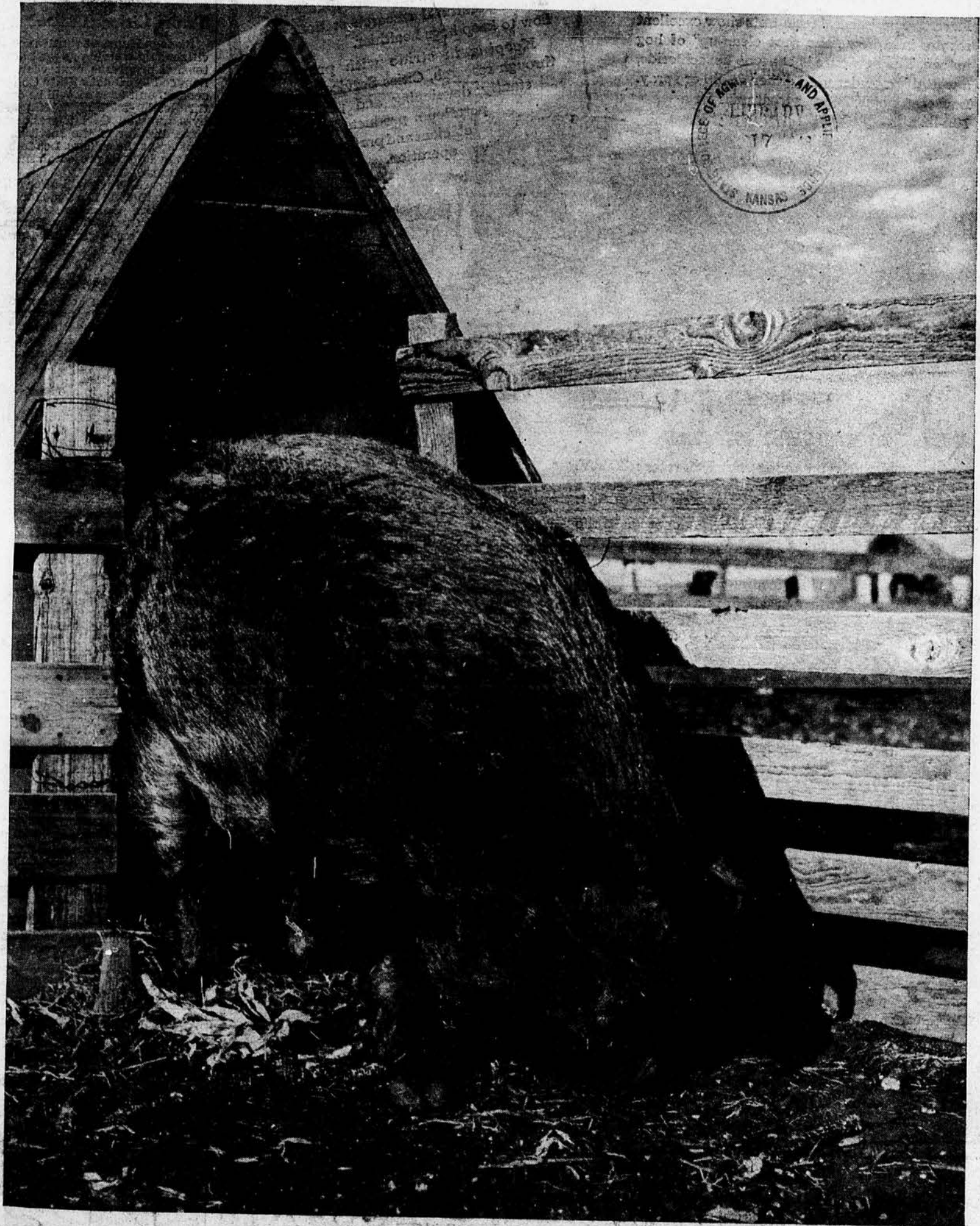


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KANSAS FARMER

JANUARY 17, 1948

CONTINUING MAIL & BREEZE



Demand for Meat Has Never Been So High . . . See Pages 10-11

FARM SERVICE BULLETIN

HOG MANGE CURE

Recent experimental farm tests show excellent results in a new "one shot clean-up" of hog mange. The new cure is benzene hexachloride, a wettable powder used either as dip or spray. Low cost: about 20¢ per treatment for a 100-lb. hog.



NEW HOG CHOLERA VACCINE

Hog immunization employing a newly developed B.T.V. (Boynton Tissue Vaccine) and Crystal Violet Vaccine is proving highly satisfactory in protection against hog cholera. Its advantages: the vaccines cannot cause the disease hog cholera so they can be used on all or part of the herd; its use is not so likely to be followed by "stunting" or by a "break" since feeding is not affected; it can be used on pregnant sows; cost is less than serum and virus immunization.

EXIT THE ROUNDWORM

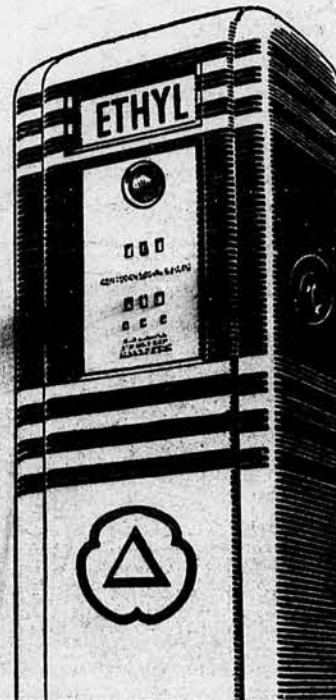
A small amount of sodium fluoride mixed with ground feed is reported to rid 90% to 95% of hogs from roundworms. It is potent, but very poisonous, so check your veterinarian before use.

THREE MOTOR OIL TYPES

All top quality—Regular, Premium and Heavy Duty. Order from your Cities Service Farm representative for prompt service.

TOP QUALITY GASOLENES FOR FARM AND HIGHWAY

More power, pep and performance for your gasoline burning farm equipment with these famous Cities Service gasolines. Order from your Cities Service Farm representative. The gasoline he delivers to your farm is the same top quality fuel you buy at the famous Cities Service highway pump.



More important than ever in this year of world wide food shortages, hog production has been drawn into the limelight of attention. Here are timely tips from agricultural research stations on how to keep hogs healthier.

Keeping in stride with progress through research, Cities Service is constantly developing and perfecting petroleum products for more efficient and profitable farm operation.

REMOVE AND PREVENT RUST

Remove rust and scale from idle farm equipment with Cities Service Rust Remover. Protect new equipment or rust-cleaned old equipment with Cities Service Anti-Corrode. Easily applied with brush, or by dipping.

Get both from your Cities Service Farm representative.

Crosses Beef Strains

There seems to be some advantage in breeding Hereford cows to Angus bulls, according to H. F. Kirchner, Chautauqua county. Selling off the cows in August when the calves are 6 or 7 months old, the young animals look a little more finished and usually go to the packer rather than feeders. His son, Harold, believes there is a slight weight advantage in favor of the crossbreds, too.

Their program is to raise approximately 4 calf crops in this manner, then switch back to a registered Hereford bull for 2 or 3 years to keep the foundation stock pure.

Train Citizens

Sixteen Kansas counties will conduct citizenship training as part of their extension programs next year, it is announced by Kansas State College. Citizenship unit of work will be carried out thru leader-training meetings directed by Professor Carl Tjerandson, associate director of the Institute of Citizenship at the college. Leaders, in turn, will develop the project in their respective units.

Counties which will offer citizenship training include Barton, Harvey, Pratt, Reno, Rice, Johnson, Montgomery, Atchison, Chase, Geary, Bourbon, Butler, Cherokee, Franklin, Cowley, and Greenwood.

Double Water System

Mrs. H. D. Gleue, of Marshall county, is a happy farm woman. And she should be. Her husband has installed 2 water systems, one each for hard and soft water. Now Mrs. Gleue has running soft and hard water in the kitchen and in the utility room.

Mr. Gleue put in the hard-water system without digging any ditches, he reports. Starting from inside the basement and taking a s'ght on the well by the use of 2 plumb bobs, Mr. Gleue had a hole bored from the basement to the well, then inserted a pipe. It wasn't easy but it was easier than digging trenches, he reports.

Uses Brahma Cross

First-calf heifers in the Spur Ranch Angus herd breed back more regularly after cross-breeding the first time with a Brahma bull, according to Floyd Mills, owner. A year ago 125 heifers were bred to Brahma bulls and only about 12 showed brindle and red coloring. The remainder were solid black but had some Brahma features. Particularly noticeable were the slender heads and drooping ears.

These crossbred calves have a slick look and go directly to the packer. They will dress out a larger percentage of meat than an ordinary vealer, Mr. Mills believes. At the same time it helps cut death loss to a minimum because the Brahma cross makes the first birth easier, he says.

The second breeding is back to registered Angus bulls, except that he has tried the first cross on some common cows. These calves, too, seem to get a certain amount of vigor out of the cross.

Senator Capper on Radio

Every Sunday afternoon at 4:45 o'clock Senator Arthur Capper discusses national questions over WIBW radio station.

KANSAS FARMER

Continuing Mail & Breeze

Topeka, Kansas

Vol. 85, No. 2

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Cities Service

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PROGRESS TOWARD A COMMON GOAL: Highline Service for Every Kansas Farm!

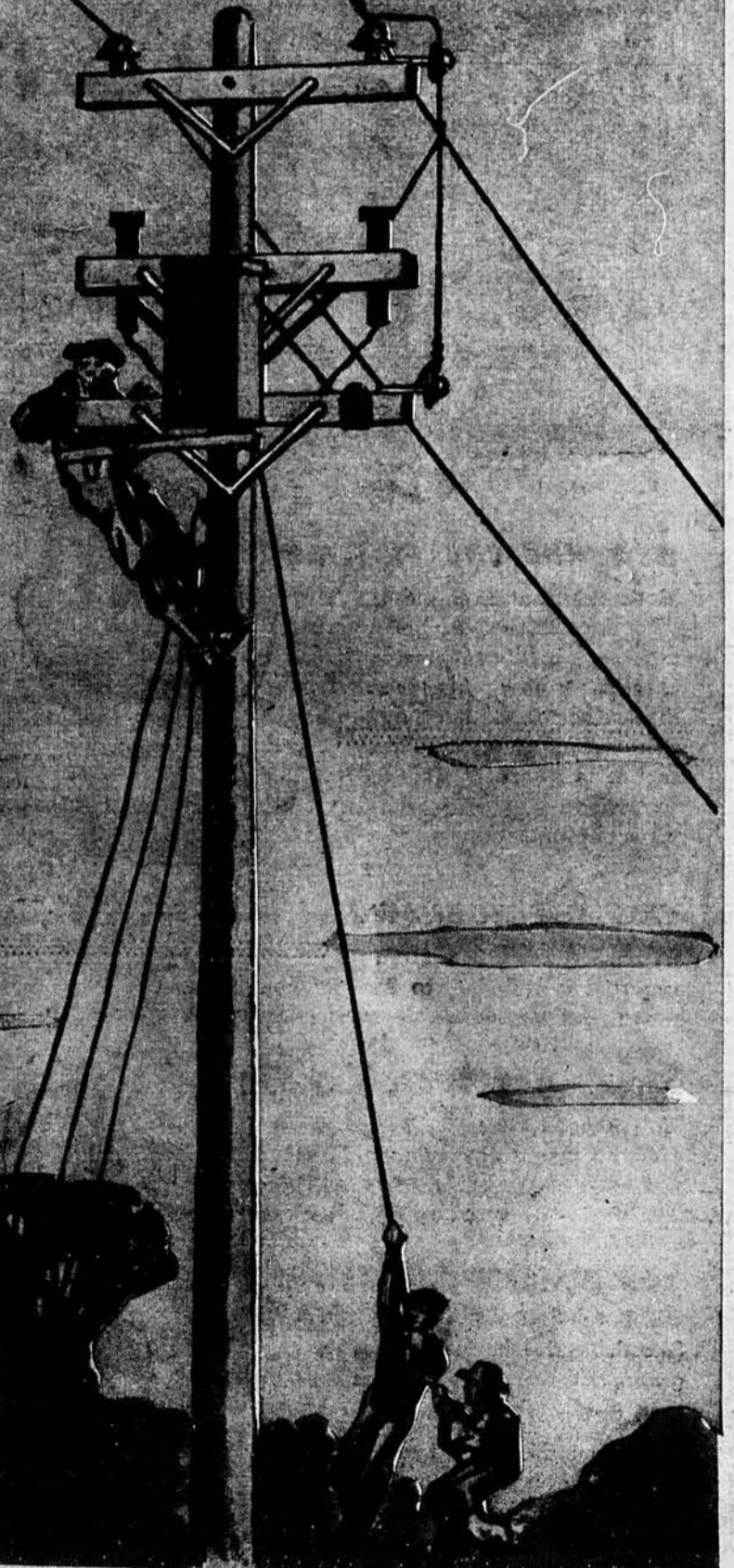


TODAY more than 64,000 Kansas farm families enjoy the benefits of electric service on their farms . . . and more than 10,000 of those Kansas farm families have received highline electric service in the past year.

Despite the shortage of skilled manpower, material and equipment, your business-managed, tax-paying electric companies are doing their part, along with other groups and agencies using the experience and know how to get a job done . . . to bring highline electric service to every Kansas farm home . . . That's progress toward a common goal.

If you're still waiting for highline electric service on your farm you can be sure that your electric company is making every effort to get electric service to you . . . a goal for 1948.

Note—Number electrified farms estimate January 1, 1948



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Gas and Electric Company • The Kansas Power and Light Company • Western Light & Telephone Company

PIONEERS IN KANSAS RURAL ELECTRIFICATION

10,000 MORE Kansas Farms CONNECTED to HIGHLINES in 1947
As Rapidly as Materials and Manpower Become Available New Customers Get **SERVICE**

Coffeyville Farm Meet Comes January 19-20

SEVENTEEN Kansas State College faculty members, headed by President Milton S. Eisenhower, will be on the program of the second annual Farm, Home and Industrial conference in Coffeyville, January 19 and 20.

President Eisenhower is to be the principal speaker at an evening program January 19, in the city auditorium. L. C. Williams, director of the Kansas State College Extension Service, will preside.

The conference, the second of 6 to be held in Kansas under sponsorship of Kansas State College, will be divided



Milton S. Eisenhower



L. C. Williams, Director of Extension, Kansas State College

ers for the homemakers' session the first afternoon. Doctor Beelman's topic is "It Pays to Be Healthy." Mrs. McNulty will give a demonstration of weaving and spinning. She will have an extensive homemade lace exhibit.

John D. Bender will represent the college on the industrial program January 19. His subject is the improvement of plant layouts to reduce handling costs.

Members of the Institute of Citizenship staff at Kansas State, Eric Tebow and Carl Tjerandsen, will direct discussions at the Tuesday morning assembly, January 20. "Great Britain and Our Responsibility for World Peace" is the discussion subject Tebow will lead. Tjerandsen will direct a discussion on the Marshall plan of aid to needy nations.

M. A. Seaton, John M. Ferguson, and E. A. Cleavinger, extension staff members, will be on the January 20 agricultural-section program. Seaton will discuss quality egg production and marketing. Ferguson's topic is "Let's Be Practical in Erosion Control," and Cleavinger will give late information about the use of fertilizers.

Standard of Excellence awards will be presented to Southeastern Kansas home demonstration units by Georgiana Smurthwaite, state home demonstration leader, at the Tuesday afternoon homemakers' program. "Cheese in Your Meals" is the subject Elizabeth Whitney, Kraft Cheese Company demonstrator, will use in discussion and demonstration at this session.

College faculty members, Dr. M. D. Woolf and M. A. Durland, will speak at the second-afternoon industrial session. Woolf, who is in charge of the college counseling bureau, will discuss aptitude tests used for selecting industrial workers, and Durland, assistant dean in the school of engineering and architecture, will speak on the em-



George Montgomery, Head, Department of Economics and Sociology, Kansas State College

of economics and sociology at K-State. His agricultural-section topic is the agricultural price outlook, and for the industrial session, "The Economic Situation as It Affects Industry."

Other agricultural-section talks the opening afternoon will be given by J. W. Linn, E. G. Kelly, and Paul W. Griffith, extension specialists. Linn will discuss making and feeding grass and legume silage. Kelly's subject is the uses of new insecticides in alfalfa production, and Griffith will speak on father-and-son partnerships and leases.

Dr. F. C. Beelman, Topeka, director of the state board of health, and Mrs. Clara G. McNulty, Stockton, are speak-



L. E. Call, Dean Emeritus, School of Agriculture, Kansas State College



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W. Linn, Dairy Husbandry Department, Kansas State College

ment of industrial school gradu- in Kansas industry. Your district farm, home and industrial conferences will be held in Central Western Kansas in February. The places and dates: Hutchinson, February 9-10; Dodge City, February 10-11; Beloit, February 11-12; Beloit, February 12-13. These district events replace in part state-wide Farm and Home Week program held on the Kansas State College campus. Crowded conditions there caused a shift to district conferences in 1946.

Worth \$50 an Acre

is profitable for farmers in irrigated sections of Kansas to spend up to \$50 an acre for leveling their land, says Walter E. Selby, Kansas State College extension engineer. Irrigation water flows at a more uniform speed and depth over a field when the surface has been leveled to a "uniform slope of grade," says Mr. Selby. "In some cases, as much as a 50 percent saving in water and labor has resulted from elimination of high and low spots." Careful planning should be done, Mr. Selby warns, before leveling is started. Work should be based on a map made from a surface survey showing location of high and low spots and the general slope of the field.

New State Sealer



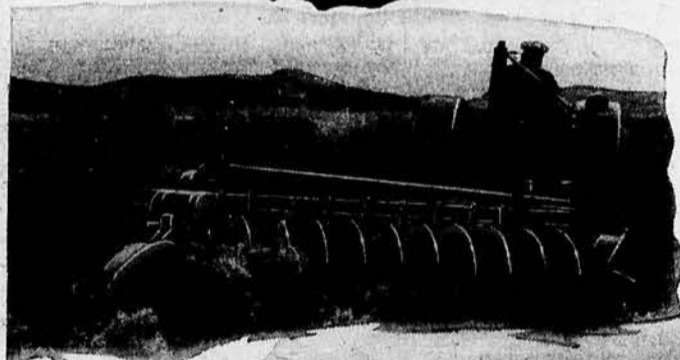
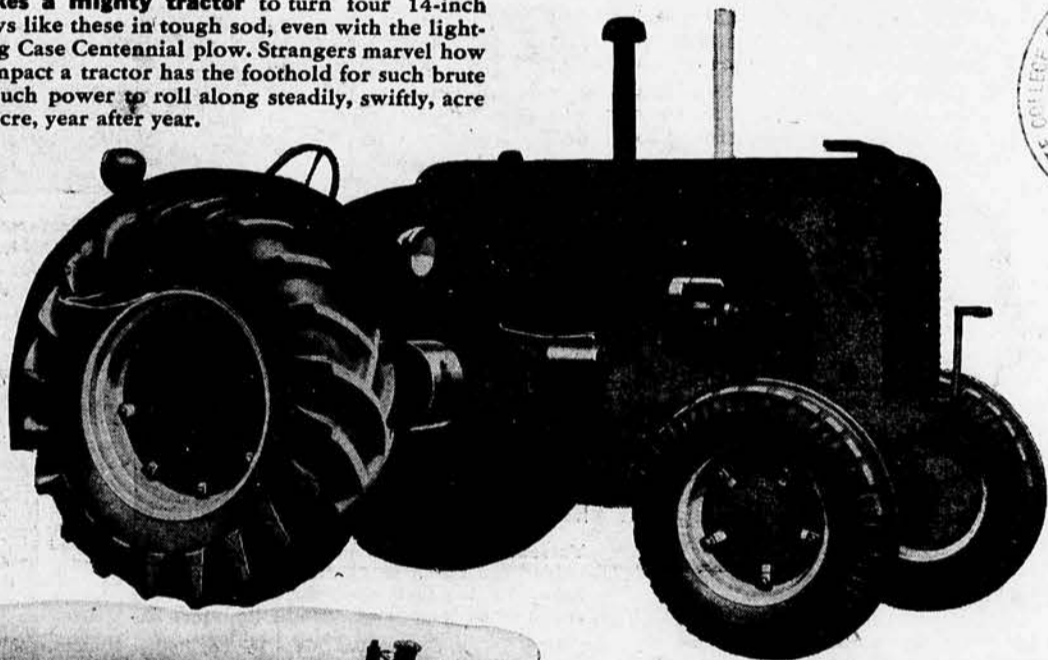
J. F. True

Kansas now has an official state sealer of weights and measures. He is J. F. True, former county agent in Coffey county, and former representative with life insurance companies. Announcement of his appointment was made by J. C. Mohler, secretary of the state Board of Agriculture, under which the weights and measures division will work. The division of weights and measures was established by the last legislature. Once its program is in full swing, the division will test and seal scales in the state at periodic intervals. Mr. True pointed out that it will be necessary to proceed slowly since it will take time to organize the work and obtain equipment needed.

When the Going is Tough and Help Scarce



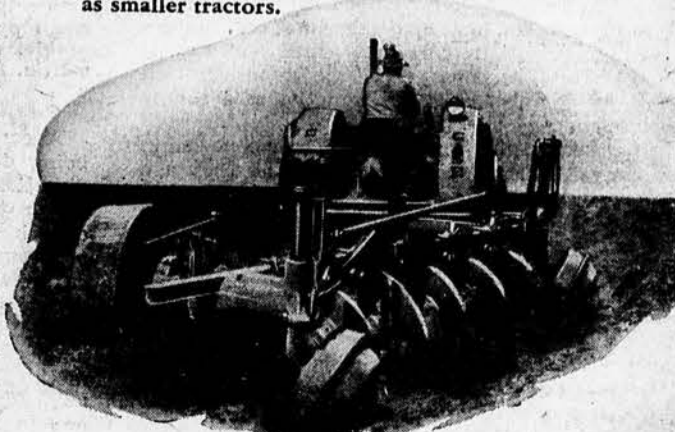
It takes a mighty tractor to turn four 14-inch furrows like these in tough sod, even with the light-pulling Case Centennial plow. Strangers marvel how so compact a tractor has the foothold for such brute pull, such power to roll along steadily, swiftly, acre after acre, year after year.



Sage brush surrenders an 8-foot swath, soon to become a part of the soil to be seeded to wheat. This is the mighty "LA" working with a Case "WPA" One-Way disk plow to transform desert waste into profitable land. Operators like the roomy platform of the "LA" and its deep-cushioned safety seat.



Doing as much as two men and two tractors with the "LA," a 10-foot tandem disk harrow, and 10-foot Case press drill. Better tillth and prompt seeding bring better stands, fewer weeds, more uniform ripening, better yields. Easy steering and convenient controls make the "LA" as quick and easy to handle as smaller tractors.



Five furrows hub deep in tough Arizona soil are turned with a Case 86-A Heavy-Duty disk plow, pulled by an "LA" equipped to burn butane. Getting good economy with this special fuel, with gasoline, or with heavier tractor fuels and distillates, makes the "LA" a favorite with farmers who keep close account of costs.

