and save much of the food we grow for humans.



HINTS for House and Garden

To keep tiny cracks from forming on the inside of new earthenware dishes, place them in a pan of cold water. Then, bring the water slowly to a boil and let it boil for a minute or two.

A small button, sewn inside each cuff of men's pants, will strike the shoes and thus prevent cuffs from wearing out.

For bigger flowers, work in commercial fertilizer around the new peony shoots—about 1/2 lb. for each 6 square feet.

Make your gladiolus display last longer! Don't plant them all at once. Delay a week or two between successive plantings, and you'll have flowers throughout summer and into fall.

To remove dried mud spots from clothing, slip a thimble on your finger and rub briskly. Follow with a thorough brushing.



Save Equipment, Work, Money with Skelly Farm Lubricants!

You've no time now for costly delays or shut downs! Be safe, be sure, with SKELLY! Order your Skelly Tagolene Long-Life Greases, Fortified Tagolene and Supreme Motor Oils TODAY! Famous for protection and performance. MONEY-BACK GUARANTEED!



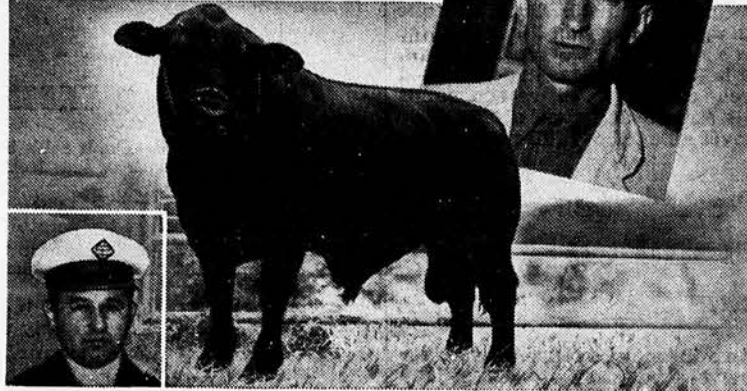
SKELLY OIL COMPANY

P. O. BOX 436, KANSAS CITY, MISSOURI



FROM A RANCHER WHO KNOWS—

"Best You Can Buy—Skelly Products and Brangus Cattle!"



Successful livestock breeder and satisfied Skelly user—that's Raymond Pope who operates Clear Creek Ranch, near Vinita, Oklahoma. His claims for the superiority of the Brangus cattle he's developing and the Skelly products he uses on the 20,000-acre ranch are based on long practical experience.

Brangus are a blend of purebred Brahman and purebred Aberdeen-Angus. A true Brangus is 3/8 Brahman and 5/8 Angus, and carries the outstanding characteristics of both. There has been a crying need for a breed that will not only suit the

rancher and farmer but also the feeder and packer. Raymond Pope, like other Brangus breeders, believes these cattle "fill the bill."

Last year, from a herd of 2,000, mostly progeny of the crosses in building the breed, over 300 Brangus bulls, like the husky grand champion above, went to 36 states for service.

Skelly Farm Serviceman Chuck Dirickson of Vinita keeps the ranch supplied with dependable quality Skelly products, and Raymond Pope credits Skelly for helping him run the ranch at a smooth pace.

IT'S V-6-M TIME!



FREE! CAR CARE Calendar for May

Packed with valuable car care hints for May! Yours for the asking at your nearest Skelly

service station. ASK FOR FREE TIRE SAFETY CHECK, TOO! Get in on the "Vital 6 Months" for your car with Skelly Now!

Your Skellyman says:



"Let me help you fight corn borers, boll weevils, grasshoppers and other crop-killing pests! My quality farm chemical line is complete, tested, reliable, includes all 2, 4-D compounds to insure thorough weed eradication. Place your SKELLY order NOW!"

Keep Informed! Tune in Lloyd Burlingham and Alex Dreier!

America's foremost farm authority and America's top-rated news analyst! Lloyd Burlingham every Saturday, Alex Dreier Mondays thru Fridays. NBC, 7:00 A.M.

See or call your Skelly Farm Service Man today!

Do You Lose Chicks?

By TOM AVERY
Kansas State College

DURING this season of year, every day brings samples of poultry feed to Kansas State College for chemical analysis. This is to detect poison or injurious properties of some form. In practically all cases, the feed has appeared wholesome as judged by appearance and odor, and in many instances the samples have been fed to chicks without serious loss.

In most cases death among chickens can be traced to causes other than from feed. If there is every indication the trouble has come from feed, one should discontinue it and apply the biological test; that is, give a few chicks the feed in question. The College is not equipped to make these tests, but anyone who suspects trouble from feed can make the test at home.

To Detect Poison

Most practical way to detect poison in feed consists of supplying the suspected feed to a small number of chicks known to be healthy, and carefully observe results for a week or 10 days. The chickens should be confined to a house or small pen so the feed under test is all they receive. If the birds show no ill effects, the feed is satisfactory. The College has conducted many of these tests, and in the last 20 years, only one case was found where feed actually contained poison.

People buying baby chicks usually purchase several weeks' supply of feed. Perhaps in a few days some chicks start dying, and in about 10 or 12 days quite heavy losses are occurring. Feed usually is the first thing blamed, so new feed is purchased and in a few days the losses may have decreased. The poultryman hastily concludes the original feed was responsible. This very likely was not the true picture at all!

Those who experience high mortality when chicks are from 1 to 2 weeks old can reasonably suspect pullorum disease (BWD) is present. When pullorum is present, mortality extends from about 4 to 14 days after hatching with greatest death rate between 9 and 12 days. If feed is changed near the peak of mortality, the decline in death rate is due to the nature of the disease and not to the new feed.

If a chemical analysis is desired to determine the nutritive value of a feed mixture, then a representative quart sample should be sent to the Agricultural Experiment Station chemist, Kansas State College, Manhattan, together with a letter stating what is wanted. The ordinary chemical analysis will show the amount of protein, carbohydrates, fat, fiber, and dry matter in a sample of feed, but it will not reveal the presence of a poisonous material, smut, or mustiness of any kind.

Is Feed to Blame?

Feed may be blamed for slow, uneven growth when actually poor management is responsible. Giving chickens the proper start is very important. Some requirements that must be provided for, if success is to be attained, are proper temperature, adequate ventilation, control of moisture, sanitation, and above all, adequate space.

Control of temperature, which provides sufficient heat in cold weather and minimizes excess summer temperature, is essential for success in growing chicks. Chickens will not be overheated if they can get away from high temperatures. A much higher per cent of chick mortality is caused by improper heating than by feeding poison feeds.

Improper ventilation of the brooder
(Continued on Page 15)

Garden Bulletins

There may be information in these Kansas State College Extension bulletins which you are seeking. Kansas Farmer Bulletin Service can have sent to you the ones you request:

Cabbage Diseases, Their Control.
Strawberries—the Aristocrat of Kansas Fruits.
Garden Insect Calendar.
Farm Garden Irrigation (No. 158).

house may cause birds to be stunted and show a general unthrifty condition. This condition is most likely to occur in tightly-closed brooder houses. Even a .01 per cent of carbon monoxide in the room will cause slow poisoning of the chicks.

Humidity in the average poultry house is not a big factor so long as the floor is kept dry. Experiments have shown relative humidity in the brooder can vary from 30 to 75 per cent without affecting growth of the chick.

Sanitation is essential for success in rearing chickens. Losses from disease and parasites can be largely prevented by proper sanitary measures. To carry out a sanitary program which will prevent exposure of chicks to disease organisms and parasites implies a clean environment. This means the brooder house, range and all equipment shall be clean and relatively free from organisms which cause chick diseases and infections.

Overcrowding is a common practice that causes slow growth and heavy mortality. One-half square foot of floor space should be provided for each chick on the brooder-house floor. Various experiments have shown a very definite correlation between amount of space and chick mortality. There is much truth in the statement that if too many

chickens are placed in the brooder house or laying house, overcrowding will cause sufficient numbers to die so the proper number will remain.

Chickens sometimes are poisoned by eating something other than what is in the feed. Young chicks are not infrequently poisoned by eating small beetles known as rose chafers, rose beetles, or rose bugs. Chickens up to 10 weeks old, and occasionally older, as well as young turkeys, are susceptible. Mature fowls do not seem to be affected. In localities where the bugs occur, they are found on such plants as roses, daisies, grapevines, and on certain ornamental shrubs. They also may be found on apple, peach, cherry and birch trees. Chickens are very fond of this insect and will hunt them out vigorously. Affected birds first show a drowsiness and drooping wings and stand with eyes closed. Birds usually die in from 5 to 24 hours. Treatment is of little avail.

Several mineral salts used for various purposes about the farm are capable of causing poisoning. Chief among these are common salt, if fed in sufficient quantities; lead, zinc, arsenic and copper. As treatment is of little value, care should be taken to prevent all poultry flocks from coming in contact with such poisons.

Have you heard—?

Notes on New Products of Interest to Farmers and the Folks Who Make Them

WHAT'S NEW story from up in Iowa tells of an idea in tractor taillights, something that might help avoid night highway accidents involving tractors or vehicles being pulled. The Harlan Manufacturing Company, Inc., is manufacturing a "Twin-Lenz" arrangement which is nothing more than 2 lights mounted on a bracket. One, a red taillight, is permanent for the tractor. The other, a sealed-beam floodlight, is attached to 35 feet of cord wound around a spring-tension drum. The latter has a swing-over red lens to use when the light serves as a taillight on a towed vehicle, or it can be used as a trouble light or floodlight. The company does business in Harlan, Iowa.

A publication by Hercules Powder Company states, among other things, that there are 80,000 different kinds of insects in the United States. About 6,000 are known to be injurious to crops, fabrics, stored products, forests, wildlife, livestock and man.

Here's an item that may have a bearing on your home-heating problems. It's called a Convector Radiator, which is a compact, upright, heating unit that stands in a wall recess or flush against the wall, usually beneath a window. It is used either with hot water or steam systems and discharges the warmed air thru a grill as it draws the cooler floor air by natural convection. Each unit has its individual temperature control and can be installed in new homes or during remodeling or as replacements. This information comes to us from the Convector Manufacturers Association in Chicago.



We have received a photograph of the Kromer Hy-Row Self-Propelled Power Sprayer which was mentioned in this column a few weeks ago. It is manufactured by the O. W. Kromer Co., of Minneapolis.

California's ascendancy into the top rank among agricultural states is indicated by the increasing manufacture of agricultural implements in that state. The latest comes from the Mellen Manufacturing Company, of Los Angeles, concerning 2 new products—Mellen Single Bottom Automatic Two-Way Plow, and Mellen Double Bottom

Automatic Two-Way Plow. The designs are supposed to meet tough plowing conditions, hillsides, rocks, and dry adobe, and are constructed so the bottoms can be individually adjusted. Furthermore, 6 different sizes of plows can be made by using the same main frame.

An automatic mailbox signal has come to our attention, a device for any front-opening rural mailbox. The spring-action arrangement assertedly can be fastened to the box in 5 minutes or so and it assumes a vertical position whenever the door is pulled down. A catch on the door holds the flag horizontal until mail is placed in the box. Upon removing the mail, the flag is "re-cocked" by hand. Automatic Mailbox Company, Waukesha, Wis., is marketing the item.

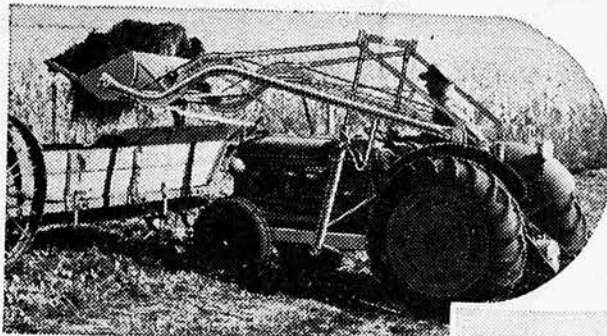
On the subject of metals and safety, Farmers Tool and Supply Company, of Denver, has cast a metal wheel block that has a red reflector to help warn traffic that a vehicle is in trouble. The block is built of aluminum, has a saw-tooth blocking surface and cleats that grip the road. Flying farmers may find them useful for chocking their planes and cars, trucks, tractors and wagons can be held by the device.

A new Willys distribution set-up in Kansas allots 89 of Kansas's 105 counties to Earl B. Moon, of Wichita. Henceforth, the entire line of Jeeps and Jeeps for this region will be handled thru the Moon organization. Two of the Moon farms near Wichita will be used as demonstration plots, and the 7,000 square feet of floor space in the city will accommodate complete parts and service for both retail and wholesale.

Information on a new, compact, deep-well turbine pump designed primarily for wells of 5- or 6-inch diameter has reached us. This small pump can be used either with or without a pressure tank and has a low operating speed—1,750 rpm. Full details and specifications may be obtained from Byron Jackson Company, P. O. Box 2017, Los Angeles 54, Calif. Ask for the Bee-Jay Bulletin.

Additional information on any product mentioned in this column can be obtained by writing directly to "Have You Heard," in care of Kansas Farmer, Topeka, Kan.

New...NEW...NEW...1950 Twin Draulic LOADERS..Farm Sprayers..Truck Dumps Save Work and Crops for Kansas Farmers

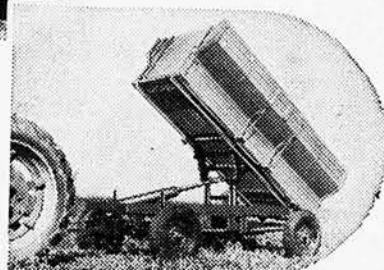


All Purpose LOADERS

TWIN DRAULIC Loaders fit 67 Tractor models (Row crop, 4 wheel, Ford, etc.). Lift more . . . faster . . . higher. Give balanced, adjustable—ratio, twin Hydraulic lifting. Fitted with manure bucket, snow shovel or scraper blade for dozer work. Thousands in use.

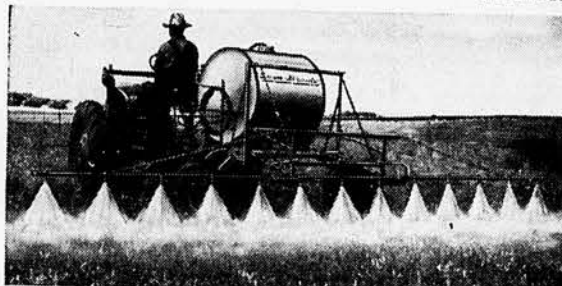
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FARM SPRAYERS

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Reinforced booms with copper tubing to give years of service. High pressure pump operated on power take-off. Non-corrosive tank. Drop extensions for spraying under corn. Twin Draulic Sprayers fit any tractor and every farm. Be ready to kill grasshoppers, cut worms, corn borers as well as weeds for bigger crops with a Twin Draulic Farm Sprayer.



See your Twin Draulic Dealer or write for pictures and low prices.

