

KANSAS SECTION THE CAPPER FARM PRESS

KANSAS FARMER AND MAIL & BREEZE

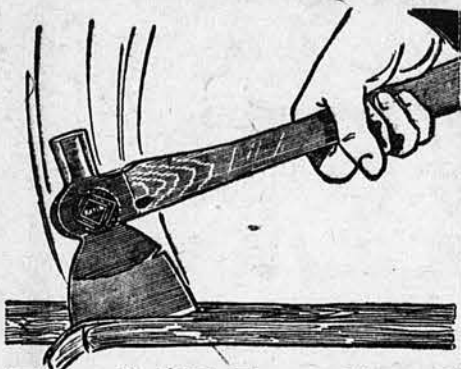
AGRICULTURAL COLLEGE
JUL 21 1922

Volume 60

July 22, 1922

Number 29





It's A Wonder!

That's what the users of **RICH-CON** Hatchets say. Day after day they stay on the job. Ready for any task called upon to perform.

Yet this is a characteristic of all **RICH-CON** tools. Every Tool carrying this famous trade-mark is made with one idea in mind—to give Service.

What Do You Know About Tools?

WIN \$25!



Simply send us your name and address for free picture showing a farmer at work. Pick out the tools he used. Best flat wins \$25; second prize \$15; third prize \$10. Interesting, instructive. This picture may also be secured from your Hardware Dealer.

The Richards & Conover Hardware Co.
KANSAS CITY, MO.
OKLAHOMA CITY, OKLA.

New, Sure Process That Makes Perfect Jam and Jelly

One Minute's Boiling Gives One-Half More Product

By Ann Proctor

Increasing thousands of housewives all over the country are making perfect jams and jellies by the new Certo Process and passing on the good news to their friends. Certo (Surejell) is what you have always needed—a concentrated, pure fruit pectin, put up in 8 oz. bottles for home use. Certo never fails; it is economical, not alone because it saves your time and anxiety, but because the short boiling period (one minute) saves your fruit juice and gives you at least one-half more product from the same amount of fruit.

With Certo you can make perfect jam and jelly from all fruits, even from those we have always supposed "would not jell." Please use the fully ripened fruits and take advantage of their superior color and rich flavor. There is no long boiling time to boil this away. With Certo the ripe fruits "jell" perfectly. No matter what fruit you use—blackberries, gooseberries, pears, peaches, grapes, rhubarb, or oranges—you will get better and more economical results with Certo than by the uncertain, long boiling, old-time way. Certo-made jams and jellies have perfect keeping qualities.

Certo has been on the market only a little more than a year, yet it has been endorsed by such authorities as Good Housekeeping Institute, Boston Cooking School, Today's Housewife's Testing Laboratory, American Cookery and by Domestic Science writers, teachers and lecturers all over the country. You can now get Certo with the Book of Recipes containing nearly 100 recipes for jams, jellies and marmalades from most grocers or druggists. Or we will send it parcel post prepaid for 35c. Be sure to include grocer's name and address and we will see that he carries it for convenience of yourself and friends. Just try one bottle of Certo; find out for yourself the value and usefulness of this highly endorsed, easy, sure, better method of making jam and jelly. You will never go back to the old way. **PECTIN SALES CO., INC.**, 624 East Ave., Rochester, N. Y.

Have you noticed how many of your neighbors are now reading **Kansas Farmer and Mail and Breeze**?

Farm Organization News

BY RURAL CORRESPONDENTS

GRASSHOPPERS are beginning to receive their annual ration of poison bran mash in Meade county, according to C. R. Merydith, county agent. Mr. Merydith reports that W. W. Kimes, H. M. Boyd, J. H. Heironimus, Mrs. Josie Roades, Fred Ross, B. F. Dye, and L. M. Taylor were among recent callers at the farm bureau office who received poison for hoppers.

Cloud Women Study Millinery

Mrs. C. B. Loofburrow in Sibley township has organized a group of 16 women and made application to Theodore F. Yost, Cloud county agent for the assistance of a millinery specialist from the Kansas State Agricultural College. This is the second group of women in Cloud county to organize into a millinery class and ask for a specialist, according to Mr. Yost.