● The tougher your soil and the deeper you till it . . . the more acres and the more operations you have . . . the more you stand to gain from the extra power, speed and convenience of a Case "LA" tractor. When you are short-handed, its mighty 4-5 plow capacity is like doubling your man-power. When bad weather sets you back and next week may be too late, the "LA" catches up lost time and helps you make a crop.

When you figure the value of farm labor it saves plus the extra "yield per man" it enables you to get, the "LA" is worth more than ever. When you look at its heritage of ENDURANCE, including records of intensive service equal to 30 years of farm work, you can expect long tractor life and low upkeep. The "LA" is being built in greater numbers, but still there may not be enough; see your Case dealer now.

The "LA" is largest of four sizes and 20 models of Case tractors. Write for latest catalog; mention size of tractor to fit your farm. J. I. Case Co., Dept. A-47, Racine, Wis.

CASE



These Men Are Tackling Your...

Unsolved Dairy Problems

By DICK MANN

HOW would you like to take a peek behind the scenes at the Kansas State College department of dairy husbandry? What are those fellows over there doing in the way of research that will help you in your dairy program? Do they understand your problems and are they trying to find the answers?

Like you, we were curious about these things. So, recently, we spent a day with research men in the department of dairy husbandry. What we saw and heard really opened our eyes. So many projects are being carried on we can't begin to cover all of them. We have, however, picked out a few we think you will be most interested in and will tell you something about them.

Naturally, we can't go into detail on results of these experiments. They are so new most of them are not even completed. It wouldn't be fair to draw conclusions now on results. But, most of the experiments are far enough along to show promise of some outstanding results. We can give you some idea of what the dairy husbandry department hopes to find out on several subjects. And what those answers will mean to you in making your dairy project easier and more profitable.

If you have tried to use the new "fast milking" technique in your herd you probably realize by now that information available on this subject doesn't contain all the answers. "Fast milking" is easier to read about than it is to put into practice.

Intensive research on this subject is being done at Kansas State College. In reviewing the problems, Professor F. W. Atkeson, head of the dairy husbandry department, says: "For many years practical dairymen have recognized in hand-milked herds differences between fresh cows and strippers, hard and easy milkers, rapid milkers and slow milkers, fleshy udders and high-quality udders, variations between quarters of the same udder, and varying temperaments of cows as indicated by their reaction to milking. Because these things are so commonplace and difficult to measure exactly when hand milking, they have not received experimental attention.

"With machine milking, these variables may become even less noticeable. One of the greatest needs today is to measure, under carefully controlled conditions, the reactions of a sufficient number of cows to mechanical milking to establish basic differences in individual cows under different conditions, and variations between cows. With this information available, the underlying causes for such variations might be corrected thru improvement in milking technique and in design of machines.

"In other words, we have not been able, to date, to recognize and measure many of the factors which affect milking efficiency. Until such fundamental work is done, extensive generalization about the complex biological function of a cow is unjustified.

"There are many unsolved problems concerning the use of milking machines, even tho they are universally accepted and are a great success," says Professor Atkeson.

"Some fundamental research at Minnesota on the physiology of milk let-down has revolutionized the thinking of manufacturers and dairymen with respect to efficiency in machine milking. But, based on rather limited research of a somewhat controversial nature, nation-wide campaigns on methods of milking have been instituted.

"While most milking-machine manufacturers are in agreement on methods of operation, machines on the market vary widely in design and the emphasis placed on factors contributing to milking efficiency. Along with development in machine milking has been progress in recognition and appreciation of the importance of mastitis in the dairy herd. Machines are being designed and operating methods developed which tend to minimize the occurrence of this malady."



Various feeding problems of dairy cows and calves are being studied by Dr. F. C. Fountaine. He hopes to find the answer to the cause of udder edema, one of the most important unsolved dairy problems.



A survey of 1,000 Kansas farms to study milking problems has been conducted by Professor W. H. Martin. His findings will help you do a better job.

A complete study of fast-milking problems is being done at Kansas State College under the direction of Professor G. H. Beck. In discussing the project, he says that the primary object of the experimental work is to measure the variations occurring in the rate of milk flow during mechanical milking and to determine, where possible, the underlying causes for such variations.

To do this, a continuous-flow kymograph, with a specially designed spring, is used. When the method of measuring is perfected, Mr. Beck hopes to measure separately the rate of flow from each quarter of an udder.

Conditions being studied in relation to the rate at which a cow milks out include breed, age, stage of lactation, bloodlines (or families), hard versus easy hand milkers, quality of udder, mastitis history, season, variations between quarters of the same udder, and training of the cow.

Deviations from the established rate of milking are being studied, considering the following fac-



Professor F. W. Atkeson, head of the dairy husbandry department, Kansas State College. Professor Atkeson is giving Kansas Farmer readers a chance, thru this article, to get a preview of dairy research work being done at the college.



Milk-handling problems on the farm, in cream stations, and in processing plants are being studied under direction of Dr. T. J. Claydon.



Professor G. H. Beck is in charge of extensive experiments on the "fast milking" process, now generally used but which still has many unsolved problems.

tors: Stimulation versus no stimulation for milk let-down, temperature of the wash water, amount of udder massage, nature of udder massage, time interval between massage and application of unit, washing the cow prior to milking, feeding the cow before, during, or after milking; difference between machine operators, amount and kind of machine stripping. Mechanical features of milking machines will be measured as to rate of pulsation, amount of vacuum pressure, lop-sided milking (varying ratio of pull [Continued on Page 24]



Farm Matters

AS I SEE THEM

IN ADMINISTRATION circles here, it seems more and more to be taken for granted that Congress will yield to pressures by late spring, and give the President authority to return to meat rationing. In fact, it sounds here in Washington—and is in effect rebroadcast by the metropolitan dailies—as if “we must have meat rationing” is the Administration theme song.

Right now I have serious doubts whether Congress will grant either the rationing or price-control powers sought by President Truman. And my understanding is there is not much enthusiasm in the Department of Agriculture for rationing of meats altho, of course, Secretary of Agriculture Anderson, as a member of the President's cabinet, has to lead the fight to persuade Congress of the necessity for meat rationing.

There certainly is going to be less meat the coming winter and spring months. But actually it does not look to me as if the shortages are going to be so drastic as to require a return to ration controls. Consumers apparently will have available about 146 pounds of meat per capita for this year. This is 10 pounds less than in 1947, but nearly 20 pounds more to the person than Americans consumed per person prewar.

A workable Government rationing system would take from 3 to 6 months to get into operation—and there is a serious question then whether people would stand for it in peacetime. A lot of this talk of price controls and rationing seems to me to be propaganda for 2 main purposes: (1) to frighten people into the frame of mind to grant control powers to the planners in Government; and (2) to place the blame for high prices somewhere else than where it really belongs, which is on Administration policies, foreign and domestic, that are responsible for inflation. I believe it is pretty generally accepted here that Congress will, in the end, enact the European Recovery Program (the Marshall plan) into law, and appropriate around 5 billion dollars for it. This instead of the \$6,800,000,000 recommended by the State Department thru President Truman.

It also is accepted that Congress will pass a tax reduction bill, and make it retroactive to January 1, 1948. Congress will not accept the President's proposal, made in his message on the state of the Union, to rebate \$40 per person (including dependents) to each individual income taxpayer, and make it up by increasing corporation taxes by \$3,200,000,000 a year.

Instead, I look for the bill to increase the exemption per individual from \$500 to \$600; lower the income tax rate on the lower income brackets by 30 per cent—nearly one third—with lesser reductions on higher incomes, so those in the higher brackets will draw a decrease of only 10 per cent. In addition to that, husbands and wives will be allowed to divide their earned income for tax purposes, placing the rest of the country on the same level with the community property states for income tax purposes. This latter change will benefit those with incomes above \$5,000 annually.

So far as most farmers are concerned, the Congress tax reduction plan will be much more beneficial than the one proposed by President Truman. President Truman last session vetoed a similar bill (without the community property provision). Whether he will veto this one, and whether it can be passed over a veto, is an open question.

The size of the wheat and corn crops this year probably will decide whether the present high prices for major farm commodities will last thru-out the year. Economists in the Department of Agriculture expect prices to go higher, on the whole, from now until the wheat harvest starts. Some time after that, especially with good grain crops, food prices are expected to slide, with possible exception of meat.

In Strong Position

I SEE Kansas farmers forging ahead in 1948 with at least two achievements that should afford considerable satisfaction and comfort of mind. One is the definitely stronger financial position. The other, even more important in the long run, is the fact that thru your own efforts you are living on better farms. I think both of these gains can be held, even further improved, during the next 12 months.

In addition to all this I know you must find inspiration in the unlimited opportunities for advancement of agriculture that are being opened up. You and I know we all live by goals. It seems to me there are more goals ahead for agriculture than ever before. Not only in 1948, but for all time to come.

This better financial position you enjoy is due, of course, to higher prices for farm products. But that isn't all. It also is due to wise use of this money. We all know farm income is at a new high point. That farm people are better off than in many years—even if their incomes are not on a par with other incomes. On a per capita basis farmers are getting the largest net income in history. Now, I have watched with a good deal of interest—and pride—to see how this income has been used. I realize, as you well know, that farm expenses have gone up at a higher rate than farm incomes. But despite that, I see such gains as a lower farm mortgage debt, substantial savings in Government Bonds and other good securities, more money invested in educating the children, money wisely used for the many things that make for better farm living.

I congratulate my farm friends because they staved off the disaster of a land boom. As a result, farmers in Kansas and over the Nation have a total mortgage debt that is much lower than after World War I, and one that is substantially less than in 1940. Getting down to figures, Government records show farm mortgage debt at the start of 1947 was little more than half the 1920 debt; it was less than half the peak debt of \$10,785,621,000 reached in 1923. And it was 27 per cent below what it was in January, 1940. Also, estimates show the number of mortgaged farms is down sharply below 1940 levels.

Between 1940 and 1947, the mortgage load on the Nation's farms shrunk to \$4,777,355,000 from \$6,586,399,000. This lower debt comes as a result of farmers paying off their mortgages. If you will recall back in 1930-35 the debt was decreased then only thru thousands of foreclosures.

Now, the fact that farmers own Government Bonds and have good saving accounts isn't surprising. The Secretary of the Treasury has expressed genuine satisfaction many times because farmers

of Kansas and other states have done an outstanding job of buying U. S. Saving Bonds. This is a bulwark against personal financial trouble, as well as being a patriotic defense against economic ills that might be too great for even our great country to bear. I am proud of the record farmers have made in buying U. S. Savings Bonds, and I heartily recommend that they continue buying them.

When it comes to investing money in the best education for the children, you can't possibly lose. I am particularly eager for farm boys and girls to have all the advantages of up-to-date schools, colleges and laboratories. And I want to see the best of them come back to our farms. That is where the keenest minds will be needed in the years ahead. This is true because agriculture is America's biggest and most important big business. Everything else depends on it.

One authority tells us agriculture's size by such measuring sticks as these: It is a large user of power, labor and materials. Prior to the war, American manufacturing and processing industry had 50 million horsepower available, while agriculture had 97 million. The Census reported that 18.45 per cent of all persons gainfully employed are in agriculture, as compared to 24.3 per cent in all manufacturing. American agriculture purchases more than one-third billion dollars worth of building materials annually; more than three-fourths billion dollars worth of machinery and equipment; and more than half a billion dollars worth of fertilizer, which is rapidly becoming a major commodity of the chemical industry. Agriculture is the petroleum industry's largest customer. And the immediate and potential consumption of electricity by agriculture is enormous.

I feel that money invested in better farm living is tremendously important. Whenever a farm family and a farming community raises its standard of living, the foundation for our entire country is strengthened. A healthy, well-cared-for farming people is essential to the welfare of everyone else in these United States. I want to see more doctors available to farm people. We need twice as many as at present. This probably means that farm folks will invest more money in health measures. But it will be worth it. I want to see more farm homes with electricity and all the appliances that make for convenience. I want more farm homes to have running water, telephones, radios—all the helpful things available. When good farming brings in good returns it is just sound sense to turn a generous part of the net profits into better farm living.

The fact is evident that a better job of farming is being done. And that Kansas farm folks are living on improved farms. The business of saving soil has grown until it is the most important project on any of our farms. Saving soil, using crops that improve it, adding fertilizers, following wise crop rotations, terracing and contour farming, all these are making telling gains. Such gains as these will be held and increased this year. And they will help hold the line of improved financial position.

Arthur Capner

Washington, D. C.

Farm Price Support to Meet Opposition

By CLIF STRATTON

Kansas Farmer's Washington Correspondent

WASHINGTON, D. C.—Most observers here believe the prospect for enactment of omnibus long-range farm legislation at this session of Congress is somewhat less than 50-50.

There may even be considerable opposition to the extension of the farm price support program (Stegall 90 per cent of parity—92½ per cent for cotton) which expires December 31, 1948.

Consumers of food in the United States now outnumber producers about five to one. And city consumers are in revolt against high food prices, especially for meats and milk. Many city

consumers feel the Government farm price support program is responsible for high food prices. These folks are more interested in having food prices brought down than they are in paying farmers benefits, no matter under what names, in order to increase farm income.

Also, a recent opinion from the Solicitor of the Department of Agriculture opens the way for postponing action on extending the price support program until the new Congress comes

into being, in January, 1949. That is if the farm leadership in Congress decides public psychology is all wrong for enactment of price support legislation.

In brief the Solicitor's ruling is this: The present act, which continues the price support program on the war basis until the end of 1948, means that the price supports apply to crops or commodities produced thru the year 1948, even tho these may not be marketed until the following year.

So, if the temper of Congress, particularly in the House, is hostile toward extension of the price support act at this session, the farm leadership can let the matter go over until 1949. At that time, if farm prices have dropped enough to hurt farmers, and food prices have dropped enough to take the heat off Congress from city consumers, the chances for enactment of continuing price support legislation might be better than during the present session.

Farm prices, for the most part, are enough higher than the support prices that farmers are not excited. On the (Continued on Page 25)



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These 4-H Boys Like Deferred Calves

THERE is money to be made in feeding baby beeves. But there is risk, too. That is the decision Bill and Clair Hutchinson, Morris county, have made after carrying baby beef projects in 4-H work 2 successive years. Right along with the baby beeves, each of the 2 boys also has had calves on a deferred program. Deferred feeding, it seems to them, is far safer.

Altho each of them netted between \$90 and \$100 on each baby beef last year, and were in line for a good margin of profit their second year on the same program, Bill says it is too risky. Their third year they will have calves on a straight deferred program. Bill is a high-school sophomore and Clair is in the eighth grade. They are sons of Mr. and Mrs. Cecil Hutchinson, Delavan.

These 4-H boys made their decision after checking actual feed records. In each case initial cost of calves for the second year was \$85.50. On the deferred program, wintering cost for roughage and a small amount of grain and cake was \$20.28. Grass thru spring and summer added another \$9. then full feed from August 6 until late in November added \$63.35 more. Total cost was \$178.13. At 1,000 pounds the calves were expected to bring between \$270 and \$300.

On the baby beeves feed costs were up to \$175, pushing total cost to \$260.50. That was nearly \$100 more for feed than was used in the deferred program. These calves won white ribbons at the Wichita Fat Stock show and sold for

\$363. There was a lot of difference in the feed cost, but little difference in the net figures.

For their third year, Bill and Clair have 4 Shorthorns and expected to buy 8 Herefords from their father. But there are no baby beeves in their third program. In addition to the risk, Bill points out that baby beeves require a lot of attention in summer while deferred calves are out on grass.

One of the Shorthorns Bill is deferring this year was given to the state 4-H camp by Mr. and Mrs. L. W. Reeves, Parkerville. Bill is feeding it for the county 4-H Club. Cost of feed will be returned to him and any prizes the calf may win will be his.

Can Hear KSAC

Farmers who like to follow educational broadcasts over KSAC, from Kansas State College, can be assured of hearing these programs. KSAC now is operating on a power of 5,000 watts instead of the former power of 1,000 watts.

"This is the type of service we have been wanting to give the people of Kansas for a long time," states L. L. Longsdorf, extension editor and program director of KSAC. "We are happy that now everybody in the state can be served by a station owned and operated by the college."

The new 5,000-watt transmitter is installed in a transmitter house on the college animal husbandry farm.

Four Champions Are Honored

AGRICULTURAL leaders of the younger set received recognition during the annual banquet at the 77th meeting of the Kansas State Board of Agriculture, at Topeka. These leaders are the 4 national winners from Kansas who attended the 4-H Congress in Chicago recently.

Homes, food and clothing were the items for projects that enabled these 4 to win their national awards. This year all winners from Kansas were farm girls.

Included in the group are Lois Crooks, Pomona, Franklin county, who received her distinction for home grounds beautification; Jean Howland, Iola, Allen

county, used food preparation as her winning project; Betty Williams, Oswego, Labette county, also worked on home improvement to gain national awards, and Almeda Stevenson, Mound Valley, Labette county, undertook a clothing project which gave her national listing.

The 4 winners were guests of the Kansas State Board of Agriculture and Secretary J. C. Mohler stressed that it is important to recognize the Kansas winners, for their winning of national awards has brought favorable publicity to the state, and they are the type of leaders who will help make Kansas an even greater agricultural state.



Left to right, top row: Lois Crooks, Pomona, Franklin county, home beautification; Betty Williams, Oswego, Labette county, home improvement. Left to right, bottom row: Jean Howland, Iola, Allen county, food preparation; Almeda Stevenson, Mound Valley, Labette county, clothing project.



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What's Ahead for 1948

By GEORGE MONTGOMERY, Kansas State College



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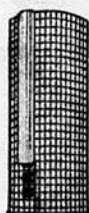
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ANOTHER good year is in prospect for American farmers during 1948.

Farm prices are expected to remain high. But net farm income probably will not equal the record net income of 1947. There will be good demand at relatively-high prices for all that farmers can produce. But farm production during 1948 probably will not equal the farm output of 1947. The outlook for a strong demand for farm products is based on prospects for a continued high level of food consumption in the United States, and prospects for large exports to Europe.

Several factors will tend to maintain a high level of demand for food and other farm products in the United States during 1948. First, there are more consumers than in the prewar period. It is estimated the population of the United States is now 143 millions compared to 132 millions in 1940. The increase has been in towns and urban areas. Since 1940 the city population has increased 10 million, the rural-nonfarm population has increased 4 million, and the farm population has decreased 2½ million. Number of persons engaged in agriculture has decreased 7 per cent since 1940, which means each farmer is producing food for a larger number of nonfarm persons than in 1940.

Second, each person is consuming larger quantities of food and other farm products. The average consumer in 1947 ate about 25 per cent more meat, 25 per cent more poultry and eggs, and consumed about 25 per cent more fluid milk than in the prewar period. Per capita consumption of all food in 1947 was 17 per cent larger than the prewar average. Prospects are that per capita consumption of food will remain high during 1948. A major factor in this high rate of consumption is the high level of income. Total disposable personal income in the United States during 1947 was in excess of 170 billion dollars compared with 75 billions in 1940, and 83 billions in 1929. In 1947 most persons spent a major portion of the income available for spending. Total consumer expenditures in the United States during 1947 were about 160 billions compared with the 1935-39 average of 65 billions.

All Earnings Are Up

The current high level of personal income and consumer expenditures is the result of the high level of pay to the major economic groups. Weekly earnings of factory workers are now about \$50 compared to weekly earnings of \$24 in the prewar period. Net income to agriculture in 1947 is estimated at 18 billion dollars compared to 15 billions in 1946 and 5 billions in the prewar period. Net income to agriculture in 1929 was 6 billions and the peak of World War I period was slightly in excess of 9 billions. Earnings of most industrial and commercial concerns also have been at record levels.

The present outlook points to a continued high level of business activity and employment, at least during the early months of 1948. Many basic industries such as steel, automobile and related industries are expected to be operating at capacity. Production of steel, automobiles, trucks, farm machinery and railroad equipment prob-

ably will be at a record rate. Part of the production, especially of steel and transportation equipment, will be for shipment abroad but domestic users also will buy large quantities of basic materials and equipment. Construction, at least in the early part of 1948, will be at a record rate.

The large quantity of purchasing power, prospects for increases in consumer credit and installment buying indicate a continued strong demand for consumer goods. Purchases of durable goods will be large until consumers decide that prices are too high and begin to buy less or to save larger amounts of their incomes.

Granting of large amounts of credit to Europe will provide additional dollars to be spent for goods in the United States, without corresponding increases in quantities of goods available for purchase.

In addition to a high level of domestic demand, it is expected that large quantities of farm products will be shipped abroad. Large quantities of cereals and other farm products were shipped to Europe during 1947. Exports will continue large at least during the first half of 1948. Exports during the last half of 1948 will be influenced by local production in the various countries of Europe, and also by the quantities available in the United States for export.

New Records Established

Farmers have been producing at a record rate since the beginning of the war. New records of production have been established for almost all commodities. There have been 4 wheat crops in a row which exceeded 1 billion bushels. Prior to 1944 there had been only one wheat crop in excess of 1 billion bushels, which was in 1915. Several corn crops have been in excess of 3 billion bushels. These compare to a prewar average of 2.6 billion bushels. Total production of agriculture in recent years has been about 30 per cent larger than in the prewar period. Part of this increased production has been due to unusually favorable weather which resulted in high yields. However, a major portion of the increase has been due to efforts of individual farmers and to better farming practices. Hybrid corn, improved varieties of wheat, better feeding and improved livestock management are practices which will aid in maintaining a high rate of production in 1948 and in future years.

It is improbable, however, that total farm production in 1948 will equal the production of 1947. Current stocks of feed grains are smaller than a year ago. Feeding ratios are unfavorable or at least less favorable than a year earlier. Livestock numbers are decreasing. A marked reduction in the spring pig crop compared to a year ago is in prospect. Current conditions point to a smaller wheat crop. These situations indicate that the gross income to agriculture in 1948 may be less than the preliminary estimate of gross income for 1947 of nearly 35 billion dollars.

Expenses of farm production probably will continue to increase during 1948. Prices paid by farmers increased more than prices received by farmers

(Continued on Page 11)

Good Record With Calves



Pictured here is Mrs. Ray Lindamood, of Eureka, with her prolific registered Hereford cow, Nadine, 11 years old, and the cow's offspring of the last 18 months. Nadine dropped triplet heifer calves May 18, 1946, and twin heifer calves November 5, 1947. Mrs. Lindamood has been raising registered Herefords for the last 22 years.—Photo courtesy The Herald, Eureka.

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ring 1947. Taxes were an important
of increased expenses. In 1947,
real estate taxes in many areas
Kansas were nearly double those of
1946. Costs of machinery, repairs, and
any other items probably will be
higher in 1948. This indicates that net
farm income may not equal the record
high income of 1947.