TWIN-DRAULIC, INC. . . . Laurens, Iowa

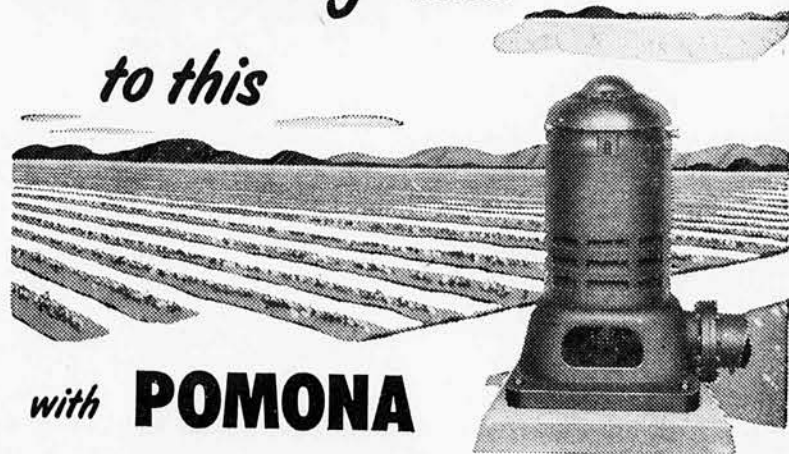
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Check your pump requirements with your Fairbanks-Morse Pomona Pump Dealer. Fairbanks, Morse & Co., Chicago 5, Illinois.



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The Time Is Ripe for

Jelly and Jam

By Florence McKinney

COME spring and it's the berries! Strawberries lead the berry parade and the only drawback to this delectable fruit is the short season. But right behind, trailing by only a few days come the raspberries and blackberries and cherries. Then there's rhubarb all the spring long to combine with other fruits. It's a comforting thought to the homemaker that much of the flavor and goodness can be preserved in the jar.

Strawberry Jam

4 cups prepared strawberries 6½ cups sugar (beet or cane)
1 box powdered pectin

Crush thoroly about 2 quarts of stemmed, fully ripe strawberries. Measure 4 cups of the fruit into a large kettle or saucepan. Measure sugar into a bowl and set aside. Place kettle containing fruit over high heat. Add powdered pectin and stir until mixture comes to a hard boil. Add sugar at once.

Bring to a full rolling boil and boil hard for 1 minute, stirring constantly. Remove from heat, skim, pour quickly into clean, hot glasses or jars. Paraffin at once, tipping the glass so that the melted paraffin runs up sides of glass, completely sealing out the air. A second coat of paraffin may be added after first has set, if it seems desirable.

Strawberry Jam Ice Cream

Jam and jelly may be used in desserts, frostings and toppings. Here is a smooth ice cream with fresh strawberry flavor.

2 teaspoons granulated gelatin 1 cup strawberry jam
¼ cup cold milk 2 tablespoons lemon juice
1¾ cups hot milk ¼ cup light cream

Place gelatin in bowl, add cold milk and mix well. Add hot milk and stir until gelatin is dissolved. Add remaining ingredients and mix until blended.

Turn into freezing tray and set for coldest freezing temperature. When partially frozen, remove from tray and beat with egg beater until fluffy and smooth. Return to tray and freeze 30 minutes longer. Stir. Then freeze until firm. Total freezing time 3 to 4 hours. Makes 5 cups.

Strawberry Turnovers

1½ cups cake flour ½ cup shortening
¼ teaspoon salt 2 tablespoons light cream
1 package cream cheese ¼ cup strawberry jam

Sift flour once, measure, add salt and sift again. Cream together shortening and cheese and add flour. Cut in shortening until pieces are about the size of small peas. Then add milk and blend. Roll out on lightly floured board to ¼-inch thickness. Cut with floured 3-inch round cutter.

Place 1 teaspoon strawberry jam on each round. Fold over into a half circle and press edges together with (Continued on Page 18)



It's here! Procter & Gamble's latest, great discovery!

NEW! PATENTED!

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WASHDAY MARVEL

SO GOOD you get the cleanest possible wash with the least possible work!

Years of research and experimenting in Procter & Gamble's laboratories led to the discovery of the newest clothes-washing marvel—CHEER.

CHEER was tested and tested—under all kinds of washing conditions. And the

job it did was *SO GOOD* it surpassed the highest expectations of its makers.

Now CHEER is ready for *you!* And Procter & Gamble promises that it will give you the cleanest possible wash with the least possible work.



SO GOOD it washes clothes cleaner in ONE wash than any soap will in TWO!

It's true! Laboratory tests prove that CHEER is *so good* it gets clothes cleaner in a *single* wash than any soap you ever used will in 2 washings!



SO GOOD you get a bright, clean wash even WITHOUT RINSING!

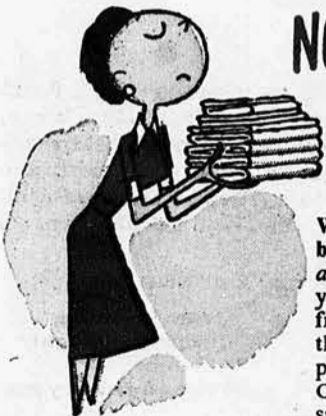
It's true! CHEER can give you a sweet, clean wash even without rinsing. Because CHEER *holds* dirt. So, when you wring out the suds—*away goes the dirt.*

You get the cleanest possible wash any "no rinse" suds can offer!

But if you *do* rinse, CHEER's your best bet for a cleaner wash than you'll get with any soap—any other type of washing product.



SO GOOD you get a snowy-white wash with NO BLEACHING! NO BLUING!



Without bleaching, without bluing—without help from *anything*—CHEER washes your white things clean as fresh snow. Your colored things look bright as new paint. Yet for all its power, CHEER is kind to hands, safe for washable colors.

SO GOOD you get a film-free wash even IN HARDEST WATER!



CHEER suds come up thick and fast in water so hard the best soaps known give up the ghost. Leave no sticky scum—in fact, CHEER removes the dulling film left on clothes by soap. You *never* need a water softener with CHEER!

SO GOOD you get a spanking-clean wash even WHEN HOT WATER RUNS LOW!



The *hotter* the water, the better the wash. But when the hot water runs low, CHEER won't let you down. Sturdy CHEER suds stand right up and go on fighting dirt and grease. *Whatever* the temperature, CHEER will give you a cleaner wash than any soap in the world!

Try cheer once...and you'll cheer forever!

CHEER is the trade-mark of a special all-purpose detergent made by PROCTER & GAMBLE in the U. S. A.

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RED STAR Special Active DRY YEAST IS FASTER DISSOLVING

QUICK METHOD BREAD

3 packages Red Star Dry Yeast
 3/4 cup warm water
 1/2 cup sugar

Dissolve 3 packages Red Star Dry Yeast in 3/4 cups warm water. Let stand 2 to 3 minutes. Place 1 1/2 cups sugar, salt and 3 1/4 cups water in a large bowl. Stir yeast solution thoroughly and add to this mixture. Stir yeast solution and beat well. Add melted and cooled shortening, stirring vigorously. Add remainder of flour, stirring until well mixed. Place dough on lightly floured board and knead 5 to 7 minutes. Shape into smooth ball and place in greased bowl. Brush top lightly with shortening. Cover and let rise in warm place for 45 minutes. Punch dough down; shape into loaves and place in greased pans. Brush tops of loaves lightly with shortening. Cover and let rise in warm place for 45 minutes. Bake in moderately hot oven (400° F.) for 50 minutes. Makes 4 loaves.

5 teaspoons salt
 3 1/4 cups lukewarm water
 11 1/2 cups sifted flour
 5 tablespoons shortening



KEEPS FRESH FOR MONTHS WITHOUT REFRIGERATION



RED STAR QUICK RISING DRY YEAST SPECIAL ACTIVE

MAKES ANY RECIPE TASTE BETTER

Yes, here are 3 of the many reasons why you should use Red Star special active Dry Yeast. Get acquainted with Red Star . . . try this tested recipe today. You will agree that Red Star Dry Yeast saves kitchen time in any recipe.

Jelly and Jam

(Continued from Page 16)

fork. Place on ungreased baking sheet and bake in moderate oven (375° F.) for about 15 minutes or until slightly browned. Makes 1 dozen crispy turnovers.

Rhubarb Conserve

3 pounds rhubarb	1 teaspoon salt
3 oranges	1/2 cup water
1 quart straw-berries or other berries	5 cups sugar (beet or cane)
	1/2 pound nut meats

Slice rhubarb and whole oranges. Add berries and water and salt. Cook until tender. Add sugar and nuts and cook until thick. Pour into clean, hot jars and cover with paraffin. Tip jars so that paraffin adheres to the sides of the jars.

Strawberry Preserves

"Cook for a short time" is the rule for good strawberry preserves. That's because heat destroys both the color and flavor of strawberries.

Wash and drain berries, then remove caps. To remove caps first, allows water to wash away juice and flavor. Pick out the smaller, less perfect berries to use for juice. Crush them and cook for about 3 minutes, stirring constantly. Strain thru fine sieve.

Now make a sirup of juice by adding sugar in this proportion: For each pound of choice prepared berries, allow 1/2 cup of the juice and 1 pound of sugar (beet or cane). Stir sugar into juice and continue to heat slowly until sugar is dissolved.

Then drop prepared berries into the sirup and simmer for 3 to 5 minutes. Next, boil rapidly for 10 to 15 minutes or until fruit is somewhat clear. Remove scum. Pour preserves into a glass or porcelain bowl and let stand for

about 8 hours or overnight. Without reheating, drain sirup from berries. Fill hot, sterilized jars 3/4 full of drained berries. Boil the sirup rapidly until fairly thick. Pour hot over berries. Seal and store in dark place.

Strawberry-Rhubarb Jelly

4 cups juice	8 cups sugar (beet or cane)
	1 bottle fruit pectin

Cut about 1 pound fully ripe rhubarb in 1-inch pieces and put thru the food chopper. Crush well or grind about 2 quarts fully ripe strawberries. Combine fruits, place in jelly bag and drain well. Measure sugar and juice into large saucepan and mix. Bring to a boil over hot fire and at once add pectin, stirring constantly. Then bring to a fully rolling boil and boil hard for 1/2 minute. Remove from fire, skim, pour quickly into clean, hot jars. Cover with paraffin being sure the paraffin adheres to sides of glass.

Cherry-Raspberry Jam

3 1/2 cups prepared fruit	6 1/2 cups sugar (beet or cane)
2 tablespoons lemon juice	1/2 bottle fruit pectin

Stem and pit about 1 pound fully ripe sweet cherries. Chop fine. Crush about 1 quart ripe raspberries. Combine fruits and measure 3 1/2 cups into a large saucepan. Add lemon juice. Add sugar to fruit and mix well. Place over high heat, bring to a full rolling boil and boil hard for 1 minute, stirring constantly. Remove from heat and at once stir in bottled fruit pectin. Then stir and skim for 5 minutes. This prevents floating fruit. Ladle quickly into clean, hot jars. Paraffin at once. Makes about 9 six-ounce glasses.

Tailoring Gives Satisfaction

Nemaha County Women Attend Class

ACCURACY is the key to a well-tailored garment," advised Ruth Bishop, home agent of Nemaha county, when she began the tailoring class. Now that the class is closing the members have learned the truth in those words.

Accuracy in tailoring calls for the use of size-100 thread for basting and a tiny needle, painstaking use of ruler, tailor's chalk, tailor's tacks, pressing aids and even a count of stitches in making buttonholes.

Of 12 women enrolled for the home demonstration class, all had done family sewing for years, but all found there were many new things to learn. In 4 weeks the class was in progress, the women let other homemaking duties slide. While tailoring proved exacting, they found they were rewarded for doing things the right way . . . from advice on how to "sew with the iron," to a tip on the simple job of threading a needle before cutting thread from spool to avoid snarls caused by threading needle with wrong end of thread.

It's a complicated business . . . this getting a suit to fit in the right places . . . and tho it wouldn't be fair to publish all the secrets, it's pretty well known a little padding in the right places, heightens eye appeal.

Tailoring slowed down to a snail's pace for such jobs as working up the loose ends, taking countless tiny padding stitches, applying binding, darts, zipper fastenings, buttonholes and pockets. An average of six 50-yard spools of thread went into each suit in addition to basting thread and tailor's tacks. But these were things that paid off in well-fitting suits. Anyone who became discouraged was almost shamed into action by the reminder that the county 4-H girls turn out tailored garments every year with no more instruction.

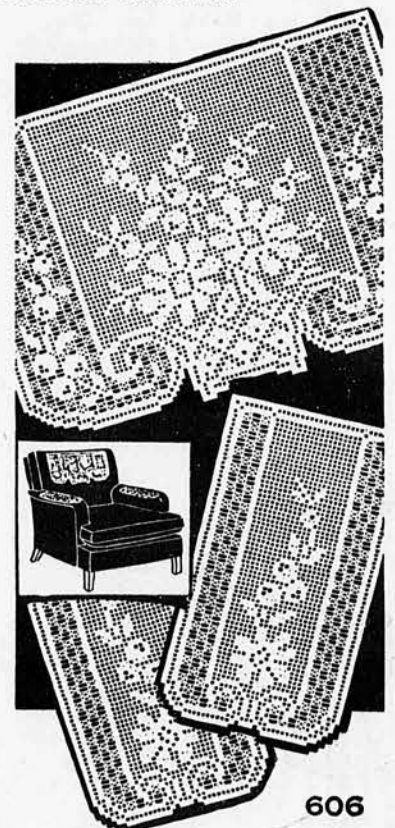
It took the Nemaha county women 6 weeks to complete the job. Most of the women were so pleased with the results they planned to take advantage of the spring sales and buy material to start a tailored fall suit or coat.

The farm women came from all over the county, traveling many miles to take advantage of the instruction. They were Mrs. Jess Clowe, Wetmore; Mrs. Francis Levret and Mrs. Ella Wilcox, Goff; Mrs. F. H. Swartz, Soldier; Mrs. Leonard Harden, Centralia; Mrs.

Francis Holthaus and Mrs. Allie Cocker, Baileyville; Mrs. Sam Payne, Sabetha; Mrs. Aloy Haverkamp, Mrs. Ben Holt-haus, Mrs. William L. McKnight and Mrs. Al Spielman, Seneca.

The suits and coats completed are valued at approximately \$750 . . . the satisfaction received, immeasurable.

Newest Crochet



Laura Wheeler

Right for your living room chairs. Or, if you prefer, use this filet-crochet threesome for decoration on your buffet. Double crochet and K-stitch make this handsome set. Charts and crochet directions.

Send 20 cents for pattern to the Needlework Editor, Kansas Farmer, Topeka.

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Sew For Summer

4785—A grown-up 2 piecer for Polly ... a sunfrock and then again a jumper with jacket for school. Sizes 2 to 8. Size 6 requires 2 3/4 yards of 35-inch material.



4785
SIZES
2-8

4768—Pretty casual dress with flattering sleeves, soft scallops and slimming lines. Sizes 34 to 50. Size 36 requires 3 3/4 yards of 39-inch material.