Miss Virginia Bedor, who lives 1½ miles south of Hollis, has called a meeting to organize the third class. When this is done the women will then obtain the services of the millinery specialist from the college without extra cost to themselves.

Grain Car Distribution

The Kansas Public Utilities Commission has set July 28 at Wichita as the time and place for the hearing to ascertain whether the grain car distribution rules, promulgated by their order September 1, 1920 known as docket number 3630, should in any way be changed or modified.

Secretary Charles R. Weeks, of Kansas State Farm Bureau is making a survey of the 60 organized counties of all the co-operative and privately owned elevators and of the farmers themselves to get the facts of the true condition to lay before the commission at this hearing.

Chautauquas For the Farmers

Chautauqua companies conducting chautauquas thruout Kansas, are recognizing the farmers by designating one day as farmers' day, some of them making this a free day for all farmers. Besides outside talent, President Ralph Snyder and Secretary Charles R. Weeks of Kansas State Farm Bureau have been called upon to address a number of these chautauquas. At these meetings the town people in attendance have shown as much interest as the farmers themselves. This should result in getting all classes to better understand the farmer's problems.

Kansans See President Harding

President Harding entertained 13 farm leaders at an informal luncheon at the White House, Thursday, June 29. President Ralph Snyder of Kansas State Farm Bureau and John Tromble, President of the Kansas Farmers Union were guests at this function. President Harding discussed the subjects of rural credits and ship subsidy with these farm leaders. The party was very informal and everyone took part in the discussion.

Chicago Firm in Good Start

The Producers Livestock Commission Association, established at the Chicago yards recently, made a good start when it opened for business June

19. On that day it handled six cars of stock, all from Iowa.

The following day it handled 30 cars shipped from Indiana, and 29 from Illinois. This business gave it a place well up toward the top of the 200 commission companies at the Union Stock yards.

Hollis Farmer Makes Cheap Silo

W. S. Bedor of Hollis, constructed a pit silo last winter. The silo is 16 feet in diameter and 25 feet deep and will hold 100 tons of silage. Outside of his own labor the silo only cost \$85, which was for cement and some extra labor. Mr. Bedor did practically all of the work himself.

This silo is going to be filled with kafir. The silage will be lifted with a cable stocker and team. This shows that everyone can afford a silo. The cost is not the limiting factor in this case.

Believes in Early Plowing

A. S. Fellers, who lives near Hays, has 150 acres of ground plowed for wheat this fall, according to Carl L. Howard, Ellis county agent. Mr. Fellers does not put all of his land to wheat as some men in Western Kansas do, however. He has 80 acres of oats this year and is cutting a large part of it for horse feed.

Marshall Farmers Inspect Grain

Marshall county is having its Kanred wheat and Kanota oat fields inspected by the Kansas Crop Improvement Association, according to John J. Inskeep, county agent. L. E. Willough, representing the Kansas Crop Improvement Association and crops specialist of the extension division of the Kansas State Agricultural College, inspected Kanred fields for A. E. Jones, Bigelow, and F. R. Fleming of Winifred.

Kanota oats on the farms of Frank Wacek and Charles Wacek of Irving, A. E. Jones, Bigelow; W. E. Turner, Waterville and Henry Loche of Bremen, were inspected on the same trip.

More Interest in Dairy Cows

Farmers in Sherman county are showing interest in better dairy cows, according to Arvid Nelson, county agent. The Sherman County Farm Bureau, which was organized recently, is making plans for shipping in some Holsteins from Wisconsin. C. C. Duell, a farm bureau member, has said that he will take five or six cows if the shipment is made. He says he has made up his mind it would pay to milk fewer cows which give more milk than to milk more low producing cows.