Some city consumers may be in-
clined to criticize farmers because of
high food prices in 1948. Retail prices
of some foods, especially meat and
milk, are expected to go still higher.
Urban consumers may not realize that
cost of feed and other expenses of pro-
duction will be higher. Another reason
why prices of these foods are high is
the fact that consumers want to buy
larger quantities of these foods and are
willing to pay higher prices, rather
than restrict their consumption. De-
spite prospects for smaller production
of some of the more important foods,
most consumers will have plenty of
food. It is estimated the 1948 produc-
tion of meat will be about 21½ billion
pounds compared to an average pre-
war production of 16½ billion pounds.
Consumers may complain of prices
they pay for food in 1948, but the aver-
age consumer probably will have more
and better food in 1948 than he en-
joyed in the prewar period.

Business Leaders Optimistic

Current indications point to a high
level of business activity and industrial
production during 1948. Business lead-
ers in general are optimistic—earnings
have been good, problems of supplies
of raw materials and labor are being
solved, demand appears unlimited, and
selling has been easy. Prospect of a
European aid program of large prop-
ortions indicates a continued strong
demand for goods and services. Con-
struction, both residential and com-
mercial, is expected to continue at a
high rate.

In general, business leaders appear
to be more optimistic than a year ago.
When it was quite generally believed
that a minor recession or short-term
adjustment in prices was in prospect
during 1947. Now persons are begin-
ning to believe that current levels of
prices and production may be main-
tained without serious interruption.
Attitude toward grain prices is a good
illustration of the change. A year ago
wheat at \$2 and corn at \$1.40 were con-
sidered highly-artificial prices. Cur-
rently, wheat around \$3 and corn above
2.50 are accepted as reasonable val-
ues, even with relatively little Govern-
ment buying.
There is danger in this changing

What Is Immediately Ahead

WHILE there are many uncertain-
ties in the longer-time outlook
—for late 1948 and beyond—the
price outlook of individual commodi-
ties for the first half of 1948 appears
clear-cut.

WHEAT: Need for food in Europe
probably will maintain wheat prices
near recent levels until the approach
of the new harvest. Heavy exports and
feeding wheat to livestock will reduce
the carryover to a relatively-low level,
but probably not to the record-low
level of last season. Wheat prices for
the period beyond the 1948 harvest will
be influenced primarily by the size of
the crop in the United States, and the

The Cover Picture

Kansas hog production is fol-
lowing the national trend down-
ward. The 1947 fall pig crop in
Kansas was estimated at 661,000
head, the smallest since 1937. The
1948 spring pig crop probably will
be about 20 per cent below the
1936-45 10-year average, accord-
ing to Hubert Collins, Federal-
State statistician for Kansas.

Sows farrowing in the state last
fall were estimated at 101,000 head,
a slight increase over 1946, but
only about two thirds of the 10-
year average.

The Duroc boar shown on the
cover of Kansas Farmer might
well be hanging his head discon-
solately over the prospects for
1948. He is owned by Robert Fobes,
a young Mitchell county farmer
prominent last year in the Beloit
chapter of the F. F. A.

attitude toward prices. For the econ-
omist watching movements and trends
in prices, there is an uncomfortable
similarity to 1919, 1929, and 1937. At
present there is no well-defined danger
signal, nor swinging red light in the
road ahead. Neither was there in 1919,
early 1929, nor in early 1937. With the
high rate at which our economy is
operating, with the sharp increases in
prices which have occurred, and with
the many distortions between income
and prices, a minor disturbance could
easily be snowballed into a recession
of alarming proportions.

How Trend Might Change

If the majority of persons were con-
vinced that lower prices were in pros-
pect, they might turn to saving rather
than continuing to spend as freely as
in recent months. If retailers, whole-
salers and other distributors should
become alarmed, they might cut prices
to dispose of inventories rather than
building up larger stocks as they did
during much of 1947. Reaction to credit
control and just plain resistance of
buyers to butter and bacon at a dollar
a pound may become important busi-
ness factors. And, of course, some of
the inflated values in real estate may
collapse, with repercussions on prices
of sensitive commodities.

It is improbable that prices will con-
tinue to advance as they have since
July, 1946, without at least some tem-
porary correction or adjustment. If, as
adjustments occur in prices of sensi-
tive commodities, a large number of
persons became alarmed about the
general price level, there might be a
reduction in buying of consumer goods.
If contraction in buying resulted in
unemployment, the present upward
spiral of production and prices could be
reversed rather quickly. As is usually
true in a period such as this, the time
of the turning point may be influenced
primarily by how persons react to
higher prices.

While there is no definite indication
of a major turning point in prices,
farmers should be alert to such a pos-
sibility. Farm prices are usually the
first to turn downward. They were in
1920, 1929, and 1937. Usually they go
down faster and farther than other
prices. Farm prices reached a lower
level than prices of other commodities
in 1921, 1932, and 1937. Furthermore,
a relatively small percentage decline
may erase the margin of profit or even
the equity in feeding operations when
livestock and feed are purchased at
high prices. Conservative policy in re-
gard to long-term investments appears
advisable at present.

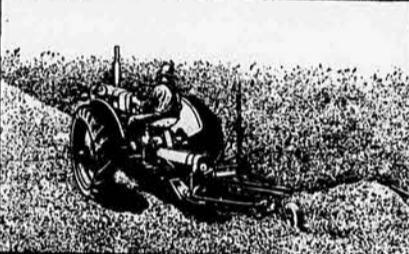
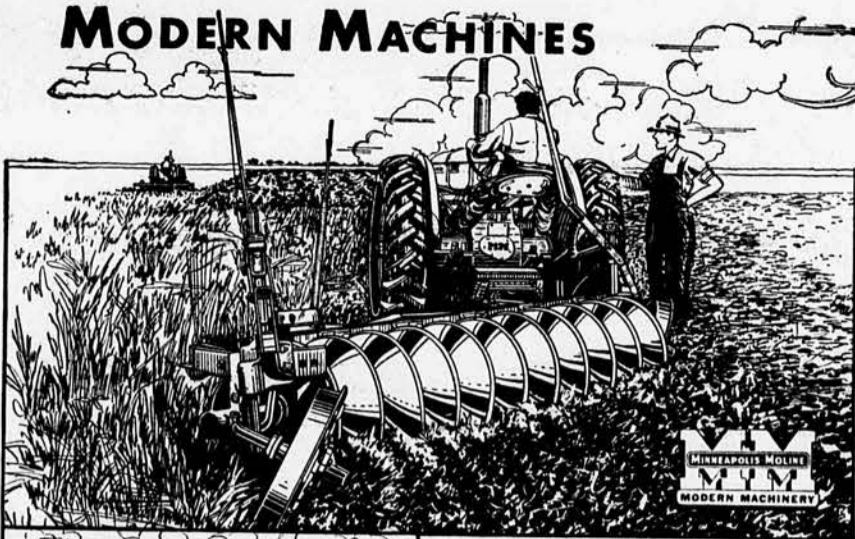
production of wheat in the European
countries which currently are short of
food.

FEED GRAINS: The small corn
crop has resulted in a small supply of
feed grain per animal unit. The high
rate of consumption of meat, milk,
poultry and eggs and the willingness
of consumers to pay high prices for
these products have resulted in a re-
cord level of prices of feed grains. Feed-
ing demand plus an active demand for
corn for industrial uses is expected to
hold feed prices at current levels dur-
ing the late winter and spring. Prices
for corn and other feed grains after
early summer will be determined by
the outlook for the 1948 feed-grain
production, and by prices which con-
sumers are willing to pay for meat,
poultry and eggs.

DAIRYING: Moderate decreases in
milk-cow numbers are in prospect. If
numbers of milk cows on farms on
January 1 are smaller than a year ago,
it will be the fourth successive year of
decline in milk-cow numbers. Probably
most of the decrease in milk-cow num-
bers in Kansas has occurred. Prices of
dairy products are expected to be well-
maintained. Prices during the first 6
months probably will average higher
than a year ago. Seasonal declines in
butter prices probably will be more
than average but less than the large
declines of last season.

LIVESTOCK: Market supplies of
meat animals will be smaller during
1948 than during 1947. How much
smaller is difficult to estimate. Present
indications are that the reduction in
total meat supplies will be less than
10 per cent—probably about 6 or 7 per
cent
(Continued on Page 28)

MODERN MACHINES



AND MEN WITH A MISSION

The farmer like any other businessman
hires help, buys machinery, makes plans,
schedules his work, processes and markets
his produce. In addition he coordinates
all the intricate details for running the
farm so he is the executive manager of
his business as well. This is a large and
comprehensive job by anybody's stand-
ards.

In years past many a farm lad has for-
saken the farm in search of a less arduous
means of earning a livelihood. Lately
modern farm machinery has progressed a
long way toward the elimination of time
consuming and "back breaking" jobs
that all farmers considered out and out
drudgery. To get the job done in a hurry
with a minimum of hard work MINNE-
APOLIS-MOLINE has designed and pro-
duced a well rounded line of MODERN
MACHINERY. There is still plenty of hard
work on most farms and therefore Minne-
apolis-Moline is doing its utmost to pro-
duce more and more modern machinery
so that the farmer may overcome most of
the adversities and hardship of his
MISSION in supplying the ever increasing
demand for food and fibre.

If your present equipment doesn't
quite fill the bill you may obtain full par-
ticulars on these and all MM machines at
nearest MM Dealer . . . remember, MM
MODERN MACHINERY is worth waiting for.

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Manure
into
genuine
"PAY
DIRT"**

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rid of. Yet properly applied on the land,
it adds many real dollars to farm profits.

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complete fertility benefits from nature's
own great soil builder. The time-saving
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these top quality machines, turn manure
into genuine "pay dirt" by reducing
operating expense to the lowest possible
cost-per-load.

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MODEL 14
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features which have made
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name in spreaders. Or write
direct for free literature de-
scribing model that interests
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small tractors. A superb four wheel model
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that enables any NEW IDEA Spreader to handle
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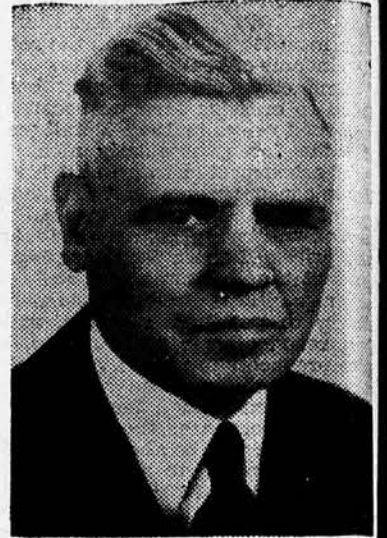
First Choice is!
Butter-Nut
"The
Coffee
"
DELICIOUS

To Hold Farm Week at Kansas State College

AGRICULTURAL Week at Kansas State College, February 3 to 6, will feature poultry, dairy, livestock, agronomy, beekeepers, and rural pastors' programs, and meetings of various breed associations and the Kansas Crop Improvement Association.

The annual meeting of the Kansas Purebred Dairy Cattle Breeders' Council is scheduled for 10 a. m. February 2, the day before the opening of the 4-day conference.

"This is the 80th year in which Kansas State College has co-operated with the people of the state in conducting Farm and Home programs," says Dean L. C. Williams, of the extension serv-



R. I. Throckmorton

Dairy Herd Wastes, C. T. Conklin; Vitamins A and D for Farm Animals, G. C. Wallis, Standard Brands, Inc., New York City; Things Learned About the Operation of Milking Machines, G. H. Beck, K. S. C.

Agronomy, February 4—Annual business meeting Kansas Hybrids Association; Use of Fertilizer on Hybrid Corn, L. E. Willoughby and E. A. Cleavinger, K. S. C.; Results of Corn Yield Tests in 1947, A. L. Clapp, K. S. C.; Progress in Corn Research, L. A. Tatum, U. S. D. A., Manhattan; Certification of Hybrid Corn in Illinois, J. C. Hackleman, Urbana, Ill. February 5—Business meeting of the Kansas Crop Improvement Association, 10 a. m. Afternoon: Problems of Distributing Certified Seed Through the Seed Trade, M. A. McCall, U. S. D. A., Beltsville, Md.; Increase and Distribution of New Crop Varieties, J. C. Hackleman; It's Still Kansas or B-U-S-T, George D. Scarseth, Lafayette, Ind. Evening



M. A. Seaton

ice. He adds that the first farmers' institute in the world was conducted in Kansas.

The programs, in brief: Poultry, February 3—Recent Plans for the Production of High-Quality Market Eggs, M. A. Seaton, K. S. C.; Need for Improved Quality of Market Eggs and Poultry, Harry Lewis, Perry Packing Plant, Manhattan; How Do the Eggs You Take to Market Grade According to Government Standards, C. L. Gish, K. S. C.; Research Work Now in Progress and Planned for Future Study of Market Eggs, J. W. Koudele, K. S. C.; Results of Four Years' Study on Effects of Season and Weather Condition on the Laying Flock, Dr. D. C. Warren, K. S. C.; Observations of an Extension Poultryman, M. E. Jackson, K. S. C.; Adequate Diets of Growing Chicks and Laying Hens, Dr. H. S. Wilgus, Colorado A. & M.; Importance of Using High-Quality Ingredients in the Poultry Ration, L. F. Payne, K. S. C.

Dairy, February 3—Meeting of state breed associations, 9:30 a. m. Afternoon: Milestones on the Path of Dairy Progress, C. T. Conklin, Ayrshire Breeders' Association, Brandon, Vt.; fieldman's forum, February 4—Udder Edema Problems, F. C. Fountaine, K. S. C.; Future of Research and Its Effect on the Future of Agriculture, R. I. Throckmorton, K. S. C.; Reducing



L. E. Willoughby



H. E. Myers



R. F. Cox



L. F. Payne

presentation of premier seed grower awards; address, A Plowman's Philosophy, Mr. Scarseth; president's message, Charles Topping, Lawrence. Beekeepers, February 4—The Need for Improvement of Strains of Honeybees, R. L. Parker, K. S. C.; How Can Present Strains Be Improved, William C. Roberts, Madison, Wis.; Effect of Injurious Insects in Alfalfa on Blooming and Seed Setting, W. W. Franklin, K. S. C.; Bee Equipment for the Situation for 1948, F. L. Swann, Council Bluffs, Ia.; What Does the Commercial Honey Producer Want in a Strain of Honeybees, John C. Dods, Mo.; Genetics and Strain Improvement Plans and Work of the Division of Bee Culture, Bureau of Entomology and Plant Quarantine, Mr. Roberts.

Marketing Director Starts February 1

Director of Marketing is the title Kimball L. Backus, of Kansas City, Kan., will assume on February 1, 1948. Directing this new division under the Kansas State Board of Agriculture will be an important job that is of major importance to the people of Kansas, according to J. C. Mohler, secretary of the board, who made the announcement of Backus' appointment. The Marketing Division was established by the Kansas Legislature in 1947 to assist farmers in obtaining better recognition of their products, as well as improving marketing facilities and developing maximum efficiency in transporting farm produce from the producers to consumers. Mohler pointed out that Kansas is one of the most important agricultural states in the nation, and the creation of a Division of Markets is another step in the advancement of our agricultural industry.

Mr. Backus is not new to the marketing field, having had extensive experience in such work, which will be of great aid to him on his new job. For 17 years Mr. Backus served as county agricultural agent for Wyandotte county, carrying out all the functions such a position requires. For 6 months of those 17 years he served as director of marketing for the Kansas Food Terminal which came to an end when the market was closed. A graduate of Kansas State College, Mr. Backus majored in agricultural

Livestock, February 6—Sheep Breeding Program for Kansas, R. F. Cox, K. S. C.; Fundamentals in Breeding Beef Cattle, J. J. Moxley, Council Grove; Progress in Swine Breeding, G. C. Dickerson, Missouri University; Presentation of Kansas Swine Production Winners, C. G. Elling, K. S. C. and H. W. Atzenweiler, Kansas City, Mo.; Quarter Horse Shows and Showing, R. B. Cathcart, K. S. C.; Unsoundness in Horses, C. W. Campbell, K. S. C.; demonstration on quarter horse selection, O. B. Burtis, Manhattan; meetings of state breed associations.

Rural Pastors, February 3—Responsibility of the Rural Church, Dr. Gene W. Wetherell, Columbia, Mo.; Influence of the Rural Church on Community Attitudes, Dr. Edwin L. Becker, Indianapolis, Ind.; What Kansas State College has to offer the rural church in extension of community influence: Institute of Citizenship, Dr. Robert A. Walker; Agricultural Experiment Station, Dr. H. E. Myers; Kansas 4-H Clubs, J. Harold Johnson.

At a 6 o'clock dinner February 3, Dr. D. L. Macfarlane, president, Kansas State Teachers College, Emporia, will discuss the rural church, and Very Rev. Thomas A. O'Conner, S. J., rector of St. Mary's College, St. Marys, will speak on the rural family. President Milton S. Eisenhower, of Kansas State College, will preside.

February 4—The Church's Community Program, Doctor Becker; The Program of the Rural Church, Doctor Wetherell; The Church in Action, Rev. George J. Beebe, Sylvia; Rev. Owen M. Paul, Leoti; Rev. Ignatius Mazo, Wilson; T. Russell Reitz, Manhattan; The Rural Church of the Future, Doctor Wetherell; Developments in Recruitment and Preparation of a Rural Ministry, Doctor Becker.

economics and received a bachelor's degree in agriculture. In addition to taking several extension courses at the University of Kansas, he has studied at the Colorado Agricultural College working on marketing problems, and he plans to obtain his master's degree from there.

Mr. Backus is expected to move his wife and two children to Topeka to make their home shortly after assuming his duties with the board.

Bull Goes to College

CK Cruiser D 34th, a bull produced and shown during 1946 by the CK Ranch, Brookville, has been moved from the ranch to Kansas State College, at Manhattan, where he will be mated to a number of the college Hereford cows.

During the 1946 show season "The 34th" was a strong show bull and won 3 championships and 2 reserve championships in 5 of the major cattle shows. He is a bull of exceptional depth of body and quarter.

This is the second year K-State has had a CK bull for use. Last year the college used CK Baca Royal and now has a promising group of calves by him. At the ranch "Baca" is now being mated to 20 heifers which are to be sold in the CK sale, February 21.

Rely on Good Pasture

Pasture is the dairyman's first necessity. That is why Mr. and Mrs. Fred Hubbard, Atchison county, have all but 30 acres of their quarter section of land devoted to a variety of pastures for their herd of Holstein cows.

Besides native pastures consisting largely of clovers, crested wheat grass and lespedeza, they depend on sweet clover, domestic rye grass and cereal grains. Last year they had 8 months of grazing for their cows. With more efficient handling of these varieties, plus some Sudan, they expect to stretch their grazing season to 10 months.

Mrs. Hubbard points out that dairying is an everyday job, but letting cows harvest their own feed makes it easier.

Next in importance to good pasture is a silo, they believe. Due to unfavorable weather they lost some alfalfa hay last spring. If they had had a silo they believe they could have saved this feed by making legume silage.

Even the most of their acreage is in pasture, the Hubbards are conscious of soil conservation. When terraces are needed they have built them.

Five Star HARVESTER

PICK-UP HARVESTER

ROW CROP HARVESTER

This basic harvester with attachments gives five-star service. Separate power eases tractor load.

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SHREDS FEED

PORTABLE GRINDER
GRINDS GRAIN

FORAGE HARVESTER

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Pick-up Harvester: Skyline picks up and shreds field-cured hay, green or partially cured forage from windrow. Harvests 6 to 10 tons of windrowed alfalfa per hour. Row Crop Harvester: cuts and shreds 10 to 14 tons of ensilage per hour ready for blower. Forage Harvester: cuts and shreds green forage crops for dehydration or ensilage. Portable Grinder: grinds grain and roughage all winter.

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Rush details on your "special offer." I farm _____ acres
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ing SKELGAS for this—plus such modern SKELGAS range features as automatic temperature control. Yes, SKELGAS cooking is tops... for cooking ease, cooking comfort, cooking economy! Discover it today!

TUNE IN—NBC, 7:00 A.M.
WMAQ—Chicago, 6:45 A.M.

Lloyd Burlingham
With farm news and weekly winners in the Skelly Agricultural Achievement Award, every Saturday.



Alex Dreier
With the first network news commentary of the day, Monday through Friday.



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Makes Farm Pay For Modern Improvements

THERE have been some changes made on the Ed Dickerson place, in Labette county, since he purchased the 280-acre farm in 1941. The home is modern and comfortable. There is a new barn with grade-A milk parlor included. And much of the land has been cleared of the hedge brush that was threatening to take the place.

It took a lot of money to make these changes. But the important point is that the farm paid for the improvements thru good management that add up to the term "Balanced Farming."

Main program is dairying, with a herd of about 24 Guernsey cows providing the milk and supplying the major portion of the farm's income. It was good soil, Mr. Dickerson says, but the farm was badly run down when he bought it. To get it back into top production he started raising sweet clover. Since 1941 all cropland has had sweet clover on it at least once.

The native pastures of bluegrass and lespedeza were not producing well enough to suit him so he put on 25 pounds of available phosphate. That would be 125 pounds of 20 per cent. He didn't keep an accurate check on the difference it made, but his cows showed a distinct preference for the fertilized acreage.

Soon after moving on the farm he tried to get alfalfa started. There were

a few wet spots where he thought alfalfa might not stick, so he sprinkled in some brome seed, too. After about 3 years the alfalfa would thin out but the brome kept coming right along and the cattle liked it. He figured that was reason enough to continue. Each year now he tries to seed some additional brome and alfalfa, 5 pounds of brome an acre with 12 pounds of good alfalfa seed. In addition to lime, this crop gets an application of phosphate, 125 pounds again.

The first 3 years after seeding, he uses the combination for hay. It is chopped and blown into the barn for the milk cows. After that when alfalfa tends to thin out and the brome thickens it is used for pasture. Along with planting some of this mixture each year, he plans to plow up some, too. Seeded to sorgo the first year it makes excellent feed to put in his silo.

A wheat check on this farm last year provided sufficient evidence that Mr. Dickerson is getting a lot of good from the phosphate he uses. Wheat with no treatment made 15.9 bushels an acre. Where 50 pounds of 60 per cent phosphate was added it made 36.4 bushels.

Nearly all of the 155 acres of cropland has been terraced. When he hauls manure on his cropland, Mr. Dickerson says he is sure it will stick and not wash away.

Kansas Holsteins Prove Their Worth

OUTSTANDING production records recently have been recorded for a number of registered Holstein-Friesian cows in Kansas. Their records, as announced by the Holstein-Friesian Association of America, are as follows:

Owned by George E. Stone, Sharon—Hedgefield Prairie Star Burke, 625 pounds butterfat, 17,168 pounds milk, 365 days, 2 milkings daily, 7 years 1 month old.

Owned by Ernest A. Reed & Sons, Lyons—Steinshire Bessie Tess, 608 pounds butterfat, 17,105 pounds milk, 315 days, 2 milkings daily, 4 years 4 months old; and Mt. Joseph Princess, 605 pounds butterfat, 16,924 pounds milk, 314 days, 2 milkings daily, 4 years old.