4768
SIZES
34-50



4518
SIZES
34-48

9306
SIZES
12-20
30-42



4833
SIZES
12-20
30-42

9306—Slim, smart and trimly tailored. Deep armholes, bloused bodice, pleated skirt. Sizes 12 to 20 and 30 to 42. Size 16 requires 3 3/4 yards of 39-inch material.

4833—Fine combination for town and country wear. Easy to make. Sizes 12 to 20 and 30 to 42. Size 16 sundress and bolero requires 4 3/4 yards of 35-inch material.

4652—Designed for the Miss, a smart snug belted top. Sizes 11 to 17. Size 13 ensemble requires 3 3/4 yards of 35-inch material.

9310—Back of this dress unbuttons for suntanning. It's easy to make. Sizes 12 to 20. Size 16 requires 4 3/4 yards of 35-inch material.



4652
SIZES
11-17



9310
SIZES
12-20

Send 25 cents for each pattern to the Fashion Editor, Kansas Farmer, Topeka.

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MILLION HOMES

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402 Livestock Exchange Bldg., Kansas City, Mo.

♦ **The Poet's Corner** ♦

Susan's Baby Sister

She's nicer than a Christmas doll
Oh, what a glad surprise!
I've a tiny baby sister
Who sleeps and laughs and cries!

Someday when she is big like me
She'll probably learn to talk,
Then we'll both hold to daddy's hands
And take a little walk.

Whenever she gets one year old
I think that I shall take
Some eggs and sugar and some flour
And make a birthday cake.

I'll spread pink frosting over it
And then before I stop
I'll put one birthday candle
On the very, very top!
—By Mary Holman Grimes.

Violets

Violets are the children's flowers:
Aroused by Springtime's first cool
showers,

They tuck their little toes into
lowly places
And shyly lift their fresh and shin-
ing faces

At the sweet, shrill cries of young
delight,

As small and eager hands fleece
such treasures bright

Young fancy turns to lovely jew-
els—white, gold and blue—

But most are of a softly purple
hue,

Blessed symbol of our gentle Sav-
iour's plea,

"Suffer little children to come
unto Me."
—By Harriette Hill.

For Mother's Day

Boys and girls remember this,
When you think of Mother's Day,
It's not the gift she holds in her hand
That makes her special day.

But the pride she has in the things you do
That are fine, sincere and right,
To help you win clean hearts and minds,
As God gives her strength and light.
—By Camilla Walch Wilson.

Paul

Kathy was the name I chose
For my daughter fair,
She to be my Irish rose
Green ribbons in her hair.

Doctor told me, "some surprise!"
"Twas a boy that came,
Hint of glee in father's eyes
Have to choose another name.

Dreams can change to fit demand,
Now I see him strong and tall,
Calmly took the case in hand
And named my darling baby, Paul.
—By Margaret Fenn.

Mother-Daughter Program

If you are planning a mother-
daughter banquet in your commu-
nity or club, you will like our new
leaflet, "Mother-Daughter Ban-
quet and Program." It includes the
entire evening's program, a play-
let, invocation, welcome and re-
sponse and benediction. A menu is
added.

To get this leaflet send 5 cents to
the Farm Service Editor, Kansas
Farmer, Topeka.

No Flint in Flint Hills

Eastern Kansas is crossed from north to south by many eastward-facing limestone ridges. The rock strata dip gently to the west and where the relatively hard limestones outcrop a row of hills results. Typical of this are the so-called Flint Hills, but contrary to general opinion no flint is there.

Plant Something New

Don't get in a rut . . . at best don't stay there. Plant something in the garden that's new to you. Maybe it will be broccoli or Swiss chard or baby lima beans or even a table variety of soybeans. Broccoli will grow in anybody's garden and served buttered it's one of the finest of green vegetables. It's easy to grow, give each plant

woven of tiny glass rods. These 2 materials were found to be most resistant to both light and heat. Silk, nylon and plastics were the fabrics most weakened by light, and linen and nylon by heat. All fabrics including cotton, wool, acetate and viscose rayons were tested by the Bureau of Human Nutrition and Home Economics.

Both acetate rayon and glass fabrics retain their white color exceptionally well.

Let's Square Dance

You'll love our new booklet called, "Let's Square Dance." It gives background and history of calls, definition of terms and a list of available records. Send your order to the Farm Service Editor, Kansas Farmer, Topeka. Price 3 cents.

Rugs From Burlap

Nice scatter rugs may be woven of the lowly burlap feed bag. Rip, wash and dye the desired color, cut after dyeing in 1 1/4-inch strips and sew ends smoothly together as carpet rags are sewn. The more the strips ravel the fluffier the completed rug will be. I dyed my bags dark green and used dark-green carpet warp for weaving. A nice-size rug can be made from 4 1/4 or 5 burlap feed bags.—Mrs. C. S. K.

plenty of room, spray for worms and the crop will be enormous.

Green lima beans are still considered an aristocrat in the vegetable market but they will grow and produce well in your own garden. Chard, spinach, beet greens, mustard greens . . . one or more of these should find their way to everybody's table.

Then vary the menu with some of the wild greens such as dandelions. Cook all greens in as little water as possible, about 5 to 10 minutes. Never add soda. Top with butter, or bacon or ham fat, vinegar or lemon juice with hard-cooked egg slices.

Will Stand Wear

The most durable materials for curtains and draperies have been found to be acetate rayon and glass fabric. The latter is a comparatively new fabric

Alumni Banquet Program

To fill the many requests we receive for alumni banquet programs, we have prepared a leaflet which includes suggestions for the entire evening, a menu, the music, and a playlet entitled, "Ships on the Sea of Life." This party is planned for the alumni to give the senior class.

Your order will receive prompt attention. Write for "Ships on the Sea of Life" and enclose 5 cents for handling costs. Address your order to the Farm Service Editor, Kansas Farmer, Topeka.

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State Degree To 105 Kansans

ONE HUNDRED AND FIVE Future Farmers of America received the State Farmer degree May 1, at Manhattan, during the annual state FFA convention. These boys were selected by the state FFA executive committee from among 120 applicants.

Those selected for the State Farmer degree must have at least 2 years Vocational Agriculture instruction, have been FFA members at least 2 years, and have an "outstanding farm program" in operation, with earnings of \$250 deposited or invested. They also are judged on knowledge of parliamentary procedure, leadership, and scholarship.

About 1,500 Future Farmers, their advisers and coaches attended the 2-day convention and contest in agriculture and farm mechanics.

Those getting the State Farmer degrees, and the high schools they attend, are:

Robert Schmidt, Alma; Keith Graver, Altamont; Homer Lee Grimes, Dean Kurtz, Deryl Carswell, Alton; Earl Higley, Atwood; Arden Krohn, Belleville; DeWayne Black, Beloit; Fred Magley, Jr., Bird City; Herb Lee, Bonner Springs; Howard Eugene Bailey, Chanute; Richard Gartner, Coffeyville.

Ronald Lee Roy Frahm, John Eugene Stover, Colby; Robert Kimmel, Donnie Lewis, Keith Duane Burt, Concordia; George R. Yost, Burton Huiting, Downs; Duane W. Hawk, Albert Scott Hall, Dale Harvey Reece, Effingham; Bob Brant, El Dorado.

Raymond Van Sickle, Richard Mayes, Emporia; Jerry Meyer, Fairview; Norman Fitzsimmons, Fort Scott; Carl Leinweber, Jr., Frankfort; Robert R. Ball, Garden City; Russell Briney, Goodland; Darrell Clarke, Duane Stoskopf, Great Bend.

James R. Butler, Harveyville; Charles Robert Kinast, Haven; Major W. Gosser, Hays; LeRoy Jost, Marvin Ratzlaff, Hillsboro; Richard McLean, Howard; Dee Lane Follis, Richard E. Mowry, Bert Reed, Darrell W. Allen, Hoxie; Cornie Neufeld, Inman.

Ronald McDonald, Iola; Roy Sloan, William Charles Messenger, Kingman; David Henry Bieber, Donald Landis, Lawrence; Duane Doyle, Lebanon; William Piper, Don Scott, Manhattan; Stanley Clark, McPherson; Don Shelite, Elbert Wright, Medicine Lodge.

Harry Hedges, Shawnee Mission; Melvin Dean Braun, Ernest Dewain Cepner, Doyle Turner, Miltonvale; Fred Schmidt, Bob Allison, Minneapolis; Dean Stucky, Ronald Wedel, Moundridge; Robert Hand, Bruce Hukle, Mulvane; James Edmund Vetter, Norval D. Deschner, Keith Schirer, Newton.

William Deines, Oberlin; Marvin Gene Allen, Larry Haskin, John Louis Palmer, Dick Perdue, Olathe; Roger R. Bard, Osage City; Wayne Carlin, Osborne; Fred E. Hetrick, Ottawa; Damon Eugene Slyter, Paola.

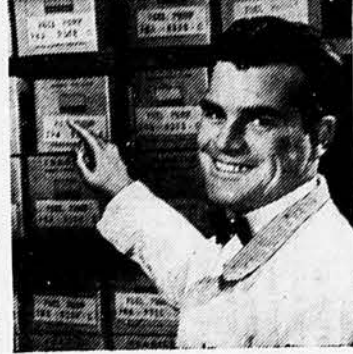
Howard Campbell, Billy Lowe, Powhattan; Jerry Schwartz, Milton Wendland, Arlo Peterson, Arnold Hedke, Robert Springer, Lyle W. Pfaff, Randolph; Eldon Aeschliman, Sabetha; James Gilbert, Simpson; Bill Overmiller, ElDean Holthus, Smith Center; Larry Watkins, Soldier; Richard Muir, Donald Bigge, Donald Odle, Stockton.

Harold Shetterly, Syracuse; R. J. Schultz, Valley Falls; Don Weixelman, Donald Schumacher, Wamego; Raymond Willbrant, Conrad Stewart, Washington; Walter Lewis, Hugh Schantz, Jay M. Wood, Don Drake, Winfield; Kermit Palmer, Washburn, Topeka; Gary Johnson, Highland Park, Topeka; Maurice D. Barr, Silver Lake.

How to Build a Pond

Properly planned and constructed farm ponds can be valuable assets to any farm. They can supply water for fire protection, orchard and garden spray, fish production, recreation, and waterfowl and other wildlife. A USDA leaflet, "How to Build a Farm Pond," No. 259, explains how to build and maintain a good farm pond, formed by an earthen dam. Anyone interested in having a copy of this bulletin may address Bulletin Service, Kansas Farmer, Topeka. There is no charge.

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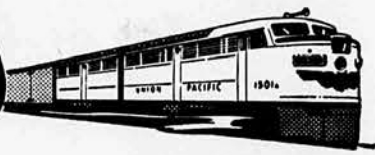
In all eleven states served by Union Pacific live employees and their families whose incomes help stimulate business in their home towns.

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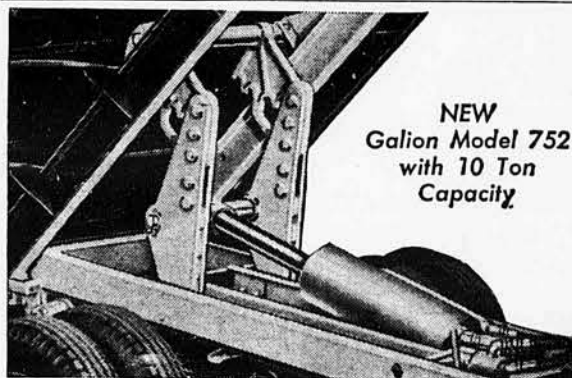
Community progress . . . new schools, hospitals, playgrounds, etc. . . also is aided materially by state and county taxes paid by the railroad.



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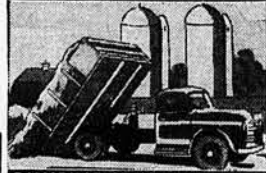
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Farmers Would Pay

(Continued from Page 6)

ers in this year's political campaign. Price-support levels could be parity, a percentage of parity, or the Brannan standard based on parity income rather than parity price.

Tentatively, the present method of supporting storable crops—loans and storage. For perishables, purchases for school lunches, for exports. Beyond that, direct payments covering the difference between national average price for the season, and the support price as determined for that season.

You Would Pay Premiums

To participate, farmers would (1) pay the premiums; (2) carry out the minimum soil-conservation program, including acreage or marketing allotments set by the Department. At the beginning of the calendar year each farmer desiring to participate would list his crops, and livestock production, multiply normal production by support level for each commodity, total his commodity results. Add together to get gross income expected, and give note to the proper government insurance agency for 5 per cent (or whatever per cent it might be) to cover his premiums. Adjustments to come at end of the year.

It may not sound that simple by the time details are worked out, but that is the basic idea. On its face the plan reminds one of the "equalization fee" of the McNary-Haugen bills of the Twenties. Except that McNary-Haugen would have applied only to exports of major crops. The proposed Cooley-Brannan insurance plan presumably will apply to all crops and livestock products, domestic as well as export.

Note that it also would bring in, not under too many wraps, the direct production payments of the present Brannan Plan, amounting to food subsidies for consumers on commodities allowed to reach market levels without regard to support levels.

Meanwhile the fighting over the Brannan Plan is growing in volume, velocity, and violence.

In the Kansas primary campaign for the Democrat nomination for U. S. Senator, Carl Rice has dug up the following paragraph from the "Task Force" report to the Hoover Commission (Page 76, Par. 2 under "reasons for recommendations"):

"2. Free market for perishables. The methods for supporting the price of perishable commodities, such as potatoes, put a double burden on the consumer. He is not only required to pay a high price for the product which he consumes, but he also pays, thru taxes, the cost of carrying on the price-support program. Under a plan which would permit a free market, greater quantities would be consumed as food, during periods of high production, thus reducing the quantities to be destroyed or diverted to other uses. While the cost of price support might be greater under this plan, the net cost to the economy would be less. The committee, therefore, recommends that consideration be given to a plan which would permit a free market, for perishable products, with the difference in price made up to the producer in supplemental payment."

"That," says Candidate Rice, "is the Brannan Plan, proposed by the Hoover committee in the first instance."

Didn't Mention One Thing

However, Candidate Rice failed to point out the recommendations of the Task Force committee:

"The committee feels the approach to price supports on agricultural commodities embodied in the Agricultural Act of 1948, wherein the mandatory support at the arbitrary, uniform level of 90 per cent of parity is changed to a formula for support levels that are related to the supply position of the respective commodities, represents a major step in the right direction."

(In other words, the "flexible price supports" which the 80th Congress approved, but which were rejected by the 81st (present) Congress in favor of continuing the wartime 90 per cent support for major commodities.) Continuing the recommendations:

"Accordingly it makes the following recommendations in respect to the price-support and commodity adjustment programs: (1) The effective date of the Agricultural Act of 1948 should not be deferred beyond January 1, 1950; (2) a free market should be provided

in handling perishable crops; and (3) the Secretary should be given wider discretion in the administration of the adjustment programs."

And the following comment:

"Mandatory support prices at 90 per cent of parity were justified during the war to encourage production. Their extension for a 2-year period following the war safeguarded farmers in readjustment of production. However, their extension for an additional year exposes the Government to large financial loss and needlessly postpones the adjustment of production."