Sudan Grass for Pasture

Sudan grass makes a good pasture crop in Cloud county. Carl Lofwell of Aurora is pasturing 20 head of calves on 6 acres of Sudan grass, according to Theodore F. Yost, county agent. The calves have been on the Sudan for five weeks and at present it is 4 feet high. Mr. Lofwell says the Sudan will support the calves during the whole summer. He has 85 head of sheep which he expects to pasture on 12 acres of Sudan grass.

Best Season to Cull Poultry

BY LOYAL F. PAYNE

SYSTEMATIC culling, that is the handling and examining of every bird in the flock, should start about the middle of July and continue periodically about once a month until the middle of October. Generally speaking systematic culling is not practical at other seasons of the year.

The principal object in summer culling (July and August) is to eliminate the slacker hens, while the object in September and October culling is to observe and select the best individuals to reserve as future breeders. Health, vigor, size, truthness to standard type and color, as well as heavy egg production, are points to consider in late fall culling. Some hens are able to stand the strain of high egg production and maintain good physical condition, while others "lay themselves out." The latter are of no use in the breeding pen and should be disposed of after finishing their laying season.

The culler should be able to determine three things: Present production, persistence of production, and intensity or rate of production.

Raise All Your PIGS!

Market Every One-Save 'em All

Semi-Solid Buttermilk helps pigs over the vaccination period because it keeps them strong and healthy and purifies the blood. Farmers and breeders by the thousands are marketing more hogs because their losses are less—Semi-Solid turns the trick.

Semi-Solid Buttermilk

Saves pigs—develops them into extra-weight hogs that you market earlier at higher prices. Nothing better—saves you more money. Most convenient form for feeding.

FREE 50-LB CAN

Order Today Use the Coupon

Sign your name and enclose check for \$3 and mail at once for 50-lb. can. You get credit for this amount on first barrel order—makes this trial can FREE.

Money Back Guarantee

BUTTERMILK PRODUCERS, Inc.

Room 454, 4750 Sheridan Road, Chicago

Send me the 50-lb. can of Semi-Solid Buttermilk. I will feed it, and, if not satisfied, you will return my money. When I order a barrel you are to credit me with \$3. This offer applies only to your first purchase.

Name
Address

As soon as you have read this issue of **Kansas Farmer and Mail and Breeze** pass it along to your neighbor.

Kansas Farmer and Mail and Breeze Money Saving Clubbing Offers

Kansas Farmer and Mail and Breeze.... Club 10 All for
Household.....
Capper's Weekly..... **\$1.60**
All One Year

Kansas Farmer and Mail and Breeze.... Club 11 All for
Gentlewoman.....
Household..... **\$1.15**
All One Year

Kansas Farmer and Mail and Breeze.... Club 12 All for
Woman's World.....
People's Popular Mo.. **\$1.35**
All One Year

Kansas Farmer and Mail and Breeze.... Club 13 All for
McCall's.....
Good Stories..... **\$1.50**
All One Year

Kansas Farmer and Mail and Breeze.... Club 14 All for
American Woman....
People's Home Journal **\$1.85**
All One Year

Kansas Farmer and Mail and Breeze.... Club 15 All for
McCall's.....
Household..... **\$1.50**
All One Year

Kansas Farmer and Mail and Breeze.... Club 16 All for
Capper's Weekly.....
Pathfinder (Weekly) **\$1.85**
All One Year

NOTE—If you should happen not to find your favorite magazines in these clubs, make up a special club of your own and write us for our special price. We can save you money on any combination of **Kansas Farmer and Mail and Breeze** and any two or more other magazines you want.

Kansas Farmer and Mail and Breeze, Topeka, Kansas.

Enclosed find \$..... for which please send me all the periodicals named in Club No. for a term of one year each.

Name
Address

Family Lets Machines Do It

Modern Home Equipment Performs Many Tasks that Mrs. Tucker Used to Struggle With and Gives Her Time to Cash in on Poultry

By Harlo V. Mellquist

STOVES aren't set up every fall and taken down every spring in the R. Tucker farm home near Independence any more. A hot air furnace in the basement avoids all that and supplies more uniform heat.