Owned by T. Hobart McVay, Nickerson—Macksumum Supreme Fairy, 594 pounds butterfat, 17,943 pounds milk, 365 days, 2 milkings daily, 10 years 2 months old.

Owned by Leo H. Hostetler, Harper—Royal Design Johanna Payanna, 572 pounds butterfat, 17,267 pounds milk, 304 days, 2 milkings daily, 3 years 9 months old; and Leohost Design Inka Nosy, 557 pounds butterfat, 13,585 pounds milk, 285 days, 2 milkings daily, 5 years 10 months old.

Owned by M. A. Shultz & Son, Pretty Prairie—Onabank Riga Piebe, 564 pounds butterfat, 17,167 pounds milk, 357 days, 2 milkings daily, 8 years old;

and Onabank Fobes Favorite, 564 pounds butterfat, 17,132 pounds milk, 365 days, 2 milkings daily, 4 years 6 months old.

Owned by R. L. Evans, Hutchinson—Lawnwood Marathon Rosetta, 550 pounds butterfat, 15,265 pounds milk, 316 days, 2 milkings daily, 9 years 9 months old; and Pay Line Tess, 520 pounds butterfat, 14,440 pounds milk, 313 days, 2 milkings daily, 12 years old.

Owned by The Security Benefit Home & Hospital Association, Topeka—SBA Irene, 484 pounds butterfat, 13,100 pounds milk, 358 days, 2 milkings daily, 2 years 4 months old; and SBA Inkra Topsy, 466 pounds butterfat, 12,497 pounds milk, 341 days, 2 milkings daily, 4 years 8 months old.

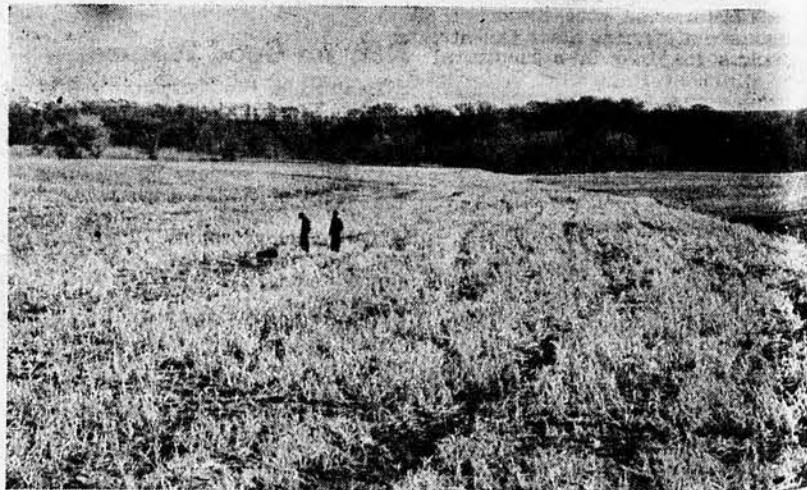
A High Record

A registered Guernsey cow, Ransom Fidget's Faye, owned by W. G. Ransom, Ransom Farm, Ransomville, has completed an outstanding Advanced Register record of 14,928 pounds of milk and 678 pounds of butterfat starting as a junior 3-year-old.

Faye is a daughter of the famous Guernsey sire, Argilla General Lee, that has 28 sons and daughters in the Performance Register of The American Guernsey Cattle Club.

This record was supervised by Kansas State College.

Stops a Ditch



When Andy Olson, Morris county, bought a 135-acre tract of plowland adjoining his stock farm, there were 2 large and long ditches cutting thru it to the creek on the far side. Last spring he leveled these gullies. Then in early summer seeded them to sorgo. Last fall a combination of brome grass and alfalfa was seeded into the sorgo stubble. There will be a broad stretch of grass leading to the creek now instead of an ugly ditch. The picture shows one of those drainage areas, nearly a quarter of a mile long, as it appeared last fall with sorgo stubble still on it for protection.

A Country Woman's Journal



By MARY SCOTT HAIR

*One look at chocolate fingerprints
On ivory paint, and I predict
Without a glance at smeary cheeks,
The mixing bowl's been licked!*
—Mary Holman Grimes

ALMOST overnight my world has become a world where varying shades of gray predominate. The broad expanse of sky tucked in by hills is one shade of gray. Before the sun comes up and on days when there is no sun, as now so many of them are, the dawn is still another shade of silver-gray. Leaves on the gaunt mullein stalks look like a dove's breast, soft and plushy gray in the twilight. When the wind rustles the cornstalks, so lately burdened with yellow ears, gray shadows merge into shape as the cows wend their way toward the shelter of the big barn on the hillside.

And thus the symphony of winter begins! Once more we narrow our interests down to a world enclosed by our four walls with a fireplace to keep us snug and warm. Now we find time to do the many small tasks we put aside for just such times. Mending, hastily discarded with the worn-out plea, "There's no time for that now," is brought to the fireside and taken care of. Small gifts are in the making for always there are birthdays and special occasions where gifts are needed. And there are papers and magazines I've been saving against the time when days are dreary and much too long.

Best of all, winter is the time for dreaming! Sitting on the floor in front of an open fire, anything can happen, almost. You can dream of the past and plan for the future while you're enjoying the present! Recently I enjoyed a session in front of my fire thinking about the good times I've enjoyed as a result of a rather unusual Christmas gift.

My cousin Lou lives on a big farm a few miles north of our little sheepfold tucked away in the hills. She has a lovely big home full of all kinds of conveniences and pretty furniture. But the nicest thing about cousin Lou is her great big heart, brimming over with love for folks! She enjoys a good time and likes to share her fun with others . . . that's why she gave me a year's membership in the farm club she belongs to. And that membership for last year, which she has now renewed for the coming year, was one of the nicest Christmas presents I've ever had!

Our club has a nice big clubroom with a piano, comfortable chairs, room for quilting and a corner cupboard with dishes. I'll have to confess I'm not a very good member for about all I ever do is play the piano for special meetings. In our part of the country it seems that people who play the piano are in the minority. But I'm always happy to oblige, in return for the kindnesses shown me.

Sometimes the group attends county and district meetings in different parts of the state. Last summer we visited the different industries in a nearby city and spent an enjoyable afternoon at the zoo. Such trips give the members something to plan for . . . after all, life would be an endless round of chores if there wasn't something to look forward to!

At a recent district meeting we had the pleasure of hearing our state club president, Mrs. Maggie Brown, tell of

A New Play

It is not too late to order the clever play, "Mr. Ground Hog's February Party." The 5 characters in the cast — Mr. Ground Hog, Abraham Lincoln, George Washington, Mr. Longfellow and Mr. Handel—make the play quite appropriate for February entertainment. We shall give all orders for the leaflet prompt attention. Address Entertainment Editor, Kansas Farmer, Topeka. Price 5c.

her trip to Europe. The account of her visit to Queen Wilhelmina of Holland has been publicized to such an extent that I'm sure most farm women are familiar with the story. Mrs. Brown spoke with sincerity, in a plain, everyday manner we are all familiar with. Her friendly smile and gracious manner bespeak the perfect guest, whether at home or abroad.

She told us about a church service she attended and this, I think, was the part of her talk I liked best. The girl who preached the sermon that Sunday morning had served 2 years in a concentration camp. When she was finally released, broken in health but not in spirit, her one desire was to take up her ministerial work and training where she left off. The sermon was delivered from a stretcher, to delegates from countries all over the world, gathered with one intent and purpose . . . to maintain and preserve peace. No wonder her text made such an impression on the listeners! It was Matthew 5:9. Mrs. Brown said she compared peace to a seed that is planted, for a seed is the greatest wonder not achieved by human hands. She told the women, "Don't dream too much of a happier future but serve today. Go on with your peacemaking!"

Long Live the Lean

"Thousands of men and women still do not realize that pounds of extra flesh must be paid for by fewer years on this earth, even the human experience has long taught this and life insurance statistics prove it. Lean bodies of both men and animals live longer than fat bodies and remain healthy and vital longer." This statement comes from Dr. C. M. McCay, of the Cornell Experiment Station, whose long series of experiments on the aging of laboratory animals show why a premium should be placed on keeping the body thin the well-nourished in the necessary foods.

Middle age is the time when many people begin adding surplus pounds. Doctor McCay kept one group of animals thin after middle age by exercise, forcing them to run in a rotating wheel. He kept another group thin by restricting the calories in their ration. A third group was allowed to fatten at will. The 2 thin groups lived much longer than the fat group.

He also has found that animals kept on a diet low in sugars and starches lived to an age that corresponds to 100 or 150 years in humans. They had less disease and were more healthy and vigorous than those fattened on extra calories. "Overnutrition may be just as dangerous to health as undernourishment or food deficiencies," says Doctor McCay.

Those Pockets

THREE TIPS IN MAKING

For real durability slant a pocket downward toward the side rather than cutting it straight across. They're safer because they will not catch on so many handles and doorknobs and they're more convenient to get your hand into.

Make them roomy enough for a clenched fist to go in and out easily. Place them on a part of the garment which fits loosely to the body. Otherwise even a handkerchief will bulge and strain the garment.

Reinforce top corners where the strain is greatest. A strip of tape, basted on the underside of the dress across the top pocket line, can be stitched on with the pocket to give corner strength. A double row of stitching across the top of the pocket gives added strength against the pull at this point.

Need Freezing

If parsnips lack that fine sweet flavor, it may be that they were dug from the garden too early. Exposure to cold and some freezing changes the starch in parsnips to sugar. A minimum of 2 weeks in freezing weather is the formula for fine-tasting parsnips. Many farm families leave the parsnips in the ground and dig them as they are eaten. Leaving them in the ground saves the time and labor of storage and does no harm to the parsnip.

for speedy baking



Fleischmann's Dry Yeast is right there when you need it



● Get it today! Fleischmann's Fast Rising Dry Yeast, the modern baking discovery that keeps fresh in the cupboard for weeks—always "on the spot" for extra-quick baking, extra delicious results. IF YOU BAKE AT HOME—lay in a good supply of speedy acting Fleischmann's Fast Rising Dry Yeast—use it as you need it. At your grocer's.

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• Wherever you decide to go—east, west, or close to home—

grand opportunities await you in the Regular Army. The comradeship of America's finest young men, high pay, the best medical and dental care, almost unbeatable retirement benefits and the broadening experience of travel and education—all will be yours.

• Find out if you can measure up to a Regular Army career at your nearest U. S. Army and Air Force Recruiting Station.

**U. S. ARMY AND U. S. AIR FORCE
RECRUITING SERVICE**

**CAREERS WITH A FUTURE
U. S. Army and
U. S. Air Force**

Brand NEW for '48

New all through!

NEW ENGINES! Brand new Six, two power-packed new V-8's. Up to 145 horsepower! Dozens of new advancements!

NEW CABS! Million Dollar Cab with living room comfort! New, exclusive Level Action cab suspension that insulates cab from vibration and frame weave!

NEW FRAMES! Tougher, more rugged than ever! New axles, new steering, new brakes. They're new all through!

NEW BIG JOBS! Two of 'em . . . biggest Ford Trucks ever built! Gross vehicle weights up to 21,500 pounds. Tires up to 10.00-20. Brakes up to 16" x 5". 145 H.P. V-8 engine.

NEW MODELS! Five new series . . . more than 115 chassis-body combinations! There's a Ford Truck for your hauling needs!

Listen to the Ford Theater over NBC stations Sunday afternoons 5:00 to 6:00 p. m., Eastern Standard Time.



Bonus* Built—AMAZING RESULT OF AN ENGINEERING PRINCIPLE

The great new Ford Trucks for '48 are revolutionary not only because they are *new all through*, but because they are the amazing result of a time-proved truck engineering principle. This principle is Ford **Bonus Built** construction!

Bonus Built = Extra Strength! Every single one of the great new Ford Trucks for '48 is designed and built with *extra strength* in every vital part—that's **Bonus Built!** But

that is only *part* of this vital truck building principle . . .

Bonus Built = Work Reserves! This *extra strength* provides **WORK RESERVES** that pay off for truck operators in two important, money-saving ways . . .

Bonus Built = Greater Range of Use! **Bonus Built** **WORK RESERVES** give Ford Trucks a *greater range of use* by per-



FORD *Bonus Built* TRUCKS

BUILT STRONGER TO LAST LONGER



WHAT ASSURES LONGER TRUCK LIFE . . . and ONLY Ford Trucks Have It!

mitting them to handle loads beyond the normal call of duty! Ford Trucks are *not* limited to doing one specific job!

Bonus Built = Longer Life! What's more, these WORK RESERVES allow Ford Trucks to relax on the job . . . to do their jobs easier, with less strain and less wear. Thus,

Ford Bonus Built Trucks last *longer* because they work *easier*!

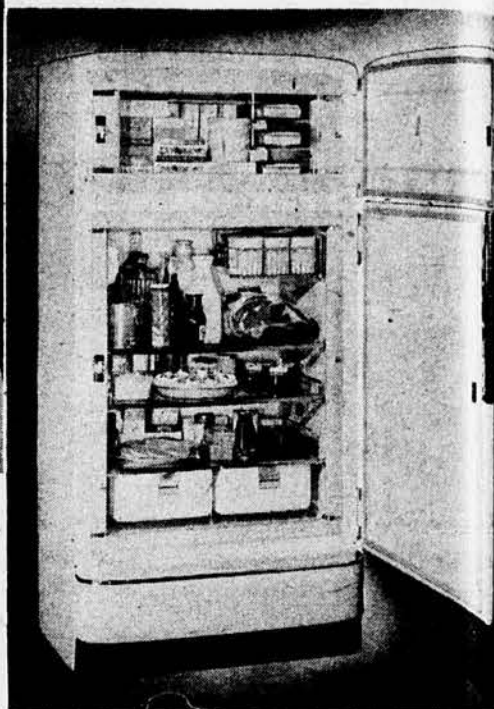
Here's the top truck value of the year! See the great new line of Ford Bonus Built Trucks for '48 now! Don't settle for less—get the only truck that's Bonus Built! It's Ford!

***BONUS:** "Something given in addition to what is usual or strictly due."
— Webster's Dictionary

LIFE INSURANCE EXPERTS PROVE . . . FORD TRUCKS LAST UP TO 19.6% LONGER!



Left: Automatic clock control is an answer to the homemaker's dream of a cooking unit that is fully automatic.



The combination refrigerator-home freezer is just right for the homemaker who uses a commercial locker.

Here They Are!

Advanced Designs for Convenience

By FLORENCE MCKINNEY

WITH electric lines spreading to the most remote sections of farming areas, better rural living spreads likewise. No doubt about it, electricity can do more than any other single item to make for comfortable living. In the home, in the farmyard, it spreads light and runs equipment.

In Kansas, about 25,000 more farms are electrified than in 1941. Never in the history of home equipment has there been such a pent-up demand for electric equipment. Manufacturers have hastened to supply this demand with new type up-to-the-minute equipment—things from the best in combination refrigerator-home freezers to electronic blankets.

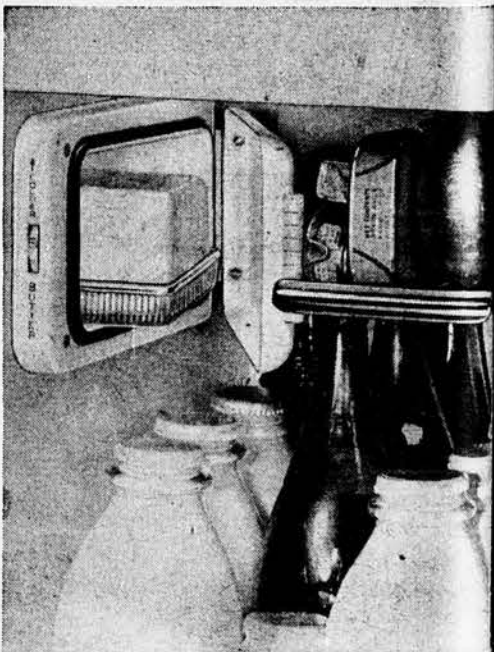
Today's farm kitchen with its worksaving, automatic electric appliances can match the smooth-running operation of the 1948 farm with its modern machinery and farming methods. In addition to new-model electric appliances, modern food packaging, new fabrics and other innovations bring ease of work to farm homemakers comparable to that of their city sisters.

Some home freezers are especially built to store gallon containers of milk, large crocks of butter

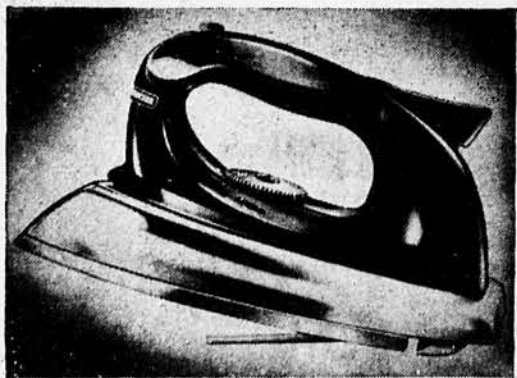
and other farm products of equal size. Casseroles are just the thing for those quick one-dish meals, light enough to be easily carried to the table, and in a 4-quart size sufficient to handle a casserole meal for eight.

The refrigerator-home freezer combination has pleased so many rural homemakers that it may turn out to be the most popular type of home refrigeration. It still, of course, necessitates use of a locker in town, which is satisfactory to those who depend on the locker management to cut and wrap the newly-butchered pork and beef. Rural homemakers are somehow weaned away from the too-hard work of taking care of newly-butchered animals. With the combination refrigerator-freezer, a small supply of frozen food can be transferred from the commercial locker and stored in the freezer compartment until it is needed. Many farm homemakers prefer this type. It has advantages.

One of the most desirable features in refrigerators is a butter conditioner, a device to keep butter at smooth-spreading temperature. It is built into the left wall of the refrigerator and holds a pound of butter. This feature, [Continued on Page 20]

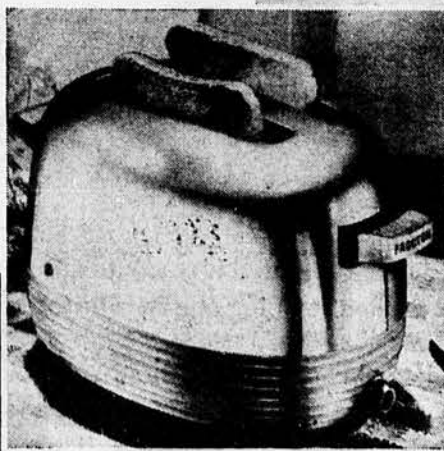


Above: The butter conditioner keeps butter at proper temperature for spreading.



Above: A never-lift iron permits sit-down ironing. A single leg lowers when a button is pressed and the iron stands until released.

Below: The electric casserole makes a one-dish meal a joy to prepare and serve.



Above: A new pop-up toaster has a special attachment which reheats cold toast.

Procter & Gamble's Amazing New DISCOVERY

means a new kind of washday for you!

IT'S TIDE

... you've never used anything like it!

Discovered as a result of wartime research, Tide does *what's never been done before*—washes clothes cleaner than any soap, yet leaves colors brighter! The minute you put Tide in water, you'll know it's completely NEW! Tide gives oceans of instant suds—even in *hardest* water! And those wonder suds look different . . . feel different from any soap you've ever used! Only Tide can make all these promises:



1. Washes clothes cleaner!

Yes, cleaner than any soap made! Even greasy overalls and grimy work shirts come cleaner! Tide not only leaves clothes free from ordinary dirt, but actually removes dingy soap film, as well. That's why Tide washes *cleaner*.



2. Actually brightens colors!

By removing cloudy soap film, as well as the ordinary dirt, Tide makes soap-dulled, faded-looking colors perk up like magic! You can see the difference!



3. Never "yellows" white things!

Tide is a whizz for keeping all your white things sparkling white, week after week! Tide can't turn them yellow, no matter how often they're washed or how long they're stored!

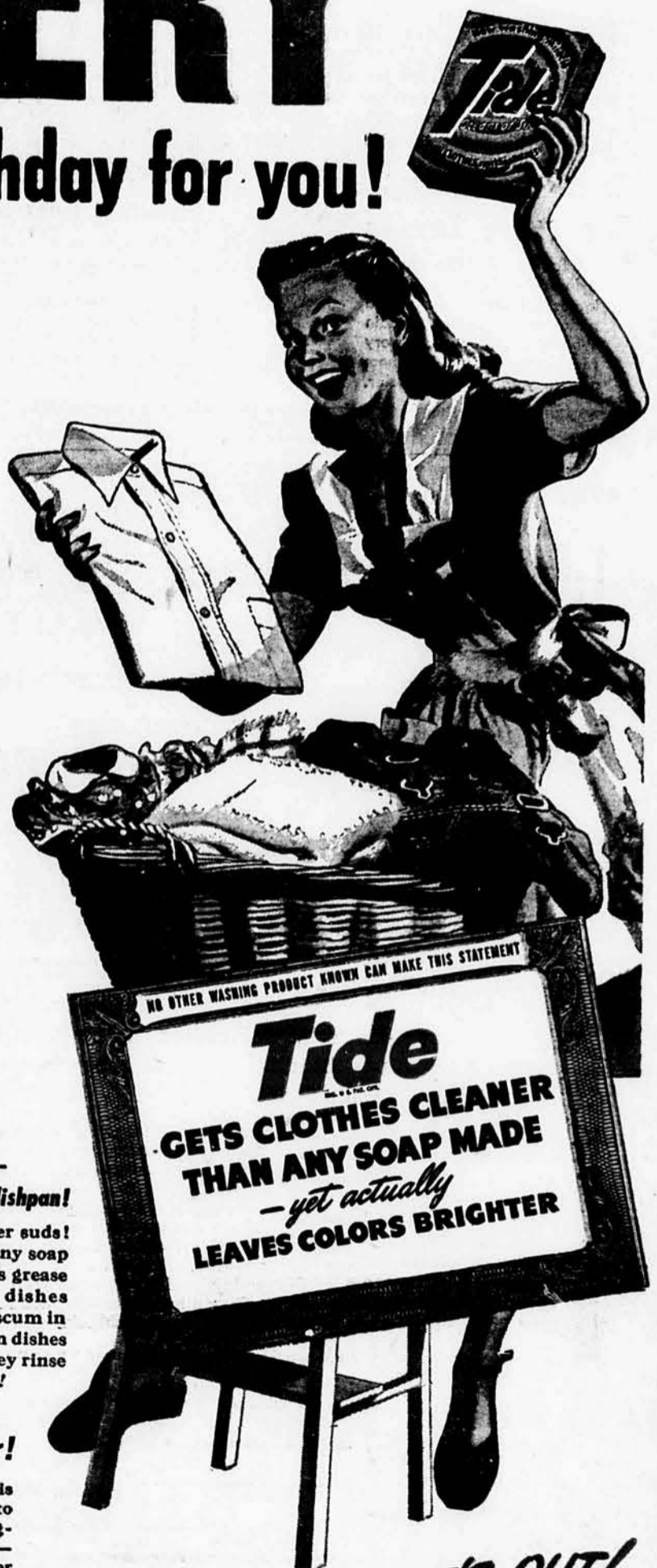
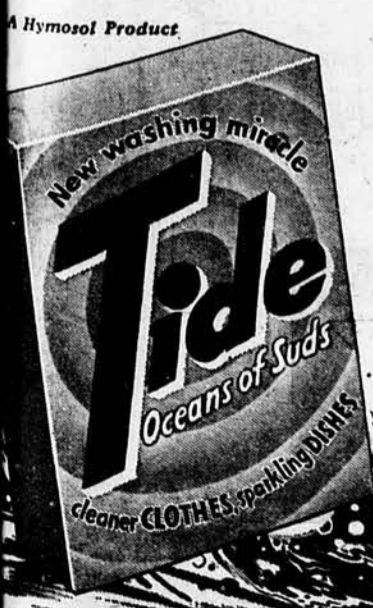


4. Gives more suds— Prove it in your dishpan!

Kind-to-hands suds! Faster suds! Longer-lasting suds than any soap in *hardest* water! Tide cuts grease like magic . . . washes dishes cleaner than any soap! No scum in the water! No cloudy film on dishes and glasses! That's why they rinse and dry so *sparkling clear*!