The Hoover Commission recommended (but included the Task Force report as part of its findings) only the following:

"Recommendation No. 8: We recommend that Conservation payments to a farmer be restricted to those which will bring about the adoption of a complete and balanced conservation program.

"They should not be used as income supplements in disguise. When the conservation plan on any farm has been completed: such payments to the owner should stop.

"Adjustment programs: Conditions of imbalance in agricultural production are present in varying degrees and to varying extent in the nation. Adjustment programs should be ready to operate in the event of imbalance in either domestic or foreign demand for specific agricultural products. This should apply to surpluses as well as shortages."

On the other side of the Brannan Plan picture, Sen. George D. Aiken (Vt.) unleashed on the floor of the Senate a violent attack on Secretary Brannan for "hiring" some 5,000 PMA community committeemen to hear his argument at St. Paul in favor of the Brannan Plan, by paying them per diem, travel and subsistence allowances from Minnesota's soil-conservation funds. The meeting had been called for county committeemen to develop an agricultural conservation program for 1951. Brannan was to address them.

Inducements Were Offered

"Evidently it appeared to the sponsors of this conference that members of the county committee alone would not provide a sufficient audience," Senator Aiken told the Senate. "So, under date of March 16, a notice was sent to all the 5,000 community committeemen of the PMA. This notice, in effect, directed these 5,000 community committeemen to attend the meeting, to listen to the Secretary's speech. . . . Inducements were offered. . . . I quote from the notice:

"A travel allowance is being authorized for the community committeemen who attend the meeting. . . . If you drive your own car and are accompanied by one or more passengers, you may make a claim for 5 cents a mile. If you come either by bus or train, buy your ticket and get a receipt for it. . . . You will receive a regular day's pay for attending the meeting. For community committeemen who live some distance from the Twin Cities and require traveling time which would exceed 1 day, up to 2 days' salary will be authorized."

"What right the Department of Agriculture had to pay \$8 a day and expenses to 5,000 people to listen to the Secretary speak has not been explained," Senator Aiken added. "It is clear the cost must have been somewhere between \$50,000 and \$100,000. . . . About two thirds of his speech was devoted to promoting the so-called Brannan Plan, and the rest of it to condemnation of Allan Kline and the American Farm Bureau Federation."

Here is the latest plan from the Department of Agriculture to induce consumers to believe they are getting a higher standard of living, instead of a lower standard.

A new government meat-grading system is to be announced this month, figuring that by "upgrading" meats with fancier names more people will be tempted to buy. Under the new grading—

"Prime" cuts will include those now marked "prime" and "choice."

"Choice" will correspond to the present "good" grade.

"Good" beef will be the better cuts of what's now "commercial."

"Commercial" beef will be mostly the older, tougher animals (canners?).

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Wheat Growers Boost Bread

A KANSAN, H. W. Clutter, of Holcomb, was elected president of the National Association of Wheat Growers at the first national conference April 21-22 in Kansas City. Others elected are Jens Terjeson, Pendleton, Ore., vice-president; Kenneth Kendrick, Stratford, Tex., secretary; Herbert Hughes, Imperial, Neb., treasurer. Objectives of the newly-organized association are to promote and encourage interests of wheat growers in the United States, advancement and science of wheat growing, development of markets, new uses and improved strains for wheat and wheat products.

The 1951 annual meeting of the national association will be February 1, 2 and 3 in Dodge City.

Speakers at the Kansas City session included Congressman Clifford Hope, Ed J. Bell, administrator of the Oregon Wheat Commission; Morris Coover, Kinsley, farmer who conceived the idea of adding 16 per cent more flour to bread, and others.

Ten States Interested

About 100 wheat growers from Kansas, Colorado, Oklahoma, Nebraska, New Mexico, North Dakota, Oregon, Texas, Missouri, and Illinois attended the meeting.

"This organization represents an effort on the part of farmers to help themselves, as distinguished from too much dependence on government," Congressman Hope told the wheat growers. He predicted that out of the organization will come more efficient production and wider distribution of what he called "the world's most essential commodity."

Speaking of rising opposition to farm programs, the Congressman said, "It behooves the producers of wheat to give consideration to a program which will be self-supporting, and which will enable us to compete on the export markets."

Must Fight for Market

Mr. Bell brought an optimistic report on possibilities of wheat and flour exports to countries in the Far East, but warned the market will go to the country that will offer this food at competitive prices and that will trade with countries which buy our wheat and flour.

He emphasized this Far East market will not be at "give away" but at satisfactory prices to producers.

Bell returned in February from a 3-month tour of the Far East where he made a survey of market possibilities for United States grain and grain products, including grain sorghums.

Under present policies, Bell declared, this country's wheat producers are priced out of much of this market. He said a price differential of as little as 5 to 10 cents on a 50-pound sack of flour is a serious obstacle, especially when multiplied from 2 to 20 times in terms of local currencies.

Mr. Coover, the Kinsley businessman who is credited with starting the use of 16 per cent more flour in bread, reviewed the factors that caused him to develop the idea. He reported that many major bakeries are producing the bread with more wheat flour and that the public's reaction and acceptance of the bread is being watched carefully over the nation.

He said people who have tried the new bread like it so much better they are eating more bread. This, of course, he said, will add still further to wheat consumption.



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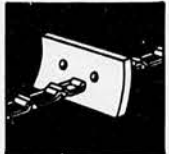
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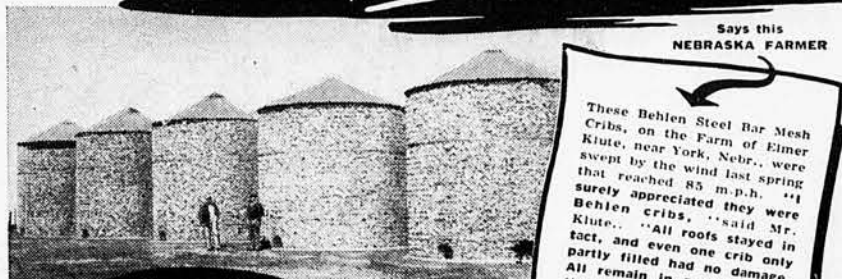
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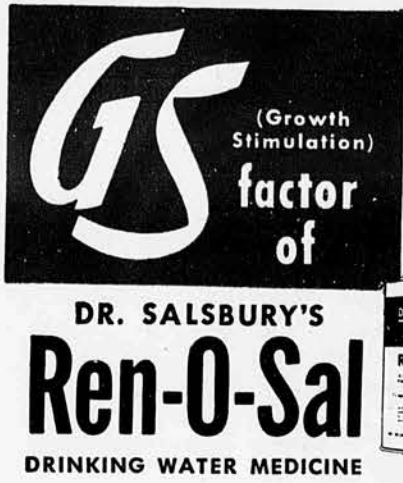
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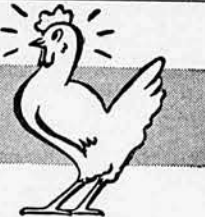
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Make Calves Gain More Hays Station Shows How

THE difference between a good beef sire and poor one is more meat with the same amount of feed. This was pointed out at the Hays Round-Up, April 29, when L. C. Aicher, superintendent of the Fort Hays Branch Experiment Station, reviewed experiments in breeding to determine influence of the sire on efficiency of feed utilization. This was the first year for the breeding experiment.

Five lots of cows and calves were used, with cows divided as near equal in quality as possible. A different sire was used for each lot. Average weaning weight of calves from the best sire was 564 pounds, and from the poorest sire, 470 pounds. This is an advantage for the good sire of 94 pounds additional weight per calf.

This advantage was maintained during the entire feeding and grazing experiment, Mr. Aicher said. When the calves were weighed out of lots onto pasture, the calves from the good sire weighed an average of 685 pounds, compared to 607 for those from the poor sire. Weight off pasture still found calves of the good sire ahead weighing 849 pounds compared to 768 pounds. Final weight for calves from the best sire was 1,290 pounds each, compared to 1,167 pounds for calves from the poor sire.

Thus, calves from the best sire increased their weaning-weight advantage to a total of 123 pounds at final weights.

123 Pounds More Meat

There was very little difference in average daily gain from birth weight to final weight for any calves in the 5 lots. Those from the top sire gained 1.52 pounds a day, while those from the poorest sire gained 1.40 pounds daily. Yet, when spread out over the entire period from birth to marketing, this slight edge due to using a good sire meant 123 pounds more meat on the same amount of feed.

The experiment shows some sires tend to sire calves that make better use of roughage, some sire calves that are early gainers but slow down later, while still other sires may produce calves that start slow but develop well later.

More work is needed, it was explained, before definite conclusions can be reached on comparative values of corn distillers' dried grains and sorghum distillers' dried grains, when used as protein supplements to ground grain sorghum and sorgo silage for fattening yearling steers.

Cattle getting corn distillers' dried grains gained 28 pounds a head more than those getting sorghum distillers' dried grains. Feeding period was November 15, 1949, to April 13, 1950, or

150 days. Steers in both lots received 31.6 pounds of silage daily, 14.6 pounds ground grain sorghum, .1 pound ground limestone and 4 pounds of corn or sorghum distillers' dried grain.

The small advantage for the corn distillers' dried grain, it was explained, could be because it was about 3 per cent higher in protein content.

It definitely pays to feed cottonseed cake on grass during the latter part of the grazing season, regardless of how light the pasture is being stocked, reported Frank B. Kessler, of the Hays station.

Mr. Kessler said in all pastures cattle began to lose weight after early October unless fed a supplement. Those given 1 1/2 pounds of cottonseed cake daily during the last 89 days of the grazing season gained 26 pounds a head more than those on light-grazed pasture without protein supplement, and they were valued at 25 cents a hundredweight higher.

Cattle fed cottonseed cake on grass gained 55 pounds a head more than those on moderately-grazed pasture without the supplement and were valued at 50 cents a hundredweight higher. Feeding the supplement during the last 89 days was the most profitable of all grazing experiments handled at the station during the past season.

Good Gain Plus Seed

Mr. Kessler was enthusiastic over results in pasturing intermediate wheat grass. A 45-acre field of this grass planted in April, 1948, produced 82 pounds of gain an acre in 49 days, starting May 13 and, in addition, produced 3,700 pounds of seed, he said. The grass had attained a height of 4 1/2 feet by July 1. After seed was harvested, the grass started greening up about August 20, and provided 3 days grazing for 126 cows in November.

Light grazing of native Buffalo grass pasture proved an advantage over either moderate or heavy grazing in the amount of gains and quality of carcass, it was explained. Cattle in the lightly-grazed pasture gained 89 pounds a head more than those in the heavily-grazed pasture and were valued at \$1 a hundredweight higher in the fall. On moderately-grazed pasture cattle gained 60 pounds more and were valued at 75 cents a hundredweight higher than those in the heavily-grazed pasture.

A. F. Swanson, cereal crops specialist at the station, told farmers they would be wise to grow less wheat and more grain sorghums provided they worked into a livestock program to utilize the sorghum grain. There is a possibility that from 15 to 20 per cent of our sorghum grains eventually will be used for commercial purposes.

GRANDMA . . . By Charles Kuhn



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Baldwin
Community

(Continued from Page 4)

chance to mix socially and get better acquainted. Later, square dancing was held somewhere in the community every Saturday night.

"We also found," continues Professor Kochan, "that in 1947 merchants were just beginning to be conscious of the need for soil conservation. We found, too, that Baldwin needed a hardware store as an added service to farm residents. We now have a good one."

What are the services any community should have to meet the needs of its town-country residents? Here they are, as listed by Professor Kochan: banks, farm equipment dealers who carry repair parts for implements, elevator, produce market, clothing and food stores, drug stores, good high school, good churches, good theater and other public social affairs, good special-interest groups having both town and country members, a well-organized recreational program including the interests of the entire community, good roads within the entire community so people can go where they wish when they want to go, a good telephone system, a good country newspaper, doctors and dentists, a school superintendent who sees the entire community problems rather than just the town problems, and ministers who have the same broad vision.

Churches Very Important

"In fact," says Professor Kochan, "church surveys have shown that ministers are key professional people. If churches do not enter into the general community program, they do not survive. Those that do grow and prosper."

Results of the 1947 survey were presented to the Commercial Club and most activities of the club since then have been based on survey findings.

Now, let's get down to the 1949 survey, which was a real eye-opener. "We found that nearly all evidence of friction between town and country and town and university had disappeared," reports Professor Kochan, "and for the following reasons:

"Since 1947 President Nelson P. Horn, of the university, had succeeded in making all facilities of the college available to the entire community. The gymnasium was opened without charge for square dancing, the swimming pool was used by public-school children during the school term and by everybody in the community during summer. The lighted athletic field was turned over to the high-school football and track events for less than actual expense costs. In these, and many other ways, the university had been demonstrating that it is part of the local community.

"It is no accident, either, that the attitude of students at the university has changed. When given a chance to come into close contact with farm people, students found they liked them very much. Farmers reported enthusiastically in 1949 that the students now were friendly."

Local Groups Changed

One thing the 1949 survey brought out was that more local groups now contained both town and country members. The 2 Methodist churches in Baldwin both reported increased farm membership. The Ives Chapel Methodist Church found the percentage of farm members had increased from one fifth of the total to one half, while the First Methodist Church reported that where only 18 farm families belonged in 1947, there were 75 in 1949. Both churches had added special events of interest to farm families.

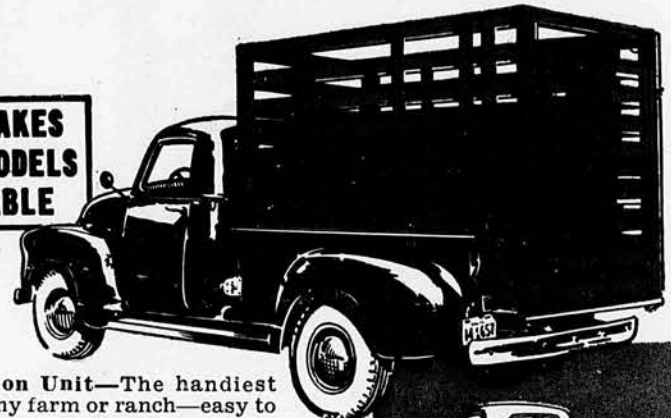
Jim Leitnaker, editor of the Baldwin Ledger, says he has changed his entire editorial outlook since the surveys were made public. He now runs more farm features on his front page, and recently added a complete farm page.

The Baldwin Commercial Club has become very farm-minded. The club has sponsored soil-conservation tours and plow-terracing demonstrations. Thru the Soil Conservation Service, the club obtained a complete soil map of the county and this is being used to educate both town and country residents on what the entire county soil problems are. "Farmers get a new slant on their soil problems when they see them in relation to the community's soil problems," says Professor Kochan.

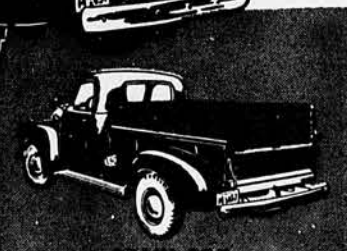
After both the 1947 and 1949 surveys
 (Continued on Page 27)

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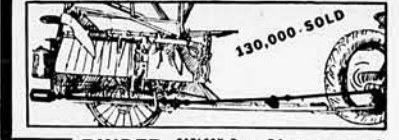


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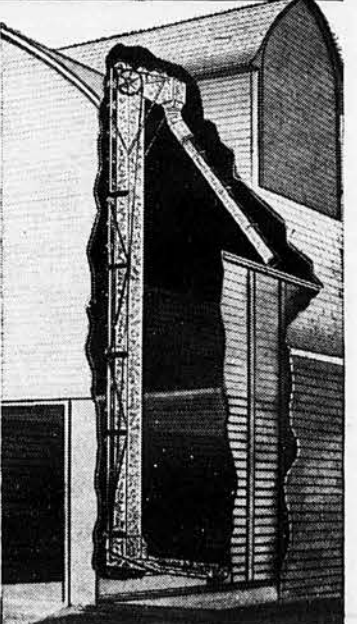
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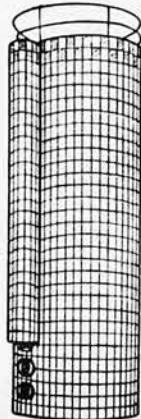
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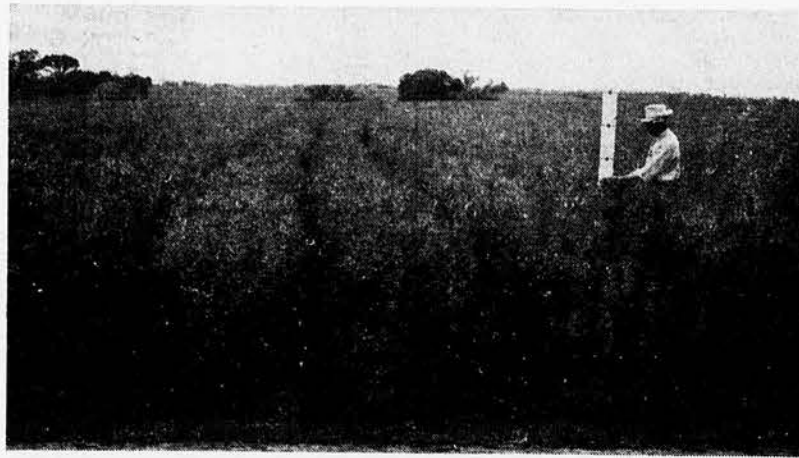
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Ups-and-Downs

(Continued from Page 5)



SWEET CLOVER, once considered a weed, now known to be a valuable crop. Here Madrid, an improved variety, is shown May 22, growing in rows planted the preceding August.

Merits of sweet clover became apparent slowly as a result of observations, largely of plants growing along the roadside and in fence rows. Then plantings were made which demonstrated clearly that sweet clover deserved to be ranked among the most valuable crops.

Two varieties of biennial sweet clover were found in Kansas: a large, moderately coarse variety with white blossoms, and a smaller, earlier, finer-stemmed variety with yellow blossoms.

To improve sweet clover a variety named Madrid was developed. Madrid is intermediate between the 2 former varieties in size of plant, coarseness of stems, time of blooming and tonnage of forage. Madrid is superior to either of the other varieties in being more leafy, in greater resistance of foliage to frost, and in more-rapid growth of young plants.

Sweet clover is often seeded with a small grain, particularly oats, and sometimes with flax. When conditions favor rank growth of the small grain the crop may become so dense as to damage the young sweet clover. This danger can be lessened by stopping every other drill hole and spacing the rows of oats twice as far apart as normal.

Higher yields of seed generally can be obtained by planting sweet clover about the middle of August in rows 30 inches apart. By this method light reaches both sides of the rows of clover and blossoms are produced nearly to the ground as well as over the top.

Investigations are being made in several states to develop varieties with low content of coumarin, the bitter substance which detracts from the palatability of sweet clover, and which has been found to be associated with other factors in the poisonous effect of damaged hay. If and when varieties without, or with low, coumarin content are developed, sweet clover will be even more desirable and more valuable than it is now.

Red and Alsike Clover

The story of legumes in Kansas would not be complete without reference to red clover which was important in Eastern Kansas from the time of earliest settlement. Altho red clover has been overshadowed somewhat by alfalfa and sweet clover, its value in Eastern, particularly Northeastern, Kansas should not be minimized. Rather, red clover should be looked upon as one of the best legumes for that region.

Alsike clover, which is of similar type, but somewhat more tolerant to wet soil and to acid conditions, is a valuable legume for Eastern Kansas.

White Clover

A small-growing clover known as common white clover came into Kansas and is widespread in pastures, lawns and along roadsides, thruout the eastern third of the state. It grows well in

mixture with Kentucky bluegrass and provides legume forage in many pastures.

Recently a larger, more productive strain of this type of clover has been developed known as Ladino. It appears less able to survive cold and drouth than common small white clover and for these reasons may not be well-suited in Kansas except perhaps along the east end. Possibly, however, harder strains of Ladino can be developed in the future and thus provide a valuable legume in permanent or long-time pastures.

Looking Ahead

Legumes have become increasingly valuable in Kansas during the last half century and present indications are that they will be of even greater value in the future.

There is reason to expect still other legumes well suited for growing in Kansas will be discovered in the future. The U. S. Department of Agriculture, in co-operation with the states, has recently intensified the search thruout the world for new crops.

Success of research to improve legumes in the past, indicates marked advances can confidently be expected in the future. The exact discoveries and improvements, of course, cannot be foreseen. But there is good reason to believe research will lead to benefits in the future as it has in the past.

Legumes May Go West

Possibly legumes can be found or developed which can be successfully grown farther west in Kansas than those we now have. Such discoveries would be of great importance in providing crops of superior feeding value in that section, and in stabilizing and making more permanent the agriculture of Kansas.

Success in developing Buffalo alfalfa, a variety resistant to wilt disease, gives us confidence to believe research will lead to discoveries of how to control other diseases and insect pests of the various crops as they appear.

New varieties of legume crops which will be better suited to the climate and soils in Kansas and more able to withstand adverse conditions, may be expected from the work in plant breeding.

Winterkilling losses of alfalfa have been greatly reduced and succeeding yields of hay are larger due to the discovery that alfalfa plants must have a fair amount of growth and green leaves during the fall. What discoveries in the future will lead to benefits of this kind cannot be predicted, but may be expected.

The future of legumes in Kansas can be viewed with confident optimism, provided there is continuous research to learn more about crop plants, and continued studies of how to apply that knowledge in the solution of problems as they appear.

Sea Covered Western Kansas

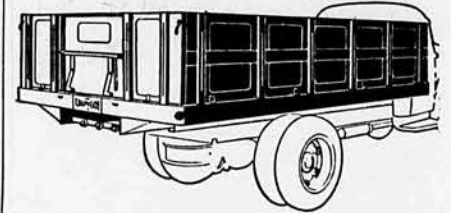
Millions of years ago, the present Gulf of Mexico extended over what are now the Rocky Mountain states, and at times connected with a southward extension of the Arctic ocean. The eastern shore of this sea lay in Eastern Kansas and Western Kansas was under water.

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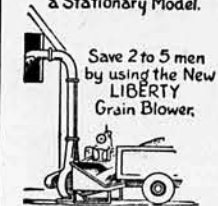
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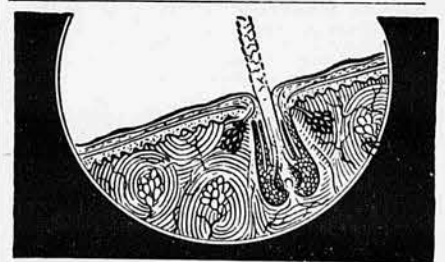
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Baldwin Community

(Continued from Page 25)

veys, Professor Kochan and his class recommended formation of a Town-Country Community Council to study the needs of the entire community and to make plans for meeting those needs.

This council now is a reality. It is sponsored by the Vinland Grange, with Herve Hoskinson, a farmer, as president; Mrs. Harvey Booth, wife of a Baldwin merchant, as vice-president; Jim Leitnaker, Baldwin Ledger editor, secretary, and Scott Morgan, rural-mail carrier, as treasurer.

The council is made up of representatives of special groups, such as Grange chapters, home demonstration units, Farm Bureau, the Commercial Club, Rotary Club, American Legion and Auxiliary, Garden Club, Baker University, and neighborhood clubs. All members of the executive committee, however, are members-at-large. When elected to the executive committee, these members cease to represent their special groups, but work for the benefit of the entire community. Professor Kochan is an ex-officio member of the executive committee.

"This thing is so big it scares me," says Herve Hoskinson, master of Vinland Grange and newly-elected president of the Community Council.

New Things Under Way

Mr. Hoskinson listed just a few things now under way or being considered.

"We farmers want to help Baldwin City make better use of its lake by making it a Town-Country center. We think the lake area could be used for a 4-H summer camp. We also want to work with members of the gun club in making the lake a wildlife project. There are so many things that need doing, our main job will be to pick the most essential and do those first. I would like to see a good Bang's disease control program started in the community."

Secretary Jim Leitnaker also is enthusiastic over the possibilities. "We hope to see a big change in farming practices due to the combined efforts of farmers and town folks. Our area is not too good for profitable grain farming, but is ideal for grass farming. We feel there is a big opportunity to expand production of certified grass and legume seed and to perfect an increased dairy program based on year-around pasturing. Naturally, farmers in the council understand this better than we town folks and will have to lead the way. Our job will be to encourage and help them in every way we can.

"Our job is really 3-fold," Mr. Leitnaker points out. "We must be looking for ways to increase income possibilities for farmers, ways to increase our services for farmers here in town, and for those things that will increase harmonious living for all. It will be a big job but one well worth the best efforts of everyone."

Health Gets Attention

Two community-health recommendations are being considered as a result of the community surveys. One is a local health clinic for public-health education but, more specifically, to control flies, bugs and other pests that threaten health and comfort of the community. Second is a community-health center that would include offices for local doctors and dentists, facilities for emergency medical and surgical work, a few beds for obstetrical care, some laboratory facilities, offices for the health department, and quarters for clinics as needed.

These are only a few of the things the awakened Baldwin Town-Country Community plans to do. Is Baldwin any different than other Kansas communities? We asked Professor Kochan that question. "No," he replied. "Of course," he adds, "each community may have some problems that differ from others, but each Town-Country Community can be determined thru studies and surveys and, once determined, all activities should be based on that Town-Country interest basis."

Virgil Reeves, Baldwin merchant and past president of the Baldwin Commercial Club, puts it this way: "We've got to stop thinking of town people and farm people as different. We are all just the same kind of folks, with common interests. Once we accept that fact and start working together, there is no limit to what we can do."

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I have some 600- to 700-pound, plain, white-faced steers I have wintered. Would this be a good time to sell them? —W. S.

Prices of stocker and feeder cattle probably are near a seasonal peak for this spring. Price advances since last fall amount to about \$4 a hundred-weight. In general, stocker and feeder prices are slightly above seasonal peaks reached a year ago this spring.

By late May some weakness may appear in stocker and feeder prices. Demand for cattle to place on grass probably will be diminishing before June 1. Seasonal price declines are expected during summer and early fall. If you are going to turn these cattle this spring or early summer, selling before late May would appear desirable.

If unfavorable growing conditions for winter wheat continue, what is the highest wheat prices could go? —A. M.

The Commodity Credit Corporation has offered to sell wheat during April at the applicable county loan rate plus 27 cents a bushel. Since CCC holds large stocks, its offer price will tend to set the ceiling above which the market price will not go. Declining crop prospects, of course, lend strength to the market, but it should be remembered supplies of wheat are still large and a squeeze forcing prices above the CCC offer is not likely.

What is the general price outlook for fruits and vegetables raised in 1950? —H. G.

Smaller production and higher prices seem likely for most deciduous fruit crops this year. With consumer demand for fresh fruit in 1950 nearly as good as in 1949, a somewhat stronger demand for fruit for processing, and a probable small increase in total exports, growers' prices for most of this year fruits can be expected to average a little higher than in 1949.

This year is expected to be slightly less favorable for vegetable growers than last year. Altho prices received by farmers in general are expected to fall only slightly from 1949 levels, these declines are likely to be larger than any declines in farmers' cost of production.

Winners at Hays

MORE than 2,100 Vocational Agriculture and 4-H Club members competed for honors April 28 in the Fort Hays Branch Experiment Station judging contest, at Hays. High teams and individual winners in various judging events were as follows:

Grain Judging

VOCATIONAL AGRICULTURE: Coldwater, 1st; Belleville, 2nd, and Smith Center, 3rd. High individuals were Curtis Lohrding, Coldwater, 1st; Bud Honzlick, Belleville, 2nd, and Alvin Kindsvater, Coldwater, 3rd.

4-H CLUBS: Sumner 4-H Club, Osborne county, 1st; Solomon Valley 4-H Club, Cloud county, 2nd, and Wise Owl 4-H Club, Graham county, 3rd. High individuals were Deryl Carswell, Sumner, 1st; Willis Brandyberry, Wise Owl, 2nd, and Gene Wealand, Solomon Valley, 3rd.

Livestock Judging

VOCATIONAL AGRICULTURE: Alton high school, 1st; Osborne high school, 2nd, and St. Francis high school, 3rd. High individuals were Elmer Boland, Alton, 1st; Garth Renken, Lebanon, 2nd, and Eugene Peterman, Ellsworth, 3rd.

4-H CLUBS: Grant Boosters 4-H Club, Sherman county, 1st; Sumner 4-H Club, Osborne county, 2nd; Country Pals 4-H Club, Rice county, 3rd. High individuals were Dale Light, Grant Boosters, 1st; Merlin Grimes, Sumner, 2nd, and Marion Campbell, Grant Eagles, Norton county 4-H Club, 3rd.

4-H Home Economics

Timken Roller Bearings 4-H Club, Rush county, 1st; Mt. Labor 4-H Club, Saline county, 2nd; West Paradise 4-H Club, Rooks county, 3rd. High individuals were Shelley Markle, Lyons Conquerers, Rice county, 1st; Barbara Jan Pivonka, Timken Roller Bearings, 2nd, and Clione Beckwith, Pawnee Peppers, Pawnee county, 3rd.

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Strawberry Plants—Certified Dunlap, Blakemore and Aroma, 100—\$1.00; 500—\$4.50; 1,000—\$8.50; 5,000—\$40.00. Giant Robinson, 100—\$1.25; 500—\$5.50; 1,000—\$10.50; 5,000—\$45.00. Everbearing Strawberries large, thrifty plants will bear this year—Mastodon, Gem and Gemzeta, 25—\$1.00; 100—\$2.50; 200—\$4.50; 500—\$10.00; 1,000—\$17.50. 12 Large Rhubarb, \$1.00. 25 Martha Washington asparagus, \$1.00; 100—\$3.00. Special Offer—100 Dunlap and 50 Gem everbearing, \$2.00. Everything postpaid. Labeled true to name, full count and satisfaction guaranteed. Folder free. Ideal Fruit Farm, Stillwell, Okla.