EXTRA miracles in hard water!

Tide's performance in hard water is so amazing, you have to see it to believe it! Oceans of rich, long-lasting suds billow up instantly—even in *hardest* water. No water softeners needed—Tide does it all!



TIDE'S IN - DIRT'S OUT!

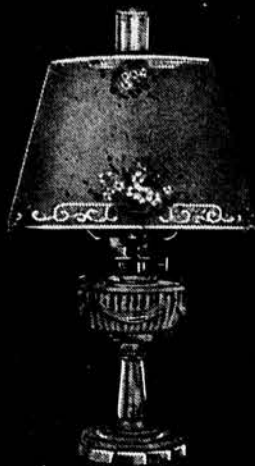
TIDE IS A WONDER FOR CLEANING MILKING UTENSILS, TOO . . . QUICK! EASY! NO SCUM OR MILKSTONE!

Here's **MORE LIGHT FOR LESS MONEY**

Aladdin

kerosene mantle lamps

50 hours of light—white and steady as electricity on only 1 gallon of kerosene! Uses only 6% kerosene and 94% air. No pumping up, no odor, no noise, no smoke. Lights instantly and floods room with soft, white light that's easy on your eyes. In constant use for over 40 years!



electric lamps

The famous Aladdin quality, style and value in fine electric lamps. There's a lamp and matching, colorful Aladdin Whip-O-Lite shade for every room in your home. See them now at your Aladdin dealer.



electric converter

Changes an Aladdin Kerosene Lamp to electricity in a jiffy. Simple to use, inexpensive, works with complete efficiency. Can be easily removed—and kerosene used again—if power lines fail.

THE MANTLE LAMP COMPANY OF AMERICA • CHICAGO, ILL.

Henry Field's Friendship Offer

Gorgeous Camellia Type Tuberos Rooted Begonias

EASY TO GROW Indoors or Out

varied colors

4 FOR 10¢

Begonias are the glamour-flower of any collection. I want all my friends to have them and enjoy their beauty, so I'm making this special friendship offer.

With their waxy petals and large, camellia-like blooms, Begonias are about the prettiest flowers, ever. Once you start growing these beauties, you'll always want some in your garden or window-box. Easy to grow. Fine for those moist spots with a little shade (where most flowers don't do so well).

Along with these four Begonia bulbs, I'm sending a subscription to my magazine "Seed Sense". It's free—and published solely in the interests of all my garden-minded friends. Also, I'm including my big, new catalog. Just send ten cents today, and my special offer, subscription and catalog will be mailed to you, postpaid.

HENRY FIELD
SEED & NURSERY CO.
1719 Elm
SHENANDOAH, IOWA

Dear Henry:
Please rush me the four Begonia bulbs exactly as described above... together with my FREE subscription to "Seed Sense" and my FREE copy of your big, new catalog. I enclose ten cents for the bulbs.

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POSTOFFICE _____ STATE _____

HIGH YIELD HYBRID CORN

Steckley

TOPS FOR CROPS SINCE 1931

See your Steckley Dealer today... Before his supply of high quality seed is exhausted.

Don't miss planting your favorite Steckley Hybrid IF your dealer is out of flat seed.

Rounds are cheaper per kernel than flats and will plant more uniform. Assure yourself of a bigger yield per acre. Order your Steckley Hybrid Seed Corn NOW.

2416 N. STREET
LINCOLN, NEBRASKA

Achievement Day a Treat

By RUTH McMILLION

THIS year Clark county really did itself proud on its Achievement Day. The idea for a theme was a result of Mrs. Leona Simmons' trip to the regional UNESCO meeting in Denver last summer. After her return 10 units studied a foreign nation, then portrayed that nation at the Achievement Day dinner. Consequently, 10 nations were represented and the women entered wholeheartedly into the spirit of make-believe.

Holland was there with white-winged caps, Mexico was gala with a tambourine dance, China served tea, and Japan came enhanced by at least one genuine Japanese costume with dainty slippers. India wore authentic costumes lent by missionaries. Egypt pantomimed a colorful market scene. Ireland sang and read laughter-invoking witticism from an Irish newspaper. Hawaii, decked out in grass skirts sent home by service boys, swung and swayed to a Hawaiian saxophone number.

Just before dinner, Mrs. Simmons gave a resume of her trip to Jackson's Mill, West Virginia, last October to the National Home Demonstration Council meeting.

After dinner Mrs. R. E. Mehl showed kodakrome pictures of her trip to Western Europe, where last fall she attended the international meeting of the Associated Country Women of the World, at Amsterdam, Holland.

Mrs. Mehl's pictures were unusually well edited and organized. They began at Kinsley, Kan., where she left by plane, changed to a larger one in Dodge City, flew to New York, boarded the good ship Queen Mary for the voyage, the tour of France, England, Holland and Belgium, then home to Manhattan and Kinsley.

Her slide pictures clicked thru the automatic projector with professional precision and she was on her toes in explaining them. Both Mrs. Mehl's pictures and discourse were clear, concise and colorful. She seemed to get down to earth, this no doubt because she

found lodging in homes of foreign rural women and found out how they lived. Any county wishing a top-notch program will not err in featuring Mrs. Mehl. Incidentally, Mrs. Mehl paid all her expenses to Europe.

Also, ably explained by Mrs. John Stephans was the County Tuberculosis Association's project. Clark county is to have the mobile X-ray unit of the Division of Tuberculosis. Women were urged to have their families co-operate by having each member X-rayed. To be X-rayed, one merely passes fully clothed before the machine, then later will be notified regarding the outcome. There is no fee for this service. Under the sparkling feminine mistle of ceremonies, Virginia Stewart, the home demonstration agent, the entire day was a good one.

Advanced Designs

(Continued from Page 18)

as expected, turns out butter ready for spreading at any time—no more butter hard as a rock.

The self-lifting iron permits sit-down ironing. It has a single leg for stability and a large sole-plate. The latest feature on this iron is a fabric dial marked for nylon and a rayon signal which points to green when the iron is safe to iron rayons and nylon. It points to red when the iron is too hot for synthetic fabrics.

There are warning clocks and automatic clocks which accompany stove. The former ring a bell to warn the cook that the cooking job is finished. The latter turns off the heat automatically. Just set this clock and the food cooks while you are away.

In deciding just what type of electric equipment you wish, study the models in the stores, talk with the neighbors and discuss types with the home demonstration agent. The things you learn will help you in selecting the pieces that fit your needs.

For That New Look

667 SIZES 12-20

4667 SIZES 34-50

9014 SIZES 12-20

723

667—Princess blouse with fishtail peplum has embroidery around neckline in single and outline stitch. Transfer included. Sizes 12 to 20.

4667—The house dress is designed to flatter with slim, princess lines. Panels end in utility pockets. Sizes 34 to 50. Size 36 requires 4 1/2 yards of 35-inch material.

9014—Here is bright, young fashion in 2 colors. It has band sleeves, huge pockets and deep skirt pleat. Sizes 12 to 20. Size 16 requires 2 7/8 yards of

39-inch material and 1/2 yard of coordinating material.

723—You'll be proud of this peacock design embroidered on the bedspread. It gives a luxurious effect in simple stitchery. Transfer of one motif, 15 by 20 inches, four motifs 2 3/4 by 3 1/2 inches.

Twenty-five cents for dress patterns and cents for the needlework patterns. See money and order to the Fashion Editor, Kansas Farmer, Topeka.

Relieve Your Cough, Mix This Recipe, at Home

Saving. No Cooking. So Easy.

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

Make a syrup by stirring 2 cups of granulated sugar and one cup of water a few moments, until dissolved. No cooking needed—no trouble at all. (Or you can use corn syrup or liquid honey, instead of sugar.) Then put 2½ ounces of Pinex (obtained from any druggist) in a pint bottle, fill up with your syrup. This makes a pint of medicine that will please you by quick action. It never spoils, lasts a long time, and tastes fine—children love it. This simple mixture takes right hold of a cough. For real results, you've never seen anything better. It loosens the phlegm, soothes the irritated membranes, quickly relieves soreness and difficult breathing. Pinex is a special compound of proven ingredients, in concentrated form, well-known for its quick action in coughs and bronchial attacks. Money refunded if it doesn't please you in every way.

Here's an Idea

When ironing, begin with fabrics that require low temperatures, the rayons and other synthetic materials. Then progress to those that require high temperature, such as cotton and linen. Place the dampened clothes into the basket accordingly, the cottons and linens on the bottom and the rayons on top. All this, because an iron heats more rapidly than it cools. Some rayons can take more heat than others.

In buying oranges, weigh them in your hand. If they seem heavy you may assume they have plenty of juice. Avoid those that are spongy or puffy.

The vacuum cleaner and broom are among the best moth chasers. Moths like to hide around the edges of rugs and under slip covers and under seldom-moved furniture. Contrary to popular opinion, cedar chests do not repel moths. The tightness of the chest is its only merit. To kill the moths spray a 3 per cent solution of magnesium silico-fluoride on woolens. For closet walls, floor edges and baseboards use a 5 per cent solution of DDT in oil.

NEW SHOE GROOMING AID FOR MEN AND WOMEN

Makes Shoe Shining Quicker, Easier!

PROFESSIONAL MODEL \$4.75

SHOE HOLDER—ONLY Postpaid

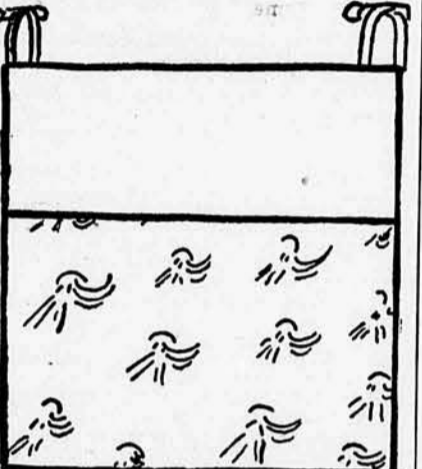
Men and women like this handy new Shu-Shiner because it makes possible a slicker, easier, better shine at home or office. Mounted on a flexible holder firmly grips any shoe from 3 to 13, holds it in a safe and steady for polishing. Only holder made that can be tilted to tilt side of shoe for easy cleaning. Comes complete with two lasts—removable men's size fits over women's and children's last. Easily removed from wall bracket to put away. All check or M.O. today! No C.O.D.'s.

Order by mail—Money-back guarantee

HANDY GADGETS
Dept. 55, Box 1355 • South Bend, Indiana



For the Sick-a-Bed



For the sick child or adult make a bedside bag. Strong wrapping paper is the best material. Turn in a deep hem at either end of a strip of paper to form a roomy pocket. Stitch across the hems, fold as in the illustration. At either side, sew cloth strips so the bag may be pinned to the side of the mattress with safety pins.

For little folks, place inside any little novelty pictures to color, a small picture book, crayons, chewing gum or fruit. For adults, cleansing tissue, stamped post cards, fruit or whatever suits the patient's tastes. In most instances the bag with cleansing tissue will be the most acceptable and the most practical. Burn the bag after it has been used. For an invalid whose ailment is not contagious a bag of cloth may be made as elaborate as one cares to make it.

EARLIEST TOMATO GROWN
... My Own Introduction

"FIELD'S RED BIRD"
Ripe in only 63 days from seed. Bright red, smooth, velvet, delicious. See FREE OFFER at left. All my seeds tested and really grow. You'll money's worth or your money back. Write me.

ERRY FIELD SEED CO., 1721 Elm St., Shanhodosh, Iowa

HOSIERY BARGAINS!

ANKLETS—9 pairs for \$1.
25c value. For infants, girls or ladies. Cuff tops. Assorted colors.

LADIES' HOSE—3 pairs for \$1.
49c value. Choice of semi-sheer rayon or full seam service weight cotton. Popular shades.

MEN'S COTTON SOX—7 pairs for \$1.
25c value. Medium weight, long style or short-elastic top. Assorted colors.

MEN'S DRESS SOX—5 pairs for \$1.
35c value. Fine rayon, long style or short-elastic top. Assorted colors.

LADIES' RAYON PANTIES—2 pairs for \$1.
All elastic waist. 69c value.

MONEY BACK IF NOT SATISFIED.
Hosiery are slight imperfects. Please state sizes wanted. We pay Parcel Post on all orders of \$2.00 or more. Add 10c postage on orders under \$2.00. No C.O.D.

SOUTHERN SALES CORPORATION
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Older folks say it's common sense . . .

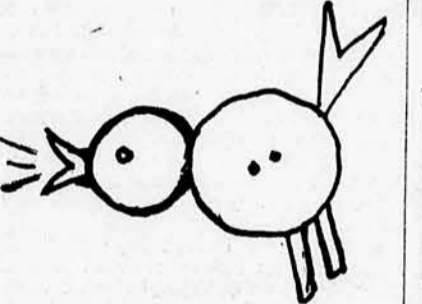
ALL-VEGETABLE LAXATIVE

In NR (Nature's Remedy) Tablets, there are no chemicals, no minerals, no phenol derivatives. NR Tablets are different—act different. Purely vegetable—a combination of 10 vegetable ingredients formulated over 50 years ago. Uncoated or candy coated, their action is dependable, thorough, yet gentle, as millions of NR's have proved. Get a 25¢ box. Use as directed.

Nature's Remedy
NR TO-NIGHT TOMORROW ALRIGHT

QUICK RELIEF FOR ACID INDIGESTION

The Button Bird



For the togs left over from last spring, what could be better than button birds to give them a lift. They are so easy to make that one will be tempted to make several.

For a coat, dress or suit lapel, a belt, on the collar points or on the purse, you will like them. To make one, choose 2 sizes of buttons. For the body of the bird, choose the larger button; for the head, the smaller of the two. Sew them in place as you see them in relation to each other in the sketch. From bits of felt scraps, using a small pair of scissors, cut the tail, bill and feet. Just a few tiny concealed stitches will hold the felt pieces in place.

Mark a ring in ink for the bird's eye around the button eye nearest the bill. Three short stitches of embroidery floss make the bird notes coming from the throat. If the garment is dark, make your bird of dark buttons but in a decided color contrast.—By W. W. C.

Perfect Baking Results...every time

Yes—KANSAS STAR "Better by Far" FLOUR is a flour you can depend on for the same fine baking results every time you use it—on everything you bake! Crusty-topped loaves of soft, even-textured bread . . . tender, delicious rolls . . . pastry so delicate and flaky it melts in your mouth . . . that's the kind of marvelous baking you turn out with KANSAS STAR "Better by Far" FLOUR. Make sure your baking always tastes better—always use KANSAS STAR "Better by Far" FLOUR.

USE KANSAS STAR "Better by Far" FLOUR

MARY LEARNS A SHOPPING TRICK

SO MUCH RED STAR DRY YEAST! GOING TO BAKE FOR AN ARMY?

IT'S MY MONTH'S SUPPLY.

WON'T IT LOSE ITS FRESHNESS?

NOT RED STAR... IT KEEPS FOR MONTHS... RIGHT ON THE PANTRY SHELF.

CHERRY WINKS

2 pkgs. Red Star Dry Yeast	1 teaspoon salt
½ cup warm water (100°-110° F.)	3¼ cups sifted flour
1 cup milk	1 egg
½ cup sugar	½ cup shortening
½ cup chopped candied cherries	

Add 2 pkgs. Red Star Dry Yeast to warm water. Let stand. Scald milk. Add sugar and salt. Cool to lukewarm. Stir yeast solution. Add to milk mixture. Add half the flour. Stir in beaten egg and melted and cooled shortening. Add remainder of flour, melted and let rise until light, about 20 minutes. Stir down. Add cherries. (Mixture can be handled with spoon.) Cover muffin pans. (Fill about ¾ full.) Let rise until light, about 25 minutes. Bake at 375° F. for 20 minutes. Drizzle while warm with thin powdered sugar frosting. Makes 1½ dozen.

Red Star QUICK RISING Dry Yeast

QUICKER · EASIER FOR EATING · FOR BAKING Always Fresh!

RED STAR DRY YEAST

ENJOY ELECTRICITY NOW

JACOBS

New 1948 Models.
110 VOLT
32 VOLT

WIND
ELECTRIC
PLANTS

300-400
Kw. Hr. per Mo.
**UNIFORM
VOLTAGE**

Abundant
Electricity
for ALL
110 Volt
AC-DC
Motors and
Appliances



Operates on
Regular Wiring
For Highline
Service.

"Wired But Waiting" For Service?

You can electrify economically NOW with the dependable 110 Volt Jacobs-Wind Electric Plant! And remember this wiring for highline service is identical to the wiring for a 110 Volt Jacobs. If and when you do get highline service, you will use the same wiring and the same AC-DC motors and appliances!

Uninterrupted, RESERVE POWER

If you want uninterrupted, reserve power at uniform voltage and at lowest cost, you want a dependable JACOBS. For more than fifteen years, Jacobs 110 Volt Plants have been supplying power for as little as 2 cents per kilowatt hour, including operation, maintenance and battery replacement. AC-DC motors and appliances operate on the uniform voltage of the completely automatic Jacobs.

Get ALL the Facts on
New 1948 Models
*See your JACOBS
Dealer or Write Direct.

5 YEAR
UNCONDITIONAL
GUARANTEE
AGAINST GENERATOR
BURN OUT

JACOBS

WIND ELECTRIC COMPANY, INC.
MINNEAPOLIS 1, MINNESOTA

WHY More Gear Speeds ARE NECESSARY



With more gear speeds you can run your tractor at the right speed for every job. You save engine wear—save labor—save money!

To get more gear speeds, install a Sherman Step-Up Transmission on your Ford tractor. Get ready for spring work. See your Ford tractor dealer... install now!

ONE OUT OF EVERY FIVE FORD TRACTORS
IS NOW EQUIPPED WITH A
SHERMAN STEP-UP TRANSMISSION!

SHERMAN PRODUCTS, INC.
ROYAL OAK, MICHIGAN

PAYS FOR ITSELF
IN ONE
SEASON

Made by the makers
of the FARM-CRAFTER

SHERMAN STEP-UP TRANSMISSION

Coming Events

January 19—Harper county 4-H Club members completing 1947 projects and leaders, guests of Anthony Chamber of Commerce, achievement banquet.

January 19-20—Farm, Home and Industrial Conference, Coffeyville.

January 20—Cowley county dairy producers and processors meeting, Strothers Field, Winfield, 7:30 p. m.

January 21—Harper county dairy breeder's dinner conference, Anthony.

January 22—Bourbon county 4-H Club leaders conference, Fort Scott, led by Roger Regnier, assistant state 4-H Club leader, Farm Bureau office, 1 p. m.

January 22—Ellsworth county improvement day (dedicated to soil conservation).

January 23—Clay county livestock and crops school, Clay Center, 1:30 p. m.

January 23—Bourbon county crops and soils meeting, Farm Bureau office, Fort Scott, 10 a. m.

January 28—Cherokee county poultry conference, Columbus.

January 29—District lamb and wool school, Hutchinson.

January 29—Harper County Bankers' Association soil conservation award banquet, Anthony.

January 30—District conference, Pratt, for 4-H Club leaders.

January 30—Cowley county beef and crop school, Winfield.

February 3-7—Agricultural Week, Kansas State College, Manhattan.

February 8-11—Kansas Farmers Union 4th annual officers training school, Lindsborg.

February 9-10—Farm, Home and Industrial Conference, Hutchinson.

February 11-12—Farm, Home and Industrial Conference, Colby.

February 12—All-day poultry-agricultural engineering meeting conducted by M. A. Seaton and Harold Stover, of K. S. C., at Fort Scott.

February 12-13—Farm, Home and Industrial Conference, Beloit.

February 17—Clay county winter poultry school, Farm Bureau hall, Clay Center, 2 p. m.

February 18—Johnson county 4-H leaders training school.

February 20—First annual meeting of Ark Valley Breeders' Association (artificial insemination association), Home National Bank Bldg., Winfield.

February 24-25—District home improvement school, Farm Bureau Hall, Fort Scott.

February 27—Ellsworth county livestock day, Ellsworth.

February 27—Clay county winter dairy meeting, Farm Bureau hall, Clay Center, 2 p. m.

March 4—Johnson county, discussion meeting on international relations. C. R. Jaccard, Kansas State College, leader.

March 4—Swine school, Farm Bureau hall, Clay Center, 2 p. m.

March 6—Electr city and the poultry farm, Ellsworth.

March 6—Clay county 4-H Club day, Clay Center, high school auditorium.

March 8—Agronomy meeting, Clay Center, evening meeting.

March 8-11—National convention of Farmers Union, Denver.

March 12-13—District home improvement school, Ellsworth.

March 16—Johnson county vegetable meeting. W. G. Amstein, Kansas State College, leader.

March 17—Johnson county rural engineering and conservation meeting. Ferguson and Harper, Kansas State College, leaders.

March 27—Bourbon county 4-H Clubs to be represented at sub-district 4-H Day, Yates Center.

March 31—Johnson county farm management meeting with Griffith and Myers, Kansas State College, leaders.

April 1—Johnson county terracing demonstration.

April 1—Farm equipment meeting, conducted by Walter Selby, Fort Scott.

April 8—M. A. Seaton will make a series of poultry flock visits in Bourbon county on poultry management.

April 9—Outlook meeting, Clay Center, Farm Bureau hall.

April 12—Meeting on use of farm equipment in maintaining soil conservation, Fort Scott.

April 13—Quality egg program, Clay Center, Farm Bureau hall.

April 14—Johnson county complete farm planning meeting, Olathe.

April 26—Johnson county vegetable school with W. G. Amstein, Kansas State College, leader.

April 29—4-H livestock judging school, Clay Center.

May 4—4-H tractor maintenance school, Clay Center.

May 5—Johnson county discussion meeting on public policy. C. R. Jaccard, K. S. C., leader.

May 10—Crops tour covering Bourbon county conducted by E. A. Cleavinger.

May 21—Ellsworth county crops and soils tour.

May 23—4-H Sunday.

May 26—Johnson county crops and conservation meeting. John Ferguson, R. C. Lind and L. E. Willoughby, K. S. C., leaders.