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Strawberry Plants—Hardy northern grown, double inspected Dunlap, Beaver, Blakemore 200—\$2.00; 500—\$4.50; 1,000—\$8.50. Premier, Bellmar, Giant Robinson 200—\$2.50; 500—\$5.75; 1,000—\$11.00. Giant Gem, Streamliner, Minnesota 1186 everbearing, 100—\$2.25; 500—\$10.00. Fresh plants, prompt shipment. Everything postpaid. Iowa Nursery, Farmington, Ia.

Send No Money—Pay on arrival—certified plants. Fresh Cabbage, Onions, Tomatoes, Pepper, Broccoli, Brussel Sprouts, Eggplants, Cauliflower, 200—\$1.00; 500—\$1.50; 700—\$2.00; 1,000—\$2.50; 5,000—\$10.00. Sweet Potatoes, \$3.00 per thousand. Leading varieties, mixed anyway wanted, mosspacked. Texas Plant Farms, Dept. K, Jacksonville, Texas.

Home Orchard Collection—6 apple, 6 peach, 1 cherry, 1 pear, 1 plum and 5 grapes. Best varieties, adapted to your section, all 2-year best grade trees, well branched, 4 to 5 feet high \$7.95 postpaid to your mailbox. Planting directions and price list free. Ideal Fruit Farm, Stillwell, Okla.

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For Big Yields use quality potato plants—Nancy Halls or Porto Ricans. Prices for May and June. 100—40c; 200—75c; 300—\$1.00; 500—\$1.50; 1,000—\$2.50; 5,000—\$12.00. Prompt delivery. Shipped C.O.D. Pleasant Hill Farms, Route 1, Martin, Tenn.

Plants: Potatoes—Portoricans, Nancyhalls, Redvelvet, Bunch Portoricans, Tomatoes—(Certified Seed)—Rutgers, Cabbage—Dutch, 500—\$1.65; 1,000—\$3.00; 3,000—\$8.20. Postpaid. Satisfaction guaranteed. Bruce Rhodes, Malvern, Ark.

State Inspected Plants, Sweet Potato: Red Velvet, Portorico, Nancy Hall or Golden Belle. Tomato: Rutgers, Cabbage: Jersey, Dutch, Marlon Market, 100—50c; 500—\$1.75; 1,000—\$2.75. Prepaid. Thos. F. Reid, Russellville, Ark.

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Sweet Potato Plants—Nancy Halls, Portoricans. Guaranteed honest count, prompt shipment, 300—75c; 500—\$1.25; 1,000—\$2.25; 5,000—\$10.00. Established 1915. Ward Plant Co., Gleason, Tennessee.

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Gladiolus, 120 giant exhibition varieties. Majestic Lilies. Giant Dahlias, Cannas, Iris. Money saving specials. Free catalog. Foley Gardens, Freeport, Ill.

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For Sale—Sumac Cane seed. Germination 84%. Purity 96.6%. Frank Howard, Oakley, Kan.

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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 5x7 enlargements for 50c. Four 8x10 for \$1.00. Your favorite photo copied and 10 billfold pictures 65c.

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Free New Roll film free, sizes 127-120-620-116-616. 8 Jumbo enlarged prints with roll developed 35c. Free Roll Co., River Grove, Ill.

10c Package of 100 mounting corners free. Roll developed and 8 oversize Jumbo prints 35c. National Finishers, River Grove, Ill.

8-Exposure Roll developed with 16 prints, 30c. Studio, Lake Geneva, Wis.

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We want broilers, springs. Coops loaned free. The Copes, Topeka.

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Agents Wanted: Make money and satisfied customers. Buy, sell and install Lightning Rods. Millions of farm buildings now protected. Write for agents proposition. Reliance Company, Box 530, Sycamore, Ill.

OF INTEREST TO WOMEN

Outdoor Toilets, Cesspools, Septic Tanks cleaned, deodorized with amazing new product. Just mix dry powder with water; pour into toilet. Safe, no poisons. Save digging and pumping costs. Postcard brings free details. Burson Laboratories, Dept. V-18, 955 Willard Ct., Chicago 22, Ill.

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Hand-Crocheted Infant Booties. Write, pink, blue. 75c a pair. Mrs. C. E. Swank, Atwood, Kan.

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Own a Farm in the agricultural center of the United States. Write for new 1950 catalog describing many productive farms. Suiter Farm Company, Realtors, 1016 Baltimore, Kansas City, Mo.

1995 Acres ElPaso county, Colorado. Three improvements. Smooth land. 680 acres under cultivation. 640 acres leased grass land. RFD. REA. Price \$39,900. Terms. Louis Miller, Frankfort, Ind.

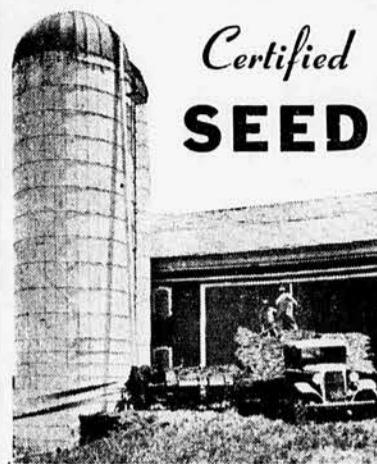
Strout's Farm Catalog Free! Big Golden Anniversary issue. 124 pages, 2,830 bargains. 32 states. Coast-to-Coast Strout's Farm, 20 West 9th St., Kansas City 6, Mo.

New Free Summer Catalog, farm bargains. Many new, equipped, illustrated, several states! United Farm Agency, 428-KF, BMA Bldg., Kansas City 8, Mo.

KANSAS CERTIFIED SEED

PLANT KANSAS

Certified SEED



Whether you fill the silo or grain bin, Kansas Certified Sorghums are best fitted to do the job. Only fields planted with certified seed of adapted varieties are inspected for certification. Trained impartial inspectors check each field for isolation, varietal purity and freedom from noxious weeds. Later, representative samples are submitted for analysis by the State Seed Laboratory. Seed that successfully meets all certification requirements may exhibit the blue "certified seed" tag and association seal.

CERTIFIED SEED DOESN'T COST IT PAYS.

The Kansas Crop Improvement Ass'n MANHATTAN, KANSAS

KANSAS CERTIFIED HYBRIDS

Highest average yielding hybrids in Kansas again in 1949. (Yellow) K 1784, K 1855, K 1639. U S 13. (White) K 2234, K 2299. Carefully graded, treated.

CARL BILLMAN, Holton, Kansas

Certified Midland Milo grown from seed of hand picked heads and seed bought from Fort Hays Experiment Station. Germination 93%. \$6.00 cwt. FOB Peabody, Barton Ullsh, Route 3, Peabody, Kan.

For Sale: Certified Atlas Sorgo seed and Pride of Saline corn. Agronomy Department, Kansas State College, Manhattan, Kan.

Certified Atlas Sorgo, 800 bags, germination 89%. \$5.00 per 100 lbs. in quantities only. George Wierenga, Cawker City, Kan.

Certified U.S.13, K1784, K1646, Kansas Red Clover. Harold Staadt Seed Farm, Ottawa, Kan.

Certified Westland Milo, 92% germination. \$4.00 cwt. FOB Larned, Kan. Keith E. Gore.

Buffalo Alfalfa Registered Seed. Ninety cents per pound. Earl Collins, Florence, Kan.

FARMS—KANSAS

Immediate income from tractor equipped 120 acres, only \$10,700. electric lighted, high producing farm, 4 miles high school town, rock road, mail, milk routes, phone, 55 cultivation, balance pasture, meadow, 7-room house, electricity, water indoors; 38x16 barn, electricity, other buildings, owner includes 7 milk cows, bull, 5 calves, team, 150 hens, Farmall, plow drill, rack wagon, hay tools; springs crops, 30 day possession, free farm list. Peterson Realty, Osage City, Kan.

I Have a Good 153-acre farm, all in cultivation, no buildings, hedge around it, located 17 miles southeast Emporia. Paying good rent. First and second bottom good black land lying well. Will sell or trade for land Central Kansas. J. P. Malone, 116 N. Douglas, Lyons, Kan.

OF INTEREST TO ALL

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

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

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May 20 Will Be Our Next Issue

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

Friday, May 12

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

CHOLERA SEASON IS NOW HERE

ARE YOUR HOGS VACCINATED?

Don't take chances on hog cholera wiping out YOUR herd. Have your hogs vaccinated NOW—Tomorrow may be too late.

CONSULT YOUR VETERINARIAN

His training and experience are your best assurance of proper immunization for dependable safety.

This message sponsored by ASSOCIATED SERUM PRODUCERS, INC.

Come to Southwest Iowa for "TOPS" in ABERDEEN-ANGUS



Our May 16th Sale

Features the get and service of our great breeding bull Homeplace Eileenmere 26th. He is an outstanding individual and one best breeding son of Eileenmere 487th. (The great Penney & James bull, Hamilton, Mo.)

Sale at Farm Just West of Maloy, Ia.

(Maloy is 90 miles northeast of St. Joseph, Mo.)
10 BULLS WILL BE OFFERED. 2 show sons of Homeplace Eileenmere 26th, a son of the \$20,000 Eileenmere 999th—Should head a top herd. 5 sons of Eileenmere of Marycrest, the senior sire, he by Eileenmere 487th. 2 bulls by a grandson of Black Prince of Sunbeam. 8 of these bulls are grandsons of Eileenmere 487th.

KILEEMERE 487th 668743
 look like big time timber. 10 daughters of Eileenmere of Marycrest, 6 of them bred to Homeplace Eileenmere 26th; 1 daughter of Eileenmere 487th, 14 granddaughters of Eileenmere 487th; and 1 daughter of Eileenmere 649th. There will be 8 open heifers, 7 of them granddaughters of Eileenmere 487th. 27 of the females will be bred to Homeplace Eileenmere 26th, and several will have calves at side by him and rebred. 7 bred to Eileenmere of Marycrest.

IN THE FEMALE OFFERING WILL BE 48 HEAD. 3 daughters of Homeplace Eileenmere 26th, direct from the show herd. They are: Eileenmere 26th, Eileenmere 26th, Eileenmere 26th. 1 daughter of Eileenmere 487th, 14 granddaughters of Eileenmere 487th; and 1 daughter of Eileenmere 649th. There will be 8 open heifers, 7 of them granddaughters of Eileenmere 487th. 27 of the females will be bred to Homeplace Eileenmere 26th, and several will have calves at side by him and rebred. 7 bred to Eileenmere of Marycrest.

THE FAMILIES REPRESENTED are 1 Blackcap Bessie, 2 Ballindaloch Georgina's, 4 Juana Erica's, 7 Maid of Bumpers, 1 Chimera, 5 Bandy Maid Miss Burgess, 1 Missouri Barbara, 1 Blackcap Empress, 1 imported Mulben Pride and several representatives of the Blackcap and Erica families. This is the heaviest concentration of the powerful blood of the "Wonder Bull," Eileenmere 487th, other than its source!

MARYCREST FARMS, MALOY, IOWA
 John D. and Mary Warin, Owners, Maloy, Ia. Howard Jackson, Herdsman
 For sale catalog write to the owners or
 J. B. McCORKLE, Sales Manager, 3710 A.I.U. Bldg., 40 West Broad St., Columbus, Ohio.
 Auctioneers—Roy Johnston and Ray Sims
 NOTE—El Jon Angus Sale, Rose Hill, Iowa, on May 15.

BANBURY'S POLLED SHORTHORNS

Note—"Cherry Hill Herd" lead all herds at the Chicago International Show. Our herd sires—Cherry Hill Hallmark and Nonpareil Hallmark 3d—new blood and of the best.

Males and females—Some of the choicest of the herd for sale. Over 100 in herd officially vaccinated. Farm—22 miles west and 6 mi. south of Hutchinson, Kan.

J. C. BANBURY & SONS, Plevna, Kansas



CHERRY HILL HALLMARK

HOGS

Farmers Opportunity Sale of DUROCS Mon., May 22, 1:30 P.M.

at the Chamber of Commerce Sales Pavilion South St. Joseph, Mo.

30 Bred Gilts and 5 Fall Boars

You can buy these Bred Gilts for the price of Open Gilts. They are due to farrow in June, July and August. All are safely settled. They are bred to "The 49er" the 1949 Nebraska Junior Champion, and to "New Idea" a grandson of the \$3,000 Star Blend. The fall boars are by "Modern Trend" and other boars that give outcross blood. Offering cholera immune. For sale catalog write to Earl Martin & Son, DeKalb, Mo. Auctioneer—Bert Powell, Topeka, Kan.

EXCELLENT DUROC BOARS

Sired by Super-Spotlight, Lo Thickmaster, Perfect Trend, and Crusader Ace. These are 4 to 12 months old, heavy hammed, low built, real feeding quality and will improve your herd. Registered, immune real quality Durocs, nice red color. They please. Prices reasonable. Write, phone or come. New blood for old customers. Durocs only since 1904. G. M. SHEPHERD, Lyons, Kansas

SPOTTED POLAND Fall Boars and Gilts

Quality suitable for herd improvement or foundation stock.

CARL BILLMAN, Holton, Kansas

Reliable Advertisers Only are accepted in Kansas Farmer

HOGS

DUROC CHAMPION BRED GILTS

Bred to champion bred boars by Royal Fleetline 1st and He'll Do's Model, for last half of March and April 1st farrowing. Also splendid September pigs. One very outstanding serviceable boar. B. M. HOOK & SON, Silver Lake, Kansas

HAVEN HOLLOW FARM DUROCS

Husky Fall Boars and Gilts by MODEL PROMOTER and STAR KING Registered, immune and guaranteed. G. F. GERMAN & SON, Manhattan, Kan.

DUROC FALL BOARS, son of Fancy King by LoDown Fancy and Hillside Star a grandson of both Red Star and Crown Prince. Smooth, dark red, heavy boned boars that will suit you. Leslie A. Stewart, Americus, Kansas

Reg. Spotted Polands

Fall boars. Bred gilts. Extra good. New bloodlines. SUNNYBROOK FARM, RICHLAND, KANSAS H. E. HOLLIDAY

REGISTERED SPOTTED POLANDS

Fall Boars by son of Big Chief and a son of champion of 3 state fairs, Midway Special. Also plenty great spring pigs. Special prices for 4-H projects. Come and see them. EARL J. FIESER, Norwich, Kan.

REGISTERED SPOTTED POLANDS

Choice fall boars from the outstanding bloodlines of Justrite or New Mercury. Also taking orders for unrelated weaning boars and gilts. EVERGREEN FARMS Herbert Holliday Berryton, Kansas

ETHYLEDAL FARM

Improved for type and bigger litters. Best of breeding. Choice fall boars and fall gilts ready to go. DALE SCHEEL Emporia, Kan., Rt. 2

Your Benevolences

should include something for crippled children and the Capper Foundation. Topeka, Kansas, will see that your contribution is used where it will do the most good in the treatment of handicapped boys and girls.