June 7—Johnson county dairy tour.

June 17—Johnson county wheat field day. Paul Uhlman farm, President Milton Eisenhower, K. S. C., speaker.

July 8—Johnson county disease control meeting. C. L. King, K. S. C., leader.

August 11—Johnson county terracing demonstration.

August 12—Bourbon county beef tour, conducted by Lot Taylor.

September 1-4—Johnson county fair.

September 19—Johnson county terracing demonstration.

September 30—Johnson county grain crop disease control. C. L. King, K. S. C., leader.

Kansas Jerseys Hit High Marks

KANSAS Jersey breeders and their herds are always making top production news. What is going on among these breeders is reported by the American Jersey Cattle Club, Columbus, O.

Observer's Ozma of Oz 1253783, a registered Jersey cow owned by A. Lewis Oswald, Hutchinson, has been awarded a Ton of Gold Certificate for having produced 2,070 pounds of butterfat over a period of 4 years. During this time her production averaged more than 500 pounds of fat a year.

Four Reno county Jersey herds recently have been rated for type. The Ray E. Smith herd (10 animals classified) included 7 Very Good, 2 Good Plus and 1 Good for an average score of 85.50 per cent. The A. L. Miller herd (5 animals) were rated Good Plus for an average score of 82.50 per cent. The James Coleman herd (8 animals) included 2 Very Good, 3 Good Plus and 3 Good for an average score of 81.88 per cent. One registered cow owned by Edgar F. McRill, and 2 registered Jerseys owned by F. W. Hoeme, were classified. Mr. McRill's cow was classified

Very Good with a rating of 87.50. The 2 animals classified for Mr. Hoeme included 1 Very Good and 1 Good Plus for an average of 85 per cent.

Riley and Cowley each had 2 herds classified. In Riley county the Lester Frey herd (14 animals) included 4 Very Good, 6 Good Plus and 4 Good for an average of 82.50 per cent. The Kansas State College herd (15 animals) included 1 Very Good, 10 Good Plus, 1 Good and 3 Fair for an average score of 80.50 per cent. Over in Cowley county the Harold Hood herd (8 animals) included 2 Very Good, 4 Good Plus, 1 Good and 1 Fair for an average of 81.88 per cent. The herd of John Weir, Jr., (4 animals) included all Very Good for an average score of 87.50.

Other herds classified, and the results, are as follows: C. R. Beer & Sons, Pawnee county, (17 animals) 5 Very Good, 11 Good Plus and 1 Fair for an average of 83.38; Harry Randolph, Kingman county, (5 animals) all Very Good for a score of 87.50; J. Lawrence Byler, Sumner county, (10 animals) 5 Very Good and 5 Good Plus for a score of 85; W. C. Isern and A. C. Knop, Barton county, (8 animals) 4 Very Good, 2 Good Plus and 2 Good for a score of 83.75; L. H. Reece, Neosho county, (9 animals) 2 Very Good, 4 Good Plus, 2 Good and 1 Fair for a score of 81.39.

A. C. Knop, of Barton county, has received national recognition from The American Jersey Cattle Club in the form of a Silver Medal Award on his registered Jersey herd bull, Dreaming Moor Sweet Aim 422886. Three daughters of this bull, under official production test, completed lactation records of 550, 547 and 523 pounds butterfat. This bull also has been classified as Very Good.

Good Poultry House

A blueprint of a straw-loft poultry house is available to Kansas Farmer readers, which provides for a poultry house 20 by 70 feet, with suggested design, features and equipment. Arrangements have been made with Extension Division, Kansas State College, to fill all orders for blueprint as long as the supply lasts. Please address Farm Service Editor, Kansas Farmer, Topeka. It is free.



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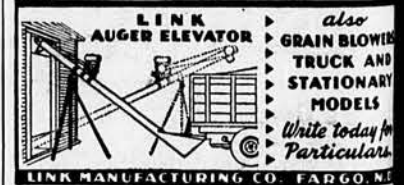
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Kidneys may need help the same as bowels. Ask your druggist for Doan's Pills, a stimulant diuretic, used successfully by millions for over years. Doan's give happy relief and will help the miles of kidney tubes flush out poisonous waste from your blood. Get Doan's Pills.

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GOOD OAT NEWS!

Specialize and are headquarters for best, latest, and best possible seed oats. Varieties all elicited well in 1947 in spite of very poor oat year. Many amazing and unbelievable yields—65, 75, 80, 90, 95, 100, 110, and up to 120 bu. per acre.

Varieties for 1948 include New Canadian, Canada's latest and best, took over champion at Chicago Grain Show, 1946; Cole—New Iowa Extra Heavy; Mindo—New Minnesota outstander; and Clinton—2 good ones.

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Looking ahead now can mean a fat pocket or checking account next fall. M. Irvine, Dysart, Iowa, bought 40 bu. of Seeded 20 acres. Got 2,040 bu., or 51 bu. per acre. His Boone went 35.

DeNeul, Cedar Falls, Iowa, put in 26 ac. got 95 bu. per acre, received \$3,592.00 for crop.

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From a Marketing Viewpoint

By C. P. Wilson, Livestock; Paul L. Kelley, Poultry, Eggs and Dairy.

I have 26 hogs now averaging about 80 pounds each. When do you think the spring hog top will be reached, and about what price do you think it will be?—C. F. N.

Hog prices are expected to reach their seasonal peak sometime in early March. The spring pig crop moved to market early so the number of hogs remaining on farms for the late winter season is relatively small. The fall pig crop of 1947 is reported to be somewhat larger than that of 1946, but it is still a relatively small crop. This means small market supplies of hogs from late January until April, with the lightest supply expected during early March. Demand conditions remain exceptionally strong, so it seems that as supplies decrease the hog market will move upward. Prices are expected to establish a new record high somewhat above \$31 at that time.

What will be the 1948 outlook for meat animals?—F. P. J.

Market supplies of meat animals will be smaller during 1948 than during 1947. Present indications are that the reduction in total meat supplies will be less than 10 per cent—probably about 6 or 7 per cent. From a seasonal standpoint, meat supplies will be shortest during the summer and early fall. Beef supplies will be relatively large during the early part of 1948 as short-fed cattle move to market, and again during the late fall months as grass cattle come to market. Well-finished, grain-fed cattle will not be abundant during 1948 but the supply, such as it is, will likely be available in greatest quantity during the spring months. Pork will be fairly abundant during January, again in May and June, and again during late November and December. Lamb will be in short supply thruout the year, with the largest seasonal supply during the September to November period.

From the supply standpoint, there is little to indicate lower livestock prices during 1948. Rate of marketing livestock is not expected to be sufficiently

large at any time in 1948 to cause more than normal seasonal adjustments in prices. The all-important factor in the livestock-price situation for 1948 is demand. Demand for meat has never been so high. If demand should weaken appreciably, livestock values could drop.

Factors known at the present time would indicate that demand will continue strong into the second quarter of 1948. If demand continues strong into the last half of the year, the supply situation would indicate higher livestock prices. If demand does not continue strong, the price situation is not so favorable.

What do you think the prospect for dairy product prices will be in the next few weeks?—R. M.

Dairy markets have been characterized by increases in retail fluid-milk prices and slight downward adjustment in butter prices during the past week. Butter prices, which have been advancing since the middle of November, have declined more than 3 cents at some markets. The recent increases in retail milk prices are said to be necessary as the result of increases in prices of milk to producers. As the season progresses, milk production will increase and some pressure on manufacturing milk supplies will be reduced. At present the cheese market is steady to firm with supplies about balancing demand.

It is doubtful whether butter prices will decline to too great an extent at this time. However, seasonal influences will begin to play a part in bringing about downward adjustment in prices as we approach the spring milk-production season. Creamery butter production is running about 20 per cent below a year ago and about 25 per cent less than the immediate previous 5-year average for this time of year.

On December 1, 1947, there were 46 million pounds of butter in storage which was slightly larger than the stocks of a year earlier, but still about one half as large as the 1942-46 December 1 average. Cream stocks are less than one half as large as they were a year ago.

Nitrogen Helps Redtop



This photo shows what 200 pounds of 32 per cent ammonium nitrate an acre did for redtop on the Forrest Miksch farm, Labette county. The sample on the left, which received no treatment, produced 3,281 pounds of forage an acre. The application of nitrogen, as illustrated with the sample on the right, produced 7,500 pounds of forage an acre.

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Unsolved Dairy Problems

(Continued from Page 6)

to release), design and size of teat cups, length, diameter and position of milk tubes, and weight of the claw.

Along with the studies just mentioned, the department is making thorough time-in-motion studies on the entire process of milking.

When all of these experiments are completed and the data analyzed the information can be applied to your herd. With this information you should be able to handle your herd in a manner to get maximum milking efficiency from the cows and your equipment. Time-in-motion studies are being made under every variety of labor conditions on the farm and for all sizes of herds. When completed you can use the information to best organize your labor efforts whether you do all your work or hire extra men. The answers also will apply to your herd whether you milk 8 cows or 60.

Tap Water Is O. K.

Experiments on stimulation for milk let-down already have resulted in some interesting observations, Professor Beck reports. For instance, it has been a common recommendation that warm water be used for washing the udders before milking. Professor Beck reports that results obtained at the college indicate that temperature of the water is not important. "Tap water is just as effective as warm water in stimulating milk let-down," he states, "and is much easier to prepare."

He also reports that a cow whose udder is massaged 10 seconds and milked 5 minutes later has about the same milk-flow curve as a cow whose udder is massaged 60 seconds and milked immediately.

This finding, while not yet conclusive, indicates that a dairyman can vary the stimulation process to suit his milking schedule.

Why one cow will milk out in 3 minutes and another takes 6 minutes is being studied. Professor Atkeson has a hunch the "let-down" ability of the cow may be an inherited trait. If this proves out after continued study, it will be another factor to be considered by dairymen in their choice and breeding of cow families.

That's as far as we can go on the "fast milking" experiments, so let's look at some of the other research programs.

A survey of more than 1,000 Kansas farms already has been completed in an effort to determine methods used by farmers in producing milk and cream for market. Professor W. H. Martin, in charge of this survey, states that when these facts have been analyzed, the information will be used to direct attention to the more important factors in feeding, management and sanitation.

Hunt Cause of Edema

Dr. F. C. Fountaine has some interesting feeding experiments under his direction. One of them is on control of udder edema (caked udder) in cows and heifers. He states that edema is one of the most important unsolved dairy problems today. Work being done under Doctor Fountaine is in regard to conditions of cows during the previous lactation, and during the dry period to determine the effect of various feeding practices. Farmers certainly would like to know what feeding practices they could use to prevent or reduce the incidence of edema. Doctor Fountaine hopes to find the answers.

Also in progress under Doctor Fountaine is a study on the effect of supplementary vitamin E on the yield and composition of milk and butterfat, and upon the health of dairy cows and their offspring. Additional work is being done on the special nutritional needs of dairy calves during the first 8 weeks following their birth.

Tests have been completed on the effect of the dry-period diet of cows on the vitamin A reserves of their newborn calves. Previous investigation had shown that a calf is born with low vitamin A reserves in the liver.

In the recently completed tests at Manhattan, Dr. G. H. Wise found that calves born from mothers fed vitamin A supplements (1 million units a day) had significantly higher vitamin A content in blood and livers. These tests showed that even when cows are on good winter pasture they do not supply their calves with a sufficient reserve of vitamin A.

Doctor Fountaine also is conducting

some interesting experiments on physical and chemical composition of calf meals, on palatability of feeds and growth response of calves, and use of condensed-milk products as substitute for whole milk in calf feeding.

Handling of milk after milking is getting its share of research attention at the college. One of these projects, under the leadership of Dr. T. Claydon, now is complete. It is a study of the efficiency of farm-size mechanical separators in withholding fat matter from cream. Doctor Claydon is preparing a special story on this experiment for later publication in Kansas Farmer.

At present there is no short, simple test for cream quality other than taste and smell. This method of buying cream on basis of an individual's judgment always has been a sore point with farmers. Doctor Claydon has been busy trying to develop a color test that will eliminate this unsatisfactory method. The color method for testing cream is based on differences in color intensities of cream samples when in contact with certain reagents. Some improvements remain to be made in this process, but already it agrees with expert cream testers in 90 per cent of the tests compared. Perfection of the color test should go a long way toward establishing a better relationship between farmers and buyers.

May Eliminate Trouble

Another study being directed by Doctor Claydon is to determine the main source of cream deterioration from farm to creamery. When the source is definitely determined, more effort can be made to overcome or eliminate it.

Doctor Claydon also is experimenting on the effects on cream quality of indiscriminate mixing of cream in the buying stations. Indications to date are that, from a practical standpoint, mixing does not affect quality as greatly as is generally believed. Also coming in for attention are dirt and other foreign matter found in empty cream cans.

One of the major investigations along milk-handling lines is a study of air-borne materials found around dairy plants. This is being done by taking samples of air in the plants and analyzing foreign matter found. These samples then are compared with foreign materials found in cream in the plants. After determining how much contamination of cream may occur from the air in milk plants, work will be done on eliminating the cause of contamination.

Visits by research men to cream buying stations disclosed that cream cans in these stations often stand open for fairly long periods while being filled with cream purchased from customers.

Use a Special Lid

This observation led to the design of a temporary cream can lid. This lid is easy to insert in the can neck and has a hinged flap for opening while cream is being poured. The hinged flap remains shut at all other times to protect the cream during intervals between pourings. A small opening in the lid may be provided to allow stirring of the cream with a stirring rod without having to open the lid.

If such temporary-type lids can be perfected and installed in buying stations, much contamination of cream might be prevented.

Still other experiments at the college are concerned with problems in the manufacture of milk products. We will not take time to explain these. We think, however, that you are interested in knowing that the college is doing everything possible to expand the use of milk and milk products through research.

Altho, as we said early in this article, we cannot cover all dairy-research work being done at the college, the experiments mentioned here should give you a good idea of the wide scope of the work.

From our observations we are convinced that you are going to get the answers to a lot of your dairy problems as a result of research work now in progress. When you get these answers, dairying is going to be an easier and more profitable project on your farm. Of course, Kansas Farmer will give you this research information as soon as it becomes available.

Farm Price Support Opposition

(Continued from Page 7)

hand, food prices are so high consumers are excited and rather rampant.

the matter of the new long-range program, including revision of parity formula, Senator Capper, chairman of the Senate Committee on Agriculture, and Congressman Hope, chairman of the House Committee, are doubtful if Congress will be in a frame of mind this session to act on Senator George Aiken of Vermont, chairman of the Senate subcommittee on the long-range program, however, is insisting that something be done in the present session.

common remark in the halls and corridors of the Capitol these days runs something like this: "After all, the Marshall Plan is about the best kind of farm price support legislation there is."

red Bailey, executive director of National Agricultural Research, Inc., has close connections with the National Grange and also with the Council of Farmer Co-operatives, rather than from this conclusion that adoption of the Marshall Plan (otherwise European Recovery Program, or ERP) guarantees farm prices.

The Marshall Plan is not to be the price bonanza that some had expected," says Bailey. "It could be a merang."

A breakdown study of President Truman's proposal (as sent to Congress the last day of the extra session December) discloses that Canadian Latin American farmers will get 10 per cent of the Marshall Plan dollars.

The President asked for \$6,500,000, to finance aid from April 1, 1948, to June 30, 1949 . . . about two thirds of which would be for food. The 15-months food budget is for \$3,000,000. Of that amount, \$2,758,000 would be spent outside the United States, but only \$1,378,000,000 domestic purchases."

ere is a breakdown of food expenditures, providing the President's recommendations are taken by Congress, and carried into effect by who administers to ERP:

grain—\$840,000,000 to be purchased in the United States; \$1,300,000,000 where, principally in Latin America and perhaps Canada.

sugar—\$28,000,000 in the United States; \$268,000,000 outside the United States.

oils and fats—\$122,000,000 in the United States; \$450,000,000 purchased outside the United States.

meats—\$7,000,000 in the United States; \$385,000,000 from outside the United States.

air and poultry products—\$271,000,000 in the United States; very little from outside the United States.

the \$328,000,000 for coffee and a few other items not produced in the United States will naturally be expended outside the United States. Some \$110,000,000 is planned to be expended in the United States for fruits, vegetables and some other rather minor items.

Allocation of \$136,000,000 for farm machinery to be shipped to Western Europe would amount to a sharp increase in exports. The schedule calls for expenditure of some \$22,000,000

from the U. S. Treasury for farm machinery made in Canada and Latin America to be sent to Europe.

Also, the President's Marshall Plan proposal calls for \$20,000,000 worth of fertilizer purchased in the United States for export to Western Europe; about \$22,000,000 to be spent elsewhere to supply the needs of the 16 nations of Western Europe included in the present ERP program.

On the other hand, refusal of Congress to adopt the Marshall Plan, with its 1 1/2 billion dollars for food purchases in the United States for export, might precipitate a sharp break in farm prices that could start the deflation, which Washington is particularly eager to postpone until after November of 1948.

Some idea of what the effect of exports on farm prices is may be gathered from this comparison. In the 5-year period, 1935-39, food exports from the United States ran around \$275,000,000 annually. In 1946 food exports were valued at \$2,500,000,000. While the volume of exports increased only 4 times, the dollar value went up 7 times. But allowance there should be made for the fact that the 1946 dollar was only a 70-cent dollar, compared to 1935-39 dollars.

According to Wayne Darrow in his current Washington Farm Letter, where one family in six prewar had an annual income as high as \$2,000, now two families in every five have annual incomes as large as \$2,000 amounted to in the prewar years. And retail food expenditures in that 5-year period totaled just a little more than \$15,000,000 annually; now, 3 times that amount.

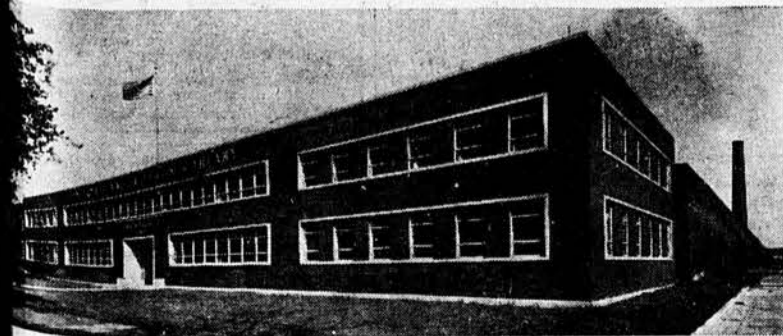
Also, since 1939 the population of the United States has increased by 10 million, meaning that many more persons to be fed. Back in 1929, when the total population was 123 million (now 144 million) wage and salary workers outside agriculture numbered 30 million; this year, nearly 41 million.

The Republican Congress is determined to reduce Federal income taxes this session, on a sliding scale that will effect reductions ranging from 10 per cent in the upper brackets to 30 per cent in the lower brackets. And also, by increasing exemptions from \$500 to \$600 per capita, to take a few more than 6 million persons off the tax rolls. What that increase of exemptions by only \$100 means may be judged by the fact that if the bill becomes law, 72,600 persons (out of 639,539) who paid federal income taxes last year will go off the rolls this year. And in Ohio 370,800 would cease paying Federal income taxes; in Missouri, 153,600.

Congress may not be able to agree finally on the terms of the Marshall Plan until April or May. Republican strategy probably will be to pass a tax reduction bill early in the session, then whittle down appropriations for nearly all purposes except national security, and also hold down ERP to between 4 and 5 billion dollars.

Don't be surprised if there is more or less politics played during this session of Congress. Perhaps that is regrettable—but it might be even more regrettable to live under a system like Soviet Russia's, where no politics is allowed.

Open Larger Research Department



This building houses the up-to-the-minute manufacturing research department of the International Harvester Company. Located in Chicago, the building contains 230,000 square feet of floor space, plenty of room for the 235 employees, most of whom are graduate scientists. There will be about 500 employees here when the department is in full operation. Investigation of manufacturing methods, development of manufacturing standards, and new developments will be studied here.



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To A. A. KLUGHART & MACHY, CO.,
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Catching Up With Newcastle

Streptomycin has been proved a valuable aid in the study and diagnosis of the threatening Newcastle disease of poultry, U. S. Department of Agriculture research workers report. This recently discovered antibiotic can be used to kill bacteria without affecting the virus that causes the Newcastle disease.

The test is made by injecting into the half-hatched embryo of an egg a small quantity of an extract from tissues of a fowl in which Newcastle disease is suspected. If the virus is present, it will kill the embryo in a way that the laboratory workers can identify. This kind of information is essential in efforts to control the spread of Newcastle disease.

Practically, the incubated egg test has not been satisfactory, because the extract to be tested often has been contaminated by bacteria. The bacteria also could kill the embryo and so hide the effects of the virus. This is where the antibiotic effect of streptomycin helps. Adding a weak solution of streptomycin to the extract disposes of the bacteria without injuring the virus.

Steady Increase

Since 1945, the number of Kansas counties making appropriations for home demonstration agents has jumped from 51 to 80. The increase has been steady. In 1946, there were 61 counties appropriating for this purpose, and in 1947 there were 72.

During 1947 leaders in 12 counties were trained to evaluate what they read. This training, done by a member of the staff of the Institute of Citizenship, Kansas State College, was a new experience for leaders as well as for most of the members of the units. This work stimulated interest in other phases of citizenship during 1948.

"The effectiveness of the field home economics program," comments L. C. Williams, dean and director of the Kansas State College extension service, "is difficult to measure. Probably one of the best ways to judge its effectiveness is by the continued demand for home demonstration agents."

Not Yet Perfect

Scientists may never find a perfect insecticide but that is their goal. A perfect insecticide, they claim, would be one that would remain poisonous to insects as long as the crop is in the field and growing, and then would promptly decompose into harmless materials. It would kill all the harmful insects and not injure the helpers, and would leave no residue problem.

Some progress is being made, however. Particularly in research on the newer organic insecticides. Some of these are synthetics composed of hydrogen, oxygen, carbon and chlorine. They are derived from such common materials as coal, water and salt.

Clip the Cows

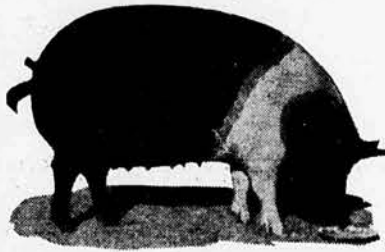


An experiment conducted by the Bureau of Dairy Industry found that fresh milk from dirty cows had an average bacterial count of 55,208 to the cubic centimeter, whereas fresh milk from clean cows with udders washed averaged only 4,947 per cubic centimeter. A cubic centimeter is about 16 drops. If you clip long hairs from udders, flanks and tails, dirt will not cling so easily, milk will be cleaner.

**Bergstens' Sell
HAMPSHIRE Bred Gilts**

At farm just south of

February 12—Randolph, Kan.—1 P.M.