IN THE FIELD

MIKE WILSON
 Topeka, Kansas
 Livestock Editor

The NEBRASKA-KANSAS SHORTHORN SALE, held at Superior, Nebr., averaged \$325 on 73 lots with 42 bulls averaging \$345 and 31 females figuring \$297. Top of \$670 was paid by William Roda, Paradise, for Braemor Starry Archer 43d, consigned by Carl Retzlaff & Sons, Walton, Nebr. High-selling female, Maggie 6th, a Polled Shorthorn heifer, consigned by F. T. Brown, Stamford, Nebr., sold to Warren Roe, Superior, Nebr., for \$625. Mervin Aegerter, of Seward, capably managed the sale.

DALE KONKEL, of Haviland, reports 50 good Spotted Poland China spring pigs on hand and in spite of the badly needed moisture in his part of the state, believes the hog business looks all right for the future. A lot of wheat acreage is being planted to sorghums and corn, which usually stimulates more livestock breeding, including hogs. Mr. Konkel was a heavy exhibitor last year, winning 117 prizes in Kansas, Colorado and Texas state fairs. Among them were grand champion boar and sow at the Kansas State Fair.

In the O'BRYAN RANCH HAMPSHIRE sale, at Hiattville, April 17, 129 lots totaled \$11,560 to make a general average of \$90 a head. Thirty-four boars averaged \$93. Forty-six bred sows and gilts averaged \$112. Forty-nine open gilts figured \$66 a head. John Funk, of Belmont, Ill., was purchaser of the top boar at \$500, a boar called Grand Wonder. Top on females, a gilt from the same litter, Grand Beauty, brought \$320 paid by Jim Stimel, of St. Paul. This gilt sold open with a breeding privilege to the boar Constant, the young herd sire at the O'Bryan Ranch.

The SUTOR HEREFORD RANCH production sale, at Zurich, April 20, was the most successful this firm has ever experienced. Sixty head of registered cattle brought a total of \$22,735. Thirty-four bulls averaged \$440 and 26 females \$299. Top bull of the sale was SHF Baca 18th, and sold at \$695 to Floyd McBe, of Utica.

Top female in the auction was a 2-year-old heifer named Twila. She was carrying the service of SHF Baca 4th. She brought \$705 selling to R. D. Rodenbeck, of Russell. The entire offering averaged \$378 a head. This farm is operated under management of Earl Sutor and son, Darrell, who for many years have been breeding registered Hereford cattle at the present location.

Members of the NORTHEAST KANSAS ABERDEEN ANGUS BREEDERS' ASSOCIATION held their annual spring sale of registered cattle at the sale pavilion, Hiawatha, April 18. Sixty head sold for an average of \$314. Twenty-one bulls averaged \$280. Thirty-nine females averaged \$333.

Top bull was Black Prince of G. & F. consigned by Sterling Gilmore, of Highland, and sold at \$460 to Tommy Brook, of Brady, Texas. Top female was Elban H. Epple 6th with a heifer calf at side, sired by Prince Escort 3rd. This cow was consigned by Ward & Mensen, of Highland. Moore Brothers, of Gardner, were the purchasers of this good cow and calf at \$500. Ray Sims sold the offering.

JOHN RAVENSTEIN & SON, Harley, held their 7th annual Polled Hereford production sale at their Willow Creek Stock Farm, at Belmont, April 25. Forty-eight head of cattle were sold for an average of \$530 a head. Seventeen bulls averaged \$671. Most of this offering was sired by the 2 famous herd sires at Willow Creek Stock Farm, WHR Leskan 2nd and WHR Leskan 3rd. Thirty-one females made an average of \$452. Leskan A 53 by WHR Leskan 2nd topped the bull section of this sale at \$1,600, on the bid of Benton Wilson, of Greenfield, Mo. Lady WHR Leskan 82nd, also sired by WHR Leskan 2nd, was top-priced female in this sale, going at \$1,010 to Willow Springs Ranch, Mount Morrison, Colo.

It was felt by those who attended this sale that it was probably one of the best offerings of breeding cattle the Ravenssteins have ever offered at public auction. Freddie Chandler sold the sale.

CALNON BROTHERS, of McDonald, for several years have operated a herd of Hereford registered cattle, and also a sizable herd of commercial cattle. They decided to disperse their herd of registered cattle April 21 at the farm south of McDonald. Ninety-nine head of registered Herefords were sold averaging \$340. Fifteen bulls averaged \$383. Eighty-four females made a general average of \$332.

Top bull in the auction was one of their herd sires, Premier Tredway 7th. This good bull sold to Wayne Bliss, of Osborne, at \$965. Top female for the day was WHR, Lady Eileen 22nd, with a bull calf at foot, sired by WHR Elit Helmsman and rebred to Premier Tredway 7th. She brought \$1,020 on the bid of Forest Scriviner, Haigler, Nebr.

Following the sale of registered breeding cattle 112 grade 1949 steers and heifers were sold making an average of \$138 a head. E. T. Sherlock & Sons, of St. Francis, made this successful sale.

A new state record price for a Polled Hereford bull sold at auction was established at the CRAMER, SELL AND DUEY POLLED HEREFORD sale, held at Deshler, Nebr., April 15. This new figure was made when Real Plato Domino 63rd was sold to Vanderhoof Hereford Ranch, of Woodlake, Calif., and Vic Roth, Hays, for \$8,450.

Sixty-three head of Herefords averaged \$702 per head. Seventeen bulls in this sale averaged \$1,085 a head. Top female in this sale was Real Plato Dotty, sired by the top bull of the sale. She sold to Gilbert Arensdorff, Lake Park, Ia., for \$1,350. Second top female was a daughter of WHR Leskan 2nd, bringing \$950, and sold to Lathrop Farms, at Crete, Nebr. The 46 females passed thru the auction ring at an average of \$558 a head.

John C. Sell and Fred Duey had consignments of choicely-bred Polled Herefords in this sale. This event was a dispersion of the D. A. Cramer herd. Several cattle sold went to Kansas buyers and breeders. Charles Corkle conducted the auction.

SHEEP

North American Hampshire and Suffolk Stud Ram and Ewe Sale June 5 at Oskaloosa, Ia.

This is the place to buy top Canadian and American consignments. A Suffolk type school will be held at 8 A. M. on June 5th.

For sale catalog write to
 ROY B. WARRICK
 Oskaloosa, Iowa

Dairy CATTLE

For Sale Springing Dairy Heifers

10 Holstein Heifers. 5 Guernsey Heifers. These heifers are 2 years old, and come from good herds in Wisconsin. Due to calve in 30 to 60 days. Price \$200 to \$250.
 W. L. SCHULTZ, Hillsboro, Kan.

Registered and Pure Bred WISCONSIN HOLSTEIN CALVES For Higher Production Herds

Exceptional offering of registered and pure bred Holstein, Guernsey and Brown Swiss heifers and bulls from the finest herds. Tested, vaccinated. Well started—no milk required. Fine selection always on hand. Approval shipment. Write today.

Lowest Prices on HOLSTEIN Cows and Bulls J. M. McFARLAND & Son Watertown 2 Wisconsin

Holsteins Sunnymede Farm

"BURKE'S"

Senior Sire
PABST BURKE LAD STAR
 Sire: Wisconsin Admiral Burke Lad
 Dam: Ollie Lady Star Nettie
 H. T. Record 5 1/2 yrs. 735 lbs. fat
 Sons of Pabst Burke Lad Star available
 C. L. E. Edwards, R. 9, Topeka, Kan.

BULL CALVES FOR SALE

We bred and developed the first and only Holstein cow in Kansas to produce 1,000 pounds of fat in 365 consecutive days. Young bulls with high-production dams or granddams.
 H. A. DRESSLER, LEBO, KAN.

For Sale a Few REG. BROWN SWISS HEIFERS

Which are due to freshen the last of May. Some bred by a son of "Colonel Harry".

G. D. SLUSS

4 miles south on Highways 54 and 77 of El Dorado, Kansas

A GOOD REG. GUERNSEY BULL

18 months old. A grandson of the famous Langwater King of the Meads. Sired by Meadow Lodge King's Laddie and out of an outstanding granddaughter of Boulder Bridge Viking. Here is a high-production-bred bull with very popular breeding. ORLANDO UNRUH, Moundridge, Kan.

Dual-Purpose CATTLE

RED POLL BULL

For sale. One purebred bull, 18 mo. old. Papers if wanted. Price \$200.
 M. D. and ALLAN AYRES, Rt. 1, Augusta, Kan.

BULLS FOR SALE

At beef price from calves to serviceable age, sired by an "Excellent" bull and out of high producing dams. Also females.
 IRVIN H. KNACKSTEDT, Conway, Kan.

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 MIKE WILSON, Livestock Editor
 912 Kansas Avenue
 Kansas Farmer - - Topeka, Kansas

AGRICULTURE
MAY 8 1950
MANHATTAN
KANSAS - ILLINOIS

Beef CATTLE

Last Call
Krotz Stock Farms
ANNUAL SALE OF
ABERDEEN-ANGUS CATTLE
Wednesday, May 10
Sale Pavilion
Marysville, Kansas
40 HEAD. 17 Bulls and 23 Females
All bulls are of serviceable age. Many top herd bull prospects. Sires represented Bar Ever Prince, Ever Prince Revolution 4th, Ever Prince 44th and Ever Prince 100th. Hurry and get your catalog. Contact
KROTZ STOCK FARMS
Odell, Nebraska
Mike Wilson for Kansas Farmer

SUNFLOWER FARMS
Annual Production Sale of
Aberdeen-Angus Cattle
at the farm, at 1 P. M.
Tuesday, May 9
Everest, Kansas
3 miles east on highway 20, 40 miles west of St. Joseph, Mo. 52 Head, 15 Bulls, 37 Females. 10 of the bulls are ready for heavy service. Write for your catalog now to
SUNFLOWER FARMS
Swartz Brothers, Everest, Kan.
Mike Wilson for Kansas Farmer

Angus Bulls For Sale
Five choice yearling bulls, sired by Black Prince of Partridge. Priced reasonably at \$200 to \$250.
UNRUH'S ANGUS FARM, Moundridge, Kan.
2 REG. ABERDEEN-ANGUS BULLS
14 months old. Weight about 1,000 lbs. Sired by McHenry Tarkio of Blackpost.
JOE JAUERNIG, Rt. 4, Burlington, Kan.

SPENCER HEREFORDS
Sires in service CK Royal Tredway 3rd, MH Royal Tredway 93rd. We have sons and daughters now of these 2 great bulls in our herd that looks like real prospects. The 93rd was top-selling bull at the Flint Hills sale in 1948. Our cow herd is mostly of descendants of Advance Standway cows from the Gordon and Hamilton herd.
Watch for our Dispersion Sale this fall.
JOHN SPENCER
Wetmore, Kansas

FOR SALE
POLLED HEREFORDS
A tried sire. Also serviceable-age bulls from our old stand-by bloodlines that has been so reliable and produced so many show winners for us.
Jesse Riffel & Sons
Enterprise, Kansas

YEARLING POLLED HEREFORD BULLS
Sired by Defeo Mischief, Worthmore and Harmon breeding, good individuals, well developed and priced reasonable.
GOERNANDT BROTHERS, Ames, Kan.

POLLED HEREFORD BULL
For Sale, 13 months old, of good breeding and sired by P. V. F. Advance Worth 35th.
LESTER H. KOLTERMAN, Onaga, Kan.

Polled Shorthorns
Males and Females, 6 to 20 months old. Sired by Alpine Charmer and Collynie A Wun. Prices are right.
HARRY BIRD & SON
Albert, Kansas

3 Reg. Polled Shorthorn Bulls
8 months old, 2 reds and 1 roan. Priced reasonable 3 1/2 miles north on Highway 75.
WALTER HUFFMAN, Yates Center, Kan.

FOR SALE
REGISTERED SHORTHORN BULLS
8 to 15 months old. Lots of Quality.
O. D. JACKSON, Route 3, Parsons, Kan.

REG. SHORTHORN BULL For Sale
We now have a dark roan 15 months old, son of Prince William 20th. Priced for quick sale. Also a few bull and heifer calves.
GLENN E. LACY & SON, Miltonvale, Kan.

• AUCTIONEERS •
BERT POWELL
AUCTIONEER
LIVESTOCK AND REAL ESTATE
1529 Plaza Avenue
Topeka, Kan.