**45 Bred Gilts
5 Fall Boars**

These gilts will meet with the approval of the critical breeder and practical pork producer. They are sired by **Progressor, Sufficiency, Our Model** and other prominent boars. They are bred to "The Showpiece" and "Star Design." We are especially proud of "Star Design" and rate him the best we have ever produced. We also produced his sire "All Star R.B." who is a full brother to **Proud Ruler**, the Illinois Champion that recently sold at auction for \$3,050. Star Design is a great show prospect and his breeding is the very best. "The Showpiece" is a great individual and sired by "Mischievous Maker" is tops in breeding.

5 Fall Boars (choice) also sell. We will also sell a few off marked bred gilts, also few fall gilts.

Note: We feel we have the best ever group of gilts, in the best condition and bred to the best service sires.

We Invite Everyone Interested in Good Livestock to Attend

Invite requests for catalogs, write to

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Auctioneer: Bert Powell, Topeka, Kan.

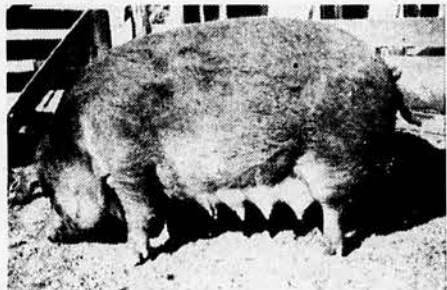
Mike Wilson with Kansas Farmer

40--Duroc Bred Gilts--40

It is easy to say "This is the best group of gilts we ever offered" but we are sure they are. They sell in the heated sales pavilion at the farm 11 miles south of ALMA, KANSAS, on gravel road. THE DATE IS

Wednesday, February 11—1 P.M.

The Sales Offering: These gilts are sired by **Super Sensation, Fancy Thickset and Knockout**. Mostly bred for March farrow. Most of the 40 Head Selling are bred to "Eureka" my new herd boar who is sired by the well-known Frank Alexander boar, Lo-Down Fancy. Others bred to **Blocky Demand, Super Sensation and Prince Bob**. This is a cholera immune, Bang's tested offering. **Several Top Fall Boars Will Be Offered.** For sale catalog write to



"This is the Miller Type"

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Mike Wilson with Kansas Farmer

Complete Dispersion of the Hart Farm Durocs

Wednesday, January 28 — 12:30 p. m.

Sale held under cover, lunch served at 11:30, on the farm 2 miles north and 3 east of Lee's Summit, Mo., on Colburn road (paved Jackson Co. 8 S.) or 5 miles east of the Unity Tower off of highway 50. Since we have sold the farm you will have this opportunity.

85 HEAD OF TOP REG. DUROCS 3 Herd Boars—
Nebraska Specialty by Spot Light Image, blood brother to Hyland Lucky
Supreme Tops by Supreme and out of a Tops dam.
Tops Orion by Tops All and a Thick Set dam.
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10 Bred Gilts sired by Nebraska Specialty, bred for February and March litters.
62 Quality Fall Boars and Gilts sired by Nebraska Specialty.
Hog Equipment—24 individual hog houses, 5 self feeders, 80 3x8 creep panels, breeding crate, 10 shipping crates; big feed cooker (gas, coal or wood), and miscellaneous hog equipment.
Hog equipment sells at 12:30 p. m. Plan to attend this dispersion. For catalog write
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(Fairgrounds)

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February 14**

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Will Be Our Next Issue**

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

Saturday, January 31

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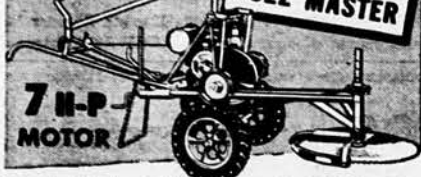
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Big Help to Grapes

By JAMES SENTER BRAZELTON

IN A SERIES of experiments, covering 4 years, on the control of black rot of grapes, Fermate has been found the most efficient of all fungicides even including the old standby Bordeaux mixture. Results of these experiments were made public by H. G. Swartwout, of the department of horticulture, Missouri College of Agriculture, in an address delivered at the recent annual meeting of the Kansas State Horticultural Society, at Manhattan.

According to this horticultural expert the experimental work consisted principally in an evaluation of some of the new organic fungicides, dormant sprays and a petroleum oil spreader in combination with Bordeaux mixture. The work was carried on in vineyards in which black rot had been serious and crop losses had been heavy. All experimental work was done on the Concord variety.

Six of the new organic fungicides—Fermate, Methasan, Puratized Agricultural Spray, Isothan Q15, Goodrite p.e.p.s. and Phygon—were tested for their effectiveness against black rot and for their phytotoxic (plant injury) effects, the speaker explained. Control of black rot by Methasan was comparable to that of Fermate but its use caused an appreciable amount of leaf injury.

Effective Against Black Rot

Puratized Agricultural Spray seemed to be quite effective against black rot in 1946, but when used in the wet season of 1947 control was somewhat less than with Fermate. Puratized is a mercurial compound, the speaker said, and for this reason the residue on the fruit might be considered a health hazard. Both years that Puratized was used there was a moderate amount of injury, which showed up in the form of dwarfing and curling or cupping of the leaves.

Isothan Q15 used with Orthex as a spreader and sticker was the least effective of all the materials used. Its control of black rot was inadequate and, like most of the other materials, it caused a moderate amount of foliage injury, Professor Swartwout stated.

Goodrite p.e.p.s., which appears to be a good sticker for other materials besides having some fungicidal qualities of its own, was used both alone and in combination with Fermate. When used alone it did not control black rot quite as well as the other organic fungicides, excepting Isothan Q15, but the p.e.p.s.-Fermate combination, each at half regular strength, was one of the most effective treatments.

Phygon used alone at the rate of 3/4 pound in 100 gallons of water in the prebloom sprays and in combination with 2 ounces of Grasselli spreader-sticker in the after-bloom spray, was somewhat less effective than Fermate used at 1 1/2 pounds to 100 gallons of water and not quite as effective as 5-5-100 Bordeaux in controlling black rot. Altho there was no observable leaf injury Phygon caused some russetting of the berries. By the time the berries were mature the injury was hardly noticeable. But it was the speaker's opinion it would be objectionable on light-colored fruit such as white or red varieties.

Progress Has Been Made

In comparing Bordeaux mixture to these new organic spray materials, the horticulturist pointed out that in each of the 4 years the experimental work was in progress it caused more injury than any of the other fungicides. Bordeaux injury was light in 1944 when the weather was relatively sunny and dry, but in 1945 and 1947, when the weather was prevailing cool and rainy during the spraying season, injury was severe. It is in cloudy wet seasons favorable to black rot infections, and when protection is most needed, that injury from Bordeaux is likely to be most severe, the professor explained.

Fermate, he contended, has caused no visible injury. Its only noticeable effect has been to produce slightly darker green leaves, and in some cases to cause a slight downward and inward rolling of the leaf margins. The effect has not been conspicuously serious. This past year (1947), when the crop in general was heavy and the summer

unusually hot and dry which reduced leaf efficiency, Fermate-sprayed vines matured their fruit better than Bordeaux-sprayed vines. With Bordeaux-damaged foliage the fruit ripened unevenly, maturity was delayed, and in some cases the fruit never reached acceptable table maturity.

Fermate has been applied in misty weather, in light rains, during hot, muggy spells and after protracted cloudy periods without any ill effects. Bordeaux applied under similar conditions has caused more or less injury. Also, contended the speaker, there has been no injury from hard driving sprays of Fermate or from 2 applications rather close together.

Professor Swartwout discussed briefly the question of spraying grapes when in full bloom. In seasons of rapid development, long blooming periods due to cold weather and forced delays in spraying, especially where there is considerable acreage to be covered, it often becomes necessary to spray while the plants are in bloom. This was the case in 1944.

As far as could be told by observation there was no difference in the fullness of the clusters or yield between vines sprayed in bloom and those sprayed before blooming began. Altho over a period of 4 years there has been no ill effects from spraying in bloom, the speaker advised that it be done only when circumstances made it necessary.

Based upon the results of his experimental work and his observations, the professor offered the following suggestions for spraying Concord grapes and other mildew-resistant varieties or where mildew is not a problem:

This 5-spray program is for vineyards where black rot has caused appreciable losses in recent years.

1. When the shoots are 1/2 to 1 1/2 inches long. It is important that the spray be applied at this stage of shoot development. Use Fermate 1 1/2 pounds to 100 gallons.

2. When the shoots are 12 to 14 inches long or 10 to 12 days before expected blooming. Use Fermate 1 1/2 pounds to 100 gallons with 3 pounds lead arsenate.

3. Just as blooming begins. Use Fermate 1 1/2 pounds to 100 gallons with 3 pounds lead arsenate.

4. As soon as blooming is over or in 10 to 14 days after No. 3 spray. Use Fermate 1 1/2 pounds to 100 gallons with 1 1/2 to 2 pounds of 50 per cent wettable DDT powder.

5. About 2 weeks after the No. 4 spray. Use Fermate 1 1/2 pounds to 100 gallons with 1 1/2 to 2 pounds of 50 per cent wettable DDT powder.

Swartwout advises continuing with the 5-spray program until very little black rot develops, perhaps 4 or 5 to half-dozen berries to the vine. Then omit the first spray in the 5-spray program and continue until only an occasional black rot berry can be found. After black rot has been practically eradicated from the vineyard it appears from present information that for awhile at least, only the last sprays of the 5-spray program will be needed to give good control of black rot, even in years favorable for its development. If black rot increases it is advisable to return to 4 or 5 sprays.

Keep Eye on Seed

It is estimated that all seed in annual commercial distribution is worth about 275 million dollars. At least half of this amount is shipped in interstate commerce and thus protected from false labeling or advertising under the Federal Seed Act.

During the fiscal year 1946-47 there were 835 complaints filed that seed was shipped in interstate commerce in violation of the law and 286 cases pending investigation from the year before.

Of the 1947 complaints investigated 32 per cent were for false germination labeling, 16 per cent were for noxious weed seeds, 14 per cent with respect to items of purity, 13 per cent as to false variety labeling, 6 per cent of failure to label, and 6 per cent for false advertising.

Immediately Ahead

(Continued from Page 11)

cent. From a seasonal standpoint, meat supplies will be shortest during the summer and early fall. Beef supplies will be relatively large during the early part of 1948 as short-fed cattle move to market, and again during the late fall as grass cattle come to market. Well-finished grain-fed cattle will not be abundant during 1948 but the supply, such as it is, will likely be available in greatest quantity during the spring. Pork will be fairly abundant during January, again in May and June, and again during late November and December. Lamb will be in short supply thruout the year, with the largest seasonal supply during September to November.

Liquidation in livestock numbers which started in 1942 for sheep, 1944 for hogs, and in 1945 for cattle will continue during the coming year. During the first few years of livestock liquidation, meat supplies usually are large because farmers are selling breeding stock in addition to current production. This is what was occurring from 1943 to 1947 and supplied the largest total quantity of meat the country ever produced. However, after liquidation reaches a certain point, the reduction in productive capacity begins to show up in market supplies. This is what will be occurring in 1948, and possibly will continue for a few more years.

Even after farmers begin to expand livestock production, market supplies remain low as farmers are then holding breeding stock on the farm rather than selling it as in a period of liquidation. This situation is still ahead and will occur before an expansion in meat supplies can take place. The timing of the ending of liquidation and the beginning of expansion of livestock numbers will depend on (1) the size of future feed crops, (2) the amount of grain exports, and (3) the over-all demand and price situation.

Meat Demand at New High

From the supply standpoint, there is little to indicate lower livestock prices during 1948. Barring an extreme drought or some other abnormal situation, the rate of marketing livestock is not ex-

pected to be sufficiently large at any time in 1948 to cause more than normal seasonal adjustments in prices. The all-important factor in the live stock price situation for 1948 is demand. Demand for meat has never been so high. If demand should weaken appreciably, livestock values could drop. The current level of demand cannot be expected to continue indefinitely. When it might turn downward cannot be predicted with accuracy. The fact that many forecasters are saying it will not turn down in 1948 should cause producers to be more cautious than ever because these turns often occur at unexpected times.

Factors known at present would indicate that demand will continue strong into the second quarter of 1948. If demand continues strong into the last half of the year, the supply situation would indicate higher livestock prices. If demand does not continue strong the price situation is not so favorable. The livestock producer in the safest situation is the one who is on a sound production program adapted to his individual farm, out of debt, and kept posted on the market situation.

POULTRY AND EGGS: Price outlook is not favorable for poultry raisers. Seasonal decreases in egg prices are in prospect for the spring period. Declines probably will bring egg prices to the support level, which probably will not be profitable to most producers under present feed conditions. Culling of flocks has eliminated poor layers, so total egg production has not declined as much as was anticipated. Some decline in total egg production compared to a year ago is in prospect. Decline in production in Kansas may be larger than for the United States. Substantial declines in number of chickens raised are in prospect if current levels of feed prices continue. Reduction in Kansas may be larger than in other areas.

Use Egg Beater

I have found that an old egg beater makes a fine paint-mixing tool, doing a faster and more thorough job.—Mrs. C.

HOGS

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Improved Hampshires

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Herd Sires: Bright Glory, Spottite Supreme, Spottite Jr. Gilt bred for March and April farrow, sired by a choice set of young boars.

PRODUCTION HAMPSHIRE

Dale Scheel, Emporia, Kan.

Kansas State Duroc Breeders' Association Bred Gilt Sale

Fairgrounds

Topeka, Kansas
February 14

(Strictly bred gilts) 50 head consigned by 29 breeders in Kansas. Show at 10 A. M. Sale at 1 P. M. For catalog address John O. Miller, c/o Topeka Chamber of Commerce, Bert Powell, auctioneer.

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Will be held in the Chamber of Commerce Sales Pavilion just back of Transit House in

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SELLING 40 REGISTERED GILTS bred for February, March and April litters to "Progress" one of the breeds better boars and to "Prospect." Gilts represent leading bloodlines and are of the type to produce the kind that should appeal to both breeder and farmer. Let us send you a catalog which will tell you about this offering. New blood for old customers.

EARL MARTIN & SON, DeKalb, Mo.

CHOICE DUROC BRED GILTS

Sired by Leader's King, The Kansas and Victory Ace. Bred to Artese Orion Spot Light, Fancy Wonder and Leader's King for March and April farrow.

ARTHUR E. ROEPKE, Waterville, Kansas

14 Duroc Bred Gilts

These registered Duroc gilts are very nice. are bred for March and April litters. The pick of a large number of last spring pigs. None from a smaller litter than 9. Cholera immuned. Bred to Leaders Lad 331947 whose sire was Fancy Colonel Jr. Leaders Lad was 1st prize spring boar at the 1947 Kansas State Fair, Hutchinson. Inquire of

GEORGE J. WETTA, Andale, Kansas

CHOICE DUROC GILTS

Sired by Top Crown. Bred to real herd sires for fall litters. Best type conformation and color. Fancy Spring Boars and Open Gilts by Top Crown. One fall boar.

R. M. HOOK & SON, Silver Lake, Kansas

Offering Duroc Bred Gilts

Sired by Spot Light's Challenge and Victory Broadway. Good quality, deep smooth bodies. Bred to Lo-Master and Fancy Challenge (from the Brack herd). Immuned and guaranteed. Also a few fall pigs.

WM. BOHLEN, Downs, Kansas

Shepherd's Superior Duroc Gilts

Bred to Lo-Thickmaster and Super-Spotlight Proven Sires of highest class Modern Durocs. March farrowing. Three great March and also fall boars for sale. Guaranteed to please. See these or write before buying. See us for best in Durocs.

G. M. SHEPHERD, Lyons, Kansas

SPOTTED POLAND CHINA BOARS

Ready for service. Sows and gilts sired by or bred to Buster Boy and his helper, Advancer Grandview Supreme. Weaning pigs champion breeding. DALE KONKEL, Haviland, Kansas.

Crops Need Help

Many crop plants, when given assistance against nematodes, grow with the vigor of the principal weeds, plant scientists are demonstrating.

Nematodes, or eelworms, today stand exposed by research for the crop destroyers they really are. Those that attack plants haven't received much attention in the past, according to Dr. G. Steiner, U. S. D. A. plant nematologist, because as a rule they do not actually kill the plants but—what is often worse for the farmer—they lower vigor and keep down yields. If they killed their hosts, says Steiner, measures would be taken against them sooner. By reducing yields they lead farmers on to long continued unprofitable cropping and much waste of labor, seed and fertilizer.

On the other hand, the nematologists have come to believe that one explanation of the vigor of some widespread weeds is the fact they are not attacked by nematodes. At least not by such common and widespread ones as the one causing rootknot in so many crops.

Ragweed is already known, say Doctor Steiner, as a plant that stands up well alongside most crop plants because nematodes, including the one responsible for rootknot, pass it by. Now, he says, they are hoping to turn their research on Mexican clover (a plant of the Madder family, with the botanical name *Richardia scabra*), a widely distributed weed which in the Southeast is often called Florida purslane. He suspects its wide adaptation also may be due to its freedom from nematode attack.

No Time to Sell

It is a mistake for farmers to sell out at today's high prices with the hope of buying back in later, advises Karl Shoemaker, Kansas State College marketing specialist.

"The cattleman who sold out in 1943 because prices were too high missed 3 of the most profitable years in the business," reminds Mr. Shoemaker. "Remember," he continues, "whenever a farmer sells his working capital his income stops and his opportunity for profit on his investment stops."

"Only the farmer who is old enough and rich enough to retire should consider selling his working capital now," Mr. Shoemaker concludes.

A \$500 Limit

Farmers planning now to carry out soil- and water-conservation practices under the 1948 program should not overlook the \$500 limitation on payments. This advice comes from Glenn H. Johnson, state PMA chairman.

Payments made to farmers under the agricultural conservation program are to help defray the cost of approved conservation practices. Assistance is given both in payments and in materials and services. This assistance averages about 50 per cent of the cost with, in many instances, the farmer doing the work. In any event, however, no one person can receive to exceed \$500.

Can Go too Far

A warning to farmers not to over-liquidate their livestock has been issued by Karl Shoemaker, Kansas State College marketing specialist.

Farmers with sound livestock production programs probably will be in a strong position by the fall of 1948 if they continue their livestock operations on about a normal basis, says Mr. Shoemaker. Remember, he adds, that overliquidation of livestock generally results in cheaper feed grain prices at least by next harvest, and higher livestock replacement prices.

A Kick in Nitrate

Applications of ammonium nitrate made big differences in wheat yields on the Curtis Thompson farm, Labette county, last year. Where no nitrate was used, the wheat yield was 23.7 bushels an acre, but 75 pounds of 32 per cent nitrate stepped it up to 32.3 bushels. Where he used 150 pounds of nitrate an acre the yield was 41.2, and 300 pounds of nitrate increased the yield to 48.8 bushels.

Mr. Thompson had grown no sweet clover prior to the test plots, County Agent Warren Teel reports, but plans to seed 50 acres this spring.

COMPLETE DISPERSAL Of the Cliffview Registered Holsteins

In Heated, Sanitary, Sale Barn

Leavenworth, Kansas, Tuesday, January 27

50 Head

One of Kansas' Top Herds With Small Consignments From Neighbor Breeders

50 Head

28 Cows and Springer Heifers

15 Heifers and Heifer Calves

7 Bulls and Bull Calves



Featuring the herd sire, Hopeview Fobes Aspirant 13th (selling). He is a double grandson of Posch Ormsby Fobes 11th, reserve all-American 2-year-old, still in service at 13 years at Larro Research Farm. (13th) sired the 1st prize heifer calf Topeka, 1947; his oldest heifer fresh and milking 50 lbs. per day.

THE CLIFFVIEW HERD is classified for type, and tested for production, records up to 562 fat, in 333 days 2X. The Cliffview herd has made over 400 lbs. fat average each year for the last 4 years, all 2X records.

Mr. Beckwith is leaving the farm, and to make a sale of greater numbers, Vincent Edmonds is consigning his registered Holsteins; they are a top selection, including an own daughter of "Woodmaster." Grover Meyer is consigning 4 head, 2 heifers bred to "Lucifer." Consignments from the Jamison and Curtis herd at Lansing, 2 head from Paul Jamison at Atchison.

A SALE OF BREEDERS CATTLE, OVER HALF THE BECKWITH HERD ARE DESCENDANTS OF ONE COW AND THAT COW IS STILL IN THE HERD.

Individual health papers on each animal, as tested within 30 days of the sale. Many are calfhood vaccinated.

In addition to the above sire there will be daughters and granddaughters of King Creator Champion Segis (proven); S.B.A. Fraternity Inka Lad; Dunloggin Woodmaster; Hopeview Fobes Aspirant 13th; and Montvic Ragapple Starlight.

A good sale to bolster milk production, and improve your breeding program.

Sale starts at 12:00 sharp, Leavenworth Sales Barn—For catalogs, write

CLIFFORD BECKWITH, Manager

Cliffview Dispersal, Rt. 4, Leavenworth, Kan.

Auctioneers: Henry Stiglmeire and Raymond Zimmerman In the box: T. Hobart McVay

Second Annual Sale

Wednesday, January 28, Harper, Kansas

50 Registered Herefords

21 Bred
18 Open
HEIFERS

3 two year
4 one year
4 calves

BULLS



Unlweed Domino 77th



Advance C Domino 4th

Cream of our Herd Headers are:

W. H. Rupert Zesto—Beau Zento 32nd—H. T. Tone

Advance C. Domino 4th—Uniweep Domino 77th—Colo Domino E 1st

Uniweep Domino 77th—Colo Domino E 1st—Colo Domino 159

C. K. Royal Domino—Royal Domino 5th—W. H. R. Royal Domino 5th

A. R. Schlickau & Sons, Haven and Argonia, Kan.
Olivier Bros., Harper, Kan.

Sale held under cover 5 miles northeast of Harper, Kansas.

For Catalog write EDD OLIVIER, Harper, Kansas

Freddie Chandler, Auct.

Mike Wilson with Kansas Farmer

Reliable Advertisers Only Are Accepted in Kansas Farmer

Northeast Kansas HEREFORD Association Sale

Kansas Free Fair Grounds

Topeka, Kan. -- Saturday, February 7

Placing for sale rotation at 9 A. M. — Sale at 12:30



**54 Head—40 Bulls, 14 yearlings and 26 calves in 1947
14 Females from 1947 calves to 3-year-olds**

Consignors:

Anderson, Walter—Scranton
Becker, E. G.—Meriden
Beeks, Claude B.—Baldwin
Beeks, John W.—Baldwin
Belden, Wm.—Horton
Booth, Forrest W.—Wellsville
Campbell, J. C.—Rossville
Cleland, F. W., & Son—Baldwin
Engler, Allen—Topeka
Gideon, G. R.—Paxico
Gideon, L. H.—North Topeka
Hanson, Howard—Esckridge

Hug, Frank—Scranton
Kovar, Clyde—Rossville
McKnight, James—Esckridge
Molvane Farm—Rossville
Premier Farms—Walcott
Sackett Farms—Tonganoxie
Sanders, N. S.—Miller
Sanders, R. R.—Miller
Southard, J. M.—Topeka
True, Wm.—Paxico
Welton, R. L.—Tonganoxie
Williams, Orion—Hoyt

Let Taylor, Kansas State College, Judge — Guy Pettit, Auctioneer — H. W. Wilson, Clerk
Lunch will be served on the grounds. For catalog address
E. G. BECKER, Secretary, Meriden, Kan.
Mike Wilson with Kansas Farmer

The Glenn I. Gibbs 7th Annual Hereford Sale

will be held at

Clay Center, Kan., Saturday, Jan. 31

In sale pavilion—Starts at 1 p. m.



15 Registered Heifers
(9 to 19 months old)
17 Registered Bulls
ranging in ages from 9
to 12 months.

These calves are especially good over the loin, and carry a nice length of body. A very smooth and good-headed bunch of calves. They have these characteristics as well as a great line of breeding, and they show great promise for the buyers.

GLENN I. GIBBS, Manchester, Kan.

Auct.: Ross B. Schaulis

Mike Wilson and Jesse E. Johnston with Kansas Farmer



Polled (Hornless) Shorthorns

Cherry Hill Hallmark sired by the \$5,700 Gosshall Zimenes and bred by Oakwood Farm, Ashville, Ohio. (his dam was good enough for Cherry Hill Farms to own) and Red Coronet 2nd sired by the International Champion and bred by the Thiemans, Concordia, Mo., are producing the most perfect calves in the history of the herd (established 1907).

BULLS FOR SALE: We offer 10 sons by "Cherry Hill Hallmark" and 10 sons by "Red Coronet 2nd." Calfood vaccinated. Delivered in Kansas at cost.

Farm Location: 22 miles west and 6 miles south of Hutchinson.

J. C. BANBURY & SONS, Phone 13F2, Plevna, Kansas

IN THE FIELD



Jesse R. Johnson
Topeka, Kansas
Livestock Editor

and MIKE WILSON, Livestock Fieldman, Muscotah, Kansas.

Each year Kansas State College selects some prominent livestock man and honors him by placing his photo in the college gallery. This is a part of the annual students banquet. The late H. B. Walter, of Bendena, was selected for the 1947 honor.

Mr. Walter, who passed away in 1942, was widely known as a breeder, exhibitor and judge of Poland China hogs for more than 40 years. Prof. C. W. McCampbell will officiate at this service and the program will be heard over WIBW between 12:30 and 1 p. m. on Friday, January 23. All friends and others are invited to tune in at the hour of this service.

The well improved J. P. TODD Jersey stock farm at Arlington where Mr. Todd bred and improved Jerseys for so many years, has been sold to Leonard Friesen, of Wichita. Mr. Todd has sold the entire herd of cattle to the Hallmark Farm at Kansas City.

Several errors were made in a news note in a recent issue of KANSAS FARMER concerning the situation on the ARTHUR ROEPKE Duroc farm, at Waterville. Mr. Roepke was entirely sold out of fall gilts instead of bred gilts. He is now just beginning to move his choice bred gilts. Also his 100 or more spring pigs will not begin to arrive until about March 1st.

There is activity on the McCLURE HAMPSHIRE FARM located at Republic. Fifty fat steers are on feed and the market is being watched for advances or breaks. Proprietor Cliff was busy baling alfalfa on Christmas day. The Hampshire boars were sold at an average of \$100 a head. Plans are being made to attend the Bergsten sale at Randolph on February 12, according to the firms secretary.

LEO F. BREEDEN, progressive Milking Shorthorn breeder of Great Bend, reports the new year demand fully active as it was during the year just closed. A letter written January 6, mentions having sold 2 bulls and 2 heifers that day. The bulls and one of the heifers were sired by his good breeding bull Griffarm Promoter. Both bulls were sold near home which indicates the continuous popularity of the Breeden Shorthorns. The heifers went to a good breeder at Macksville. The Breeden Herd was established when the breed was not as popular as it is now and its founder has had a big part in bringing this his favorite breed to the attention of Kansas farmers.

Star Design is the Hampshire boar of the year, as well as all other years, in the opinion of R. E. BERGSTEN & SONS, Hampshire breeders at Randolph. Meaning that this boar's owners consider him easily the greatest boar ever owned by them. This young fellow was bred on the Bergsten farm as was his sire and grand-sire, and his dam was purchased in dam and developed by Bergstena. His sire, All Star, is a full brother to Proud Ruler, the \$3,050 Illinois grand champion of 1947. Five Star, the grandsire of Star Design, was one of the great sires of the breed. The young boar Star Design has been used extensively along with The Showpiece in mating sows for 1948 farrowing. About 70 head of sows and gilts have been bred for spring litters.

J. F. McKENNY, Aberdeen-Angus dispersion held at Maryville, Mo., on December 29, attracted buyers from 4 states. They filled the large sale pavilion to capacity. One hundred and twelve female lots averaged \$431. Many had calves at side, and other lots were sold separately. In many instances the calf would bring almost as much as its dam, which indicates that good registered Angus cows are money makers. This is especially true when they were sold right off the pasture as this group of cattle sold.

Top of the sale was a Witch of Endor cow with heifer calf which sold for \$2,150. M. L. McCrea, Maysville, Mo., bought the heifer calf at \$800 and the cow sold for \$1,350 to Paul Shultz, Rosendale, Mo. The bulls sold well and 15 bulls that were of service age averaged \$390 with a \$750 top. Ten bull calves averaged \$187.50. Kansas buyers purchased several head. Missouri breeders and farmers bought the larger part of the offering, but Iowa and Nebraska buyers purchased several. This breeder had been in the business for 35 years and had contributed a great deal to the building of this important breed of beef cattle. Johnston and Simms were the auctioneers.

A Homestead Patent

Did you ever see a homestead patent? I saw my first one the other day. It was yellowed with age and reposed, along with other keepsakes and valuables, in a lard can belonging to Mr. and Mrs. Julius Walchle, who live south of Wakefield, in Clay county.

It was made out to John Ulrich Walchle, father of Julius, and was issued in 1862 for the very land on which I was standing. Julius has lived there since he was born on November 10, 73 years ago.

The first Mr. and Mrs. Walchle came to this country from Switzerland and settled on that farm 85 years ago. Julius Walchle is carrying on in his father's place, and still is active in the farm management, altho he rents the farm land to neighbors.—Mrs. Charles Streeter, Riley.

Dairy CATTLE

Moore Dairy Dispersal

Sale held 1 mile southwest of Springfield, Missouri on Bennett Street Road or 1/4 mile north and 1/4 mile west of Sherwood School.
Thursday, January 22
9:30 A. M.

61 Head Sell—Choice High Grade Jerseys, Guernseys and Milking Shorthorns

Ages 3 to 7 years old—majority Heavy Springers—balance have already freshened within 30 days. Herd is of high production breeding—several 4- to 7-gallon cows—herd test 5% now—2 high grade yearling Guernsey Bulls.
DAIRY EQUIPMENT SELLS: 3-unit Surge milking machine and 8-can milk cooler. Lots of feed. All farm machinery which includes Alfa-Chalmers W C Tractor on rubber. Also AC Alfa-Chalmers Model B Tractor on rubber. 1946 Model Chevrolet Pickup truck. Farm for Rent—300-acre dairy farm will be offered for rent for 1 year at auction.
Jess Moore, Owner, Springfield, Mo.
Auctioneer: Tony Thornton, Springfield, Mo.



Sluss Offers Brown Swiss Bulls

For Sale: A few registered Brown Swiss Bulls from 1 to 2 years old. Over 28 years breeding better Swiss. Farm 4 miles south of El Dorado. Phone 538.
G. D. SLUSS, Rt. 1, El Dorado, Kansas

THE SONS OF "BURKE"

In service at SUNNYMEDE FARM
PABST BURKE LAD STAR
Senior Sire
PABST BURKE NED
Junior Sire
Sons of these sires now available. Herd of 17th consecutive year of Holstein-Friesian Improvement Test.
C. L. E. EDWARDS, Topeka, Kansas

Near Service Age Holstein

Born March 8. Sire's 7 nearest dams average over 800 lbs. fat with 4.1% test. Own dam finishing a 2-year-old record of 800 lbs. of 2X in 30 months. She completes sixth generation of cows averaging over 500 lbs. fat on 2X. Excellent individual. 1/2 black. Price \$300.
ERNEST A. REED & SONS, Lyons, Kansas

Smoky Valley Ormsby Countryman

For sale. Born November 27, 1946. Sire—Carleton Countryman, son of a Silver Medal sire himself almost proved. Dam—Smoky Valley Ormsby Queen (612 fat as a 5-year-old).
W. G. BIRCHER, Elsworth, Kansas

BULL CALVES FOR SALE

We bred and developed the first and only Holstein cow in Kansas to produce 3,000 pounds of fat in 365 consecutive days. Young bulls of high-production dams or granddams.
M. A. DRESSLER, LENO, KAN.

GUERNSEY BULL FOR SALE

15 months old, registered and of good quality and breeding. Out of a high-producing dam. Priced right.
J. W. WOFFORD, Rt. 1, Milford, Kansas
Telephone Junction City 83F02

Guernsey Bulls for Sale

Registered — Langwater Breeding — 1947 herd average over 400 pounds B.F.
OAK LAWN FARM
Jacob H. Wiebe, Whitewater, Kansas

REGISTERED GUERNSEYS

Since 1906 High Production. Correct Type. Popular Bloodlines.
Ransom Farm, Homewood (Franklin Co.), Kan.

Dual-Purpose CATTLE

Offering Milking Bred Shorthorns of High Quality



Red yearling sons of Bonvue Royal and Griffarm Promoter and out of R. M. classified "Very Good" dams and bred to Promoter Dairyman. Inspection invited. Herd established over 20 years.
LEO F. BREEDEN, Great Bend, Kan.

DUALYLN MILKING SHORTHORNS

Bull calves, related to the National Grand Champion cows, Dualyln Juniper and Bluff Jacket Roan Lot, for sale at reasonable prices. Herd sires: Queenston Babraham R.M.; Imported Iford Earl Gwynne 11th; Neralcam Admiral and Count Perfection.
JOHN B. GAGE, Eudora, Kansas

MILKING SHORTHORNS

Let us help you locate the cattle you need. Want. For particulars write Kansas Milk Producers Assn., C. O. Heidebrecht, Sec., Iaman, Kan.

Mention KANSAS FARMER When Writing Advertisers

Beef CATTLE

Complete Dispersal of Polled Herefords February 5 at Covington, Oklahoma

40 LOTS — 48 HEAD
 19 bulls, 6 open heifers, 5 bred heifers, 20 cows (4 horned).
 Cows mostly Domino and Mischief bloods. Cow herd bred to T. Mellow Real 5th by Mischief, Trenfield bred bull, and Beau Rolle 44th by Beau Perfect 240th and John M. Lewis and Sons, Larned, Kan. Full brother of the \$6,100 heifer Beau 7th. Many desirable individuals. Catalog write to
A. W. SCHULTZ, Owner
 Medford, Okla.

TRY PLAIN VIEW FARMS POLLED HEREFORDS

For sale now Young Herd Bulls and Heifers, the same breeding and quality as sold in our sale November 14, 1947, which was the highest average beef cattle sale in the state this year. Farms on highway K 43, eight miles north of Hope and 8 miles west and 2 1/2 east of Enterprise, Kansas.
ESSE RIFFEL & SONS, Enterprise, Kan.

FOR SALE 1- and 2-Year-Old Polled Hereford Bulls

Plato Aster 35th, Worthmore and Plato breeding. Priced reasonable. Bob White Hereford Farms, James Riffel, Manager, Enterprise, Kan. Woodbine telephone exchange.

Reg. Hereford Bulls

Coming 4-year-old bull, very good, thick, set, extra good disposition, sired by Beau 1st 2750713. Also some bull calves, 12 months old, good herd bull prospects.
ROBERT E. LOCKHART, Osborne, Kan.

BEEFMAKER BULLS (Aberdeen-Angus)

Have become a fixed type in the opinion of good judges. They do well for others. Come to them. Next production sale Saturday, March 13, 1948.
C. E. REED
 14 East Central Ave., Wichita 6, Kan.
 Telephones 6-8313 residence; farm 5-3888

Applewood Bandoliers

Offering Aberdeen-Angus: 35 head of bulls and heifers (1947). All grand and double granddaughters by sons of Bandolier of 3rd (a full brother to International and Champion). This bloodline and the one that has been topping so many sales and is kind that breed on Farm Near Kansas State Line. Inquire of Ed Folka, Box 20, Werten, Nebraska.

OFFERING PUREBRED ANGUS BULLS

Good individuals from 1 year to 15 months old. Excellent breeding and in the best of breeding form.
J. W. WOFFORD
 1 - Milford, Kansas - Telephone 83F02
 Farm on highway 7 1/2 miles northwest of Junction City.

Aberdeen-Angus Bulls

Registered bulls for sale. 16 and 20 months old.
BOE JAUERING, Rt. 4, Burlington, Kan.

GOOD OFFERS SHORTHORN BULLS

Five 5 bulls ranging in age from 8 to 15 months old. All red and sired by Will O Pat sired by Calrossie Prince Peter. These are registered Shorthorns. Inquire of
EMERSON S. GOOD, Barnard, Kansas

A NICE SELECTION

Registered Shorthorn Bulls sired by Divide and Nice colors, good disposition, best of all. Also a few choice heifers.
C. LACY and GLENN E. LACY & SON
 Miltonvale, Kansas

Registered Shorthorn Bull

From Durham bull. A dandy, fine disposition. Price at \$250.
W. L. GOODING, Modoc, Kansas
 Farm 14 miles west and 4 miles north of Scott City, Kansas

REGISTERED SHORTHORNS

Bulls — FEMALES — 4-H Calves
C. H. BALSTIN, Mullinville, Kan.

g. Beef Type Shorthorns

Young cows and heifers. Bulls 6 to 22 months old.
ROY E. DICKSON, Calhan, Colorado

RELIABLE ADVERTISERS ONLY ARE ACCEPTED IN KANSAS FARMER

Public Sales of Livestock

Aberdeen-Angus Cattle
 February 9—Vern V. Albrecht, Smith Center, Kan.
 February 18-19-20—National Show and Sale, Chicago, Ill. Frank Richards, Sales Manager, American Aberdeen-Angus Breeders' Association, 7 Dexter Park Avenue, Chicago, Ill.
 February 24—U. S. Center Angus Association, Smith Center, Kan.
 February 27—Heart of America Association, Kansas City, Mo. Leo B. Parker, Secretary, Walltower Bldg., Kansas City, Mo.
 February 28—L. M. Thornton, Garden City, Mo.
 March 1—Johnston Brothers, Belton, Mo.
 March 2—Penney & James, Hamilton, Mo.
 March 13—Reed Stock Farm, Wichita, Kan.
 April 5—Omaha Spring Breeders' Consignment Sale, 30th and L Sts., H. C. McKelvie, Sale Manager, Omaha 7, Nebr.
 April 17—Mid-Kansas Aberdeen-Angus Association, Hutchinson, Kan. Lonnie Hershberger, Sale Manager, Little River, Kan.

Ayrshire Cattle
 January 20—Fred Williams, Hutchinson, Kan.
 February 7—Oklahoma's Registered Ayrshire Sale, Newkirk, Okla. Frank V. Lile, Ayrshire Sale Service, Bellefontaine, Ohio.

Guernsey Cattle
 April 30—Missouri Guernsey Breeders' Association, Columbia, Mo. H. A. Herman, Secretary, University of Missouri, Columbia, Mo.
 May 25—Omaha Spring Breeders' Consignment Sale, 30th and L Sts., H. C. McKelvie, Sale Manager, Omaha 7, Nebr.

Hereford Cattle
 January 28—Schlickau and Olivier, Harper, Kan.
 January 31—Glen I. Gibbs, Manchester, Kan. Sale at Clay Center, Kan.
 February 2—Waite Bros., Winfield, Kan.
 February 7—Northeast Kansas Breeders, Topeka, Kan. Elmer K. Becker, Secretary, Meriden, Kan.
 February 16—State Hereford Sale, Hutchinson, Kan.
 February 18—Kansas Hereford Association, Topeka, Kan. A. G. Pickett, Sale Manager, Manhattan, Kan.
 February 17—Lincoln County Association, Vesper, Kan. Jim Wright, Secretary, Vesper, Kan.
 February 21—C-K Ranch, Brookfield, Kan.
 February 23-24—Annual Hereford Round-up Sale, Kansas City, Mo.
 March 1—Marshall County Hereford Assn., Marysville, Kan.
 March 18—Northwest Kansas Hereford Association, Atwood, Kan. J. M. Rogers, Sales Manager.
 March 22—Lyle Mitchell, Osborne, Kan.
 March 23—North Central Kansas Breeders' Association, Concordia, Kan. Dr. Geo. R. Wreath, Manhattan, Kan.
 April 21—Omaha Spring Breeders' Consignment Sale, 30th and L Sts., H. C. McKelvie, Sale Manager, Omaha 7, Nebr.

Polled Hereford Cattle
 February 5—A. W. Schultz, Medford, Okla. Sale at Covington, Okla.
 April 12—Bob White Dispersal sale, Enterprise, Kan.
 May 4—Omaha Spring Breeders' Consignment Sale, 30th and L Sts., H. C. McKelvie, Sale Manager, Omaha 7, Nebr.

Holstein Cattle
 January 27—Cliffview Farm, Leavenworth, Kan. Clifford Beckwith, Manager, Leavenworth, Kan.
 April 12—Omaha Spring Breeders' Consignment Sale, 30th and L Sts., H. C. McKelvie, Sale Manager, Omaha 7, Nebr.

Shorthorn Cattle
 March 23—North Central Kansas Breeders, Beloit, Kan. Edwin Hedstrom, Secretary, Mankato, Kan.
 March 24—Reno County Shorthorn Breeders, Hutchinson, Kan. Mervin Aegerter, Seward, Nebr.

Milking Shorthorn Cattle
 March 29-30—Omaha Breeders' Spring Show and Consignment Sale, 30th and L Sts., H. C. McKelvie, Sale Manager, Omaha 7, Nebr.

Polled Milking Shorthorn Cattle
 March 31—Omaha Spring Breeders' Consignment Sale, 30th and L Sts., H. C. McKelvie, Sale Manager, Omaha 7, Nebr.

Dairy Cattle—All Breeds
 January 22—Jess Moore, Springfield, Mo.

Duroc Hogs
 January 28—Hart Duroc Farms, Lees Summit, Mo.
 February 2—Earl Martin & Son, DeKalb, Mo. Sale at South St. Joseph, Mo.
 February 9—Vern V. Albrecht, Smith Center, Kan.
 February 11—Clarence Miller, Alma, Kan.
 February 14—Kansas Breeders' Association, Topeka, Kan. John O. Miller, Sale Manager, c/o Chamber of Commerce, Topeka, Kan.
 February 25—NCK Duroc Sale, Belleville, Kan. Morley & Wreath, Sale Managers.
 March 2—Wreath Farm and Germann & Son, Manhattan, Kan.
 March 4—Willis Huston, Americus, Kan.
 March 25—Harry Givens, Manhattan, Kan.

Hereford Hogs
 February 20—Kansas State Hereford Hog Breeders, Hutchinson, Kan. Milt Haag, Holton, Kan.

Hampshire Hogs
 February 7—O'Bryan Ranch, Hiattville, Kan.
 February 12—R. E. Bergsten & Sons, Randolph, Kan.

O I C Hogs
 February 18—Kansas O I C Swine Breeders' Association, Hutchinson, Kan. Vernon Zimmerman, Secretary, Inman, Kan.

Poland China Hogs
 February 14—Kansas State Poland Sale, Ray Saylor, Sale Manager, Manhattan, Kan.
 February 16—Bauer Brothers, Gladstone, Nebr.
 February 17—Raymond W. O'Hara, Mankato, Kan.

Spotted Poland China Hogs
 March 2—Carl Billman, Holton, Kan.

Trend of the Markets

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

	Week Ago	Month Ago	Year Ago
Steers, Fed	\$31.25	\$30.00	\$30.00
Hogs	28.85	27.00	24.00
Lambs	26.50	24.25	23.85
Hens, 4 to 5 lbs.	.27	.18	.20 1/2
Eggs, Standards	.42 1/2	.56	.37 1/2
Butterfat, No. 1	.88	.82	.65
Wheat, No. 2, Hard	3.47 1/2	3.23	2.14 1/4
Corn, No. 2, Yellow	2.80	2.73	1.35
Oats, No. 2, White	1.44 1/2	1.38 1/4	.89 1/2
Barley, No. 2	2.15	2.09	1.36
Alfalfa, No. 1	37.00	39.00	35.00
Prairie, No. 1	20.00	20.00	25.00

Albrecht Stock Farm Dispersal Sale Duroc Hogs & Angus Cattle

Sales Pavilion

Smith Center, Kan. — Monday, Feb. 9

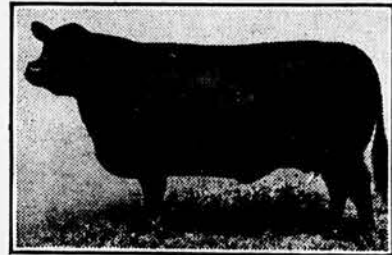
Durocs—50 Head Bred Sows and Gilts



15 Fall Boars and Gilts, sired by several of the breed's best sires, and from quality dams. Bred to "Western Star" son of "Red Star" the thirteen hundred pound twice Ohio Grand Champion, and "Low Design" top boar in the Waldo sale at DeWitt, Nebr. These are top gilts bred to the best boars available. Durocs since 1900.

Reg. Angus—Our entire herd 30 head

Bred Cows, Cows with Calves, Heifers, also our 2,000-pound herd sire "Harlanviews Revolution." These are not show cows, but are quality cows that are regular producers. This herd was established a number of years ago with females of popular bloodlines with the idea in mind of building one of the good producing Angus herds in this section of the country. Everything tested and vaccinated by Doctor Reed.



For catalog and information write

Vern V. Albrecht, Smith Center, Kan.

Bert Powell, Auctioneer

Mike Wilson for Kansas Farmer

Walnut Valley HEREFORD Sale Fourth Annual Auction Sale

AT WINFIELD FAIR GROUNDS
 February 2, Time 1 P. M.



O J R Domino Royal 9th. He sells as Lot 1

45 HEAD—25 Bulls, 20 Heifers—45 HEAD HAZLETT and W H R BREEDING—BLENDED

O J R Domino Royal 9th, pictured above, sells as a special attraction. We are selling him only because we have a young bull bred almost identically like him and we are retaining a large number of his heifers in our own herd.

The sale offering is sired by O J R Domino Royal 9th, Real Domino Return, W H R Contender Domino 1st and W H R Worthy Domino 41st. Herd Bulls, Top Range Bulls and Foundation Females.

15 of the heifers are bred to O J R Jupiter Star 12th, a sensational young sire.

5 Open Heifers of top quality.

Write for Sale Catalog to

Waite Brothers, Winfield, Kansas

Auctioneer: A. W. Thompson

Herdsmen: Albert Cundell

Mike Wilson representing the Kansas Farmer

Buy United States Savings Bonds

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the right ratios of nitrogen, phosphate and potash.

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