Public Sales of Livestock

Aberdeen-Angus Cattle
May 9—Sunflower Farms, Swartz Brothers, Everest, Kan.
May 10—Krotz Stock Farms, Odell, Nebr. Sale at Marysville, Kan.
May 16—Marycrest Farm, Maloy, Ia. J. B. McCorkle, Sales Manager, 3710 A.I.U. Bldg., Columbus 15, O.
September 4—C. E. Reed Stock Farm, Wichita, Kan.
November 9—Kansas State Angus Association Sale, Hutchinson, Kan., State Fairgrounds. Don Good, Secretary, Kansas State College, Manhattan, Kan.
November 16—Kansas Aberdeen-Angus Breeders Sale, Hutchinson, Kan. Don Good, Secretary, Manhattan, Kan.
December 14—Kansas Aberdeen-Angus Breeders' Association, Dodge City, Chet Bare, Sale Manager, Protection, Kan.
Ayrshire Cattle
September 23—Nebraska Ayrshire Breeders' Association Sale, Lincoln, Nebr.
Guernsey Cattle
May 22—Shamrock Guernsey Farm Dispersion, J. E. Sinclair, Owner, Hillsboro, Kan.
Hereford Cattle
October 14—CK Ranch Calf Sale, Brookville, Kan.
October 21—Mid-West Polled Hereford Breeders' Association Sale, Deshler, Nebr. Fred C. Duey, Sale Manager, Chester, Nebr.
October 30—John Spencer Dispersion, Wetmore, Kan. Sale at Marysville, Kan.
November 2—Loren Porter, Quinter, Kan.
November 3—Covley County Hereford Breeders Sale, Winfield, Kan.
November 7—Flint Hills Hereford Breeders Sale, Cottonwood Falls, Kan.
November 11—W. H. Tom & Son, Haven, Kan.
November 14—Sunflower Futurity, Hutchinson, Kan. Gene Watson, Sale Manager.
November 15—John Stump (Polled Hereford), Bushton, Kan.
December 6—All Tredway Hereford Sale, Oakley, Kan.
December 8—South Central Sale, Newton, Kan. Phil H. Adrian, Moundridge, Kan.
December 8—Harvey County Breeders Sale, Newton, Kan. Phil Adrian, Secretary.
December 11—Kansas Polled Hereford Breeders Sale, Hutchinson, Kan. Vic Roth, Sales Manager, Hays.
December 14—Harry Schlickau, Harper, Kan.
Holstein Cattle
May 10—Donald Kliesen Dispersion, Dodge City, Kan.
October 23—Central Kansas Holstein Breeders Sale, Hutchinson, Kan. T. Hobart McVay, Sale Manager, Nickerson, Kan.
November 2—Kansas State Holstein Sale, Herington, Kan. Raymond Bollman, Edna, Kan., Chairman of State Sale Committee.
Jersey Cattle
May 6—Ira B. Kemery Estate, Blockton, Ia. Sale at Marycrest Farm, Maloy, Ia. Ivan N. Gates, Sales Manager, West Liberty, Ia.
Shorthorn Cattle
June 15—W. A. Cochel, Parkville, Mo., and D. W. Bishop, Gashland, Mo. Sale at Roanridge Farm, Parkville, Mo. Mervin F. Aegerter, Sales Manager, Seward, Nebr.
October 26—North Central Kansas Shorthorn, Beloit, Kan. Edwin Hedstrom, Sale Manager, Mankato, Kan.
November 10—Kansas Shorthorn Breeders Sale, Hutchinson, Kan. Lot Taylor, Sale Manager, Manhattan, Kan.
Polled Shorthorn Cattle
November 9—Kansas State Polled Shorthorn Breeders Sale, Hutchinson, Kan. Lot Taylor, Sale Manager, Manhattan, Kan.
Duroc Hogs
May 22—Earl Martin & Son, DeKalb, Mo. Sale at South St. Joseph, Mo.
Hampshire Hogs
October 21—R. E. Bergsten & Sons, Randolph, Kan.
Sheep
May 15—Fourth Annual Purebred Ram Show and Sale, State Fairgrounds, Hutchinson, Kan. R. F. Cox, Sale Manager, Manhattan, Kan.
Hampshire Sheep
May 11—Missouri State Breeders' Association Ram Sale, St. Joseph, Mo. Glen Armentrout, Sales Manager, Norborne, Mo.
June 5—North American Hampshire and Suffolk Stud Ram and Ewe Sale, Oskaloosa, Ia. Roy B. Warrick, Manager, Oskaloosa, Ia.
September 11—Central Missouri Breeders' Association, Fayette, Mo. E. C. Dugan, secretary, Boonville, Mo.
Suffolk Sheep
June 5—North American Hampshire and Suffolk Stud Ram and Ewe Sale, Oskaloosa, Ia. Roy B. Warrick, Manager, Oskaloosa, Ia.
Sheep—All Breeds
June 23-24—Midwest Stud Ram Show and Sale, Sedalia, Mo. Rollo E. Singleton, Manager, Jefferson City, Mo., care of State Dept. of Agriculture.
On April 3, at Kiowa, **ARTHUR J. MOLZ** offered for auction a good pasture-condition group of Herefords. Averages ranged up to \$590 on bulls and \$355 on females. The top of \$590 was paid by Kenneth Dunbar, of Arkansas City, for MP Domino 173rd. He was a May 7, 1948, son of MP Domino 99th and out of Lady Domino 77th. Second top on bulls was reached by G. Rathgeber, of Hartner, on MP Domino 165th. Top on females was \$355, paid by Ted Brown, of Alva, Okla., for Lady Domino 65th. The 55 lots sold in this offering made a general average of \$230. Col. Freddie Chandler sold the offering.
FRED FARRIS, Faucett, Mo., sold Durocs the night of April 21. Eighteen boars averaged \$96.50 with a \$405 top. The top boar went to Dr. C. H. Meschuke, West Los Angeles, Calif. Second top boar at \$300 went to John Bollen, Hiwassee, Ark. Frank Pyle, Hamlin, bought the 3rd high-selling boar at \$95. Six gilts just recently bred averaged \$70. Twelve open gilts averaged \$52.75. Two tried sows sold for \$135 and \$97.50. W. F. Bleam, Leavenworth, bought 4 open gilts. Frank Pyle, Hamlin, 3 boars. Other Kansas buyers selected 1 head each. The general average on the sale was satisfactory. Bert Powell was the auctioneer.

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	\$31.00	\$31.00	\$25.00
Hogs	17.50	16.35	18.85
Lambs	27.75	30.00	28.75
Hens, 4 to 5 lbs.	20	21	28
Eggs, Standards	28 1/2	28 1/2	43 1/2
Butterfat, No. 1	56	56	54
Wheat, No. 2, Hard	2.34 1/4	2.36 1/4	2.32 3/4
Corn, No. 2, Yellow	1.47	1.40 3/4	1.34 1/2
Oats, No. 2, White	1.87 1/2	.85 1/2	.73 1/2
Barley, No. 2	1.24	1.18	1.09
Alfalfa, No. 1	30.00	27.00	30.00
Prairie, No. 1	14.00	14.00	17.00

HOLSTEIN DISPERSAL SALE
of 165 Head High Grade Cattle



Selling at the farm 1/4 mile off U. S. Highway No. 50S, or 1 mile north of the water tower at

Dodge City, Kan.
Wed., May 10

Sale will start at 11 o'clock.
Lunch available.

60 COWS and HEIFERS—25 close springers, 20 fresh, 15 milking and rebred.
30 BRED YEARLINGS and 2 YEAR OLDS—weighing from 800 to 1,100 lbs.—due to freshen next fall.
22 OPEN HEIFERS—short yearlings.
50 HEIFER CALVES—from a few days old to early fall calves.
3 SERVICE AGE BULLS—From record dams—the junior herd sires' three nearest dams average 553 lbs. fat. His grand dam was 3rd at 1949 National Dairy Show. Other sire is by "Regal," sire of the 1949 All-American "Get" and the Wisconsin state record 2-year-old butterfat producer.
Note—This is one of the greatest dispersals of high grade Holsteins in western Kansas in recent years. One of the better herds in the entire Southwest. On test (DHIA) 4 years. Many cows milking 5 to 9 gals. per day. Many over 400 lbs. fat each year. Heifers milking from 5 to 7 gals. Some averaging 60 lbs. fat per month.
A home bred herd with extreme dairy quality, with recent additions of big, top quality, Northern cows.
Many are calfhod vaccinated. Young cattle are officially vaccinated. Cows are Bang's tested. All have recent Tb. test. Health charts available for interstate shipment.

DONALD KLIESEN, Owner, Dodge City, Kan.
Harold Kirk, Auctioneer, Bucklin, Kan.
Claude E. Wylam, Sales Manager, Waverly, Ia.

COMPLETE DISPERSAL SALE
Monday, May 22, 1950



50 Head of Reg. Guernseys
22 Cows in Milk

Mostly young cows. All on Official HIR Test. Average butterfat. 372.5 lbs. on 2 time milking. Present state champion 654 lbs. butterfat. 2 herd bulls, sons of Foremost Acme and Coronation Melbas Majestic. 7 bred heifers due this fall. 11 heifer calves 1 to 10 months. 1 son of Colorado Acme and Lynn Lee Ruth 2nd. 1-year-old ready for light service. All calfhod vaccinated. Bang's and Tb. tested. Write for catalog.

SHAMROCK GUERNSEY FARM
J. E. Sinclair, Owner Hillsboro, Kan.

4TH ANNUAL PUREBRED RAM SHOW AND SALE

State Fair Grounds
Hutchinson, Kan., Monday, May 15, 1950

70 Purebred Rams of following breeds:



Hampshire
Shropshire
Suffolk
Southdown
Dorset

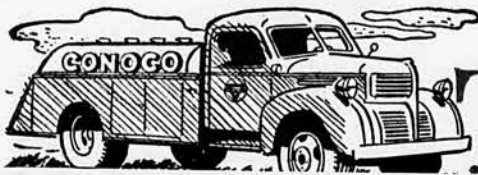
Selected from Kansas best purebred flocks. Good rams are in heavy demand and the supply is not too plentiful. Better buy early and where you can get a good selection without excessive travel.

Judging of rams — 3:00 p. m.
Sale — 7:00 p. m.

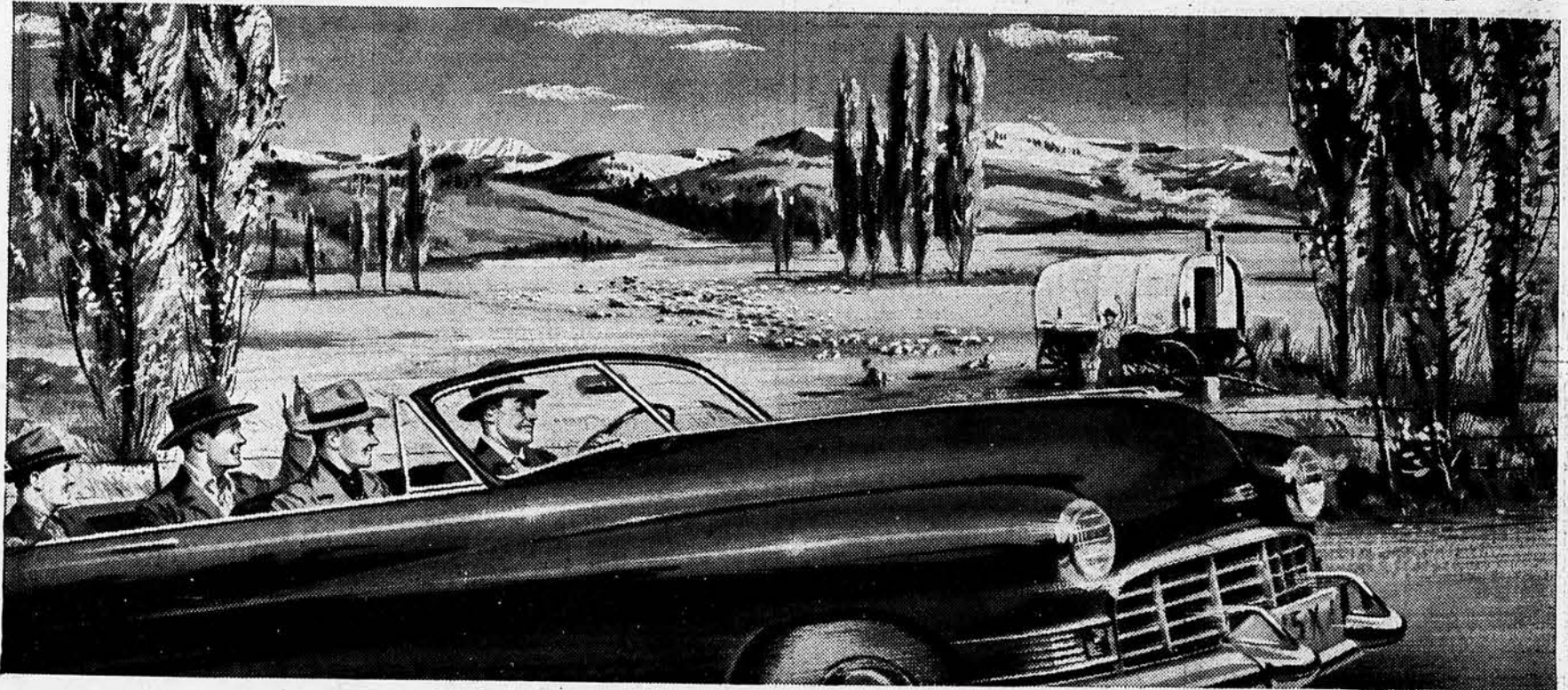
Write for catalog to
KANSAS PUREBRED SHEEP BREEDERS' ASSN.
Kansas State College
Manhattan, Kansas

Mention Kansas Farmer When Writing Advertisers

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The Tank Truck

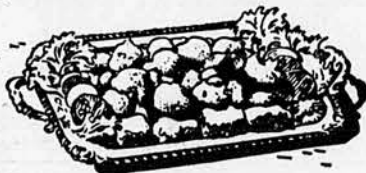


50,000 Miles - No Wear!

1. Desert Test Amazes Engineers! To find out how good new Conoco Super Motor Oil is, six brand-new cars were driven over the hot desert along the Mexican border at 60 m.p.h. . . 14 hours a day for 70 days! Scientists were astounded to find that

after 50,000 continuous miles, the engines showed no wear of any consequence... in fact, an average of less than one one-thousandth of an inch on cylinders and bearings! Even the piston rings still showed the original factory finishing marks!

Hush Puppies



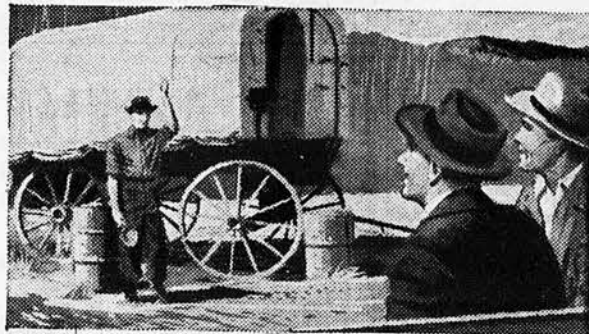
... by Mrs. Lamar Perkins,
R. 3, Timpson, Tex.

- 1/2 cup sifted flour
- 2 t. baking powder
- 1 T. sugar
- 1 beaten egg
- 1/2 t. salt
- 1 1/2 cups corn meal
- 1 small onion (finely chopped)
- 3/4 cup sweet milk

Sift together dry ingredients. Add onion. Add beaten egg and milk, stirring lightly. Drop a teaspoon of batter for each hush puppy into hot, deep fat (360°) in which fish has been fried or is frying. Fry only a few at a time until golden brown. (Makes 24 hush puppies.) Serve with fish. Eat while hot.

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

FARM KITCHEN



2. New-Car Mileage! Records showed that the gasoline mileage for the last 5,000 miles of the run was as good as for the first 5,000 miles... actually there was an average difference for the fleet of only 4/100 of a mile per gallon, about as far as from your house to the barn! This amazing experiment proved that new Conoco Super Motor Oil, with proper crankcase drains and regular care, can keep your new car and tractor new!



3. Full Power Longer! Quicker Starts! Yes, Conoco Super Motor Oil can keep your new car and tractors running with showroom smoothness year after year! Conoco Super Motor Oil OIL-PLATES metal parts to make them last longer, perform better... virtually stops wear before it starts... keeps your engines new and clean! Better call Your Conoco Agent or Jobber today for a drum or a 5-gallon can of Conoco Super Motor Oil.

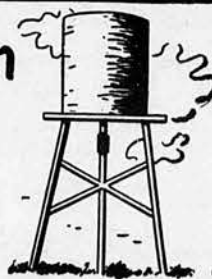


To Block Tractor

To block tractor for belt work, slip heavy boards under the rear tire, with the other end resting on front tire. Keeps front end from bouncing. R. P. Chesney, Woodston, Kans.

Tank Connection

When vibration of the riser to his water tank kept breaking loose the connection to the bottom of the tank, Fred Marsh, R. 1, Duncan, Okla., coupled the 1 1/4" riser together with a radiator hose, and stopped the vibration breaks at metal flange.



YOUR CONOCO MAN



PRIZES FOR IDEAS!

Send your original ideas to *The Tank Truck* in care of this paper—and get a genuine \$8 D-15 Henry Disston Hand Saw for every idea that's printed!