When Mrs. Tucker needs a bucket of water she doesn't have to manipulate the business end of a pump. Instead she opens the faucet over the sink and up from the pressure tank in the basement comes a stream of water, either hot or cold.

Except when the gas stove is lighted matches seldom are struck by any member of the family. The old coal oil lamps which once shed their dim radiance about the house, so far as it would reach, have passed on to their reward or whatever it is that a coal oil lamp gets in the hereafter. Incandescents, fed by a battery in the basement, supply eye-saving light.

An iron pipe, reaching from the house to the hog lot, has eliminated the water-carrying job that once consumed a lot of time and energy.

All Conveniences Installed

Tucker didn't wait until he built a new one to make his farm home modern. He went ahead with what he had—just an average well built house in good condition. He concluded that if he waited until he built a new house he would never have any of the conveniences and comforts he now is enjoying. With the exception of electric lights the house was modernized six years ago. An electric plant was bought a year ago. This year Mrs. Tucker hopes to get a vacuum cleaner. She already has a power washer.

These time and labor saving machines have been important factors in Mrs. Tucker's success with poultry because they have enabled her to devote more time to that work which was necessary to get the best results.

The flock of White Langshans contains 120 hens and pullets. In the average year 600 chicks are raised. This year many of them will be caponized. Mrs. Tucker sells all the cockerels and some pullets to the retail trade in Independence, dressing them on the farm and delivering as ordered. She has a market for all she can produce

at a good price almost right at home. Hay leaves, chopped grass and cow-pea hay are carefully stored up by Mrs. Tucker and fed regularly to the chickens, especially in the winter when there is little pasture or green feed of any kind.

The mash fed consists of 2 parts of bran, 2 of shorts, 1 part of tankage and 1 of ground oats if obtainable. When the hens are molting $\frac{1}{2}$ part of oilmeal is added to this mixture. The scratch ration consists of cull wheat, kafir and some cracked corn. Shelled corn is fed at night. Mrs. Tucker usually puts out the morning scratch ration at night after the hens have gone to roost so it will be waiting for them when they wake up. A half ration is fed in the morning and the rest at noon.

A little extra work early in the fall will do more than anything else to start hens laying, Mrs. Tucker says. Usually it is too hot for pullets to work hard for feed so she sees that they get all they wish to eat with a minimum of effort until cooler weather comes. Then she makes them work for it.

Some baby chicks are sold but most of them are grown for fries as Mrs. Tucker can make them weigh 2 pounds

when 8 weeks old, usually. Her pullets begin laying by the time many persons have fries, she says.

The Tucker poultry house is a two-story affair. The upstairs is used as a brooder house in the spring and pullets are kept there in the winter. It is dry and easily kept warm. A cleated board reaching to the ground forms a runway for the pullets or they can use the stairs located just inside the first floor door.

The house is 20 by 20 with 6 $\frac{1}{2}$ feet ceilings and the material in it cost \$300. It has many windows and always is well lighted. Another house 18 by 20, two stories in height, is used for hens, accommodating 75 fowls.

The brooder-pullet house is unusually well equipped. A self-feeder for hogs is used to hold the mash for the pullets. A small home-made mash hopper for baby chicks has two compartments, one for mash and the other for grit. It is made out of a small wooden box.

The compartment for small chicks has a slat floor. This prevents crowding. This slat floor is raised at regular intervals, thereby automatically training the chicks to get on the roosts at night.

The upstairs is one large room but

it is so constructed that it may be divided. From the ceiling burlap curtains reach half way to the floor. Mrs. Tucker wished to divide the room in the winter so one part could be kept warm and the other, which was used for exercise, fairly cool. So she stretched a wire from one wall to the other. On this she suspended a binder canvas, using small rings to attach it to the wire so it could be pushed back and forth. By stretching the canvas across the room under the burlap curtains she has a partition which keeps out the cold.

Homemade brooders, used by Mrs. Tucker, resemble troughs more than anything else. They are made of inch planks, 7 or 8 feet long. The sides are about a foot high and the brooders about 2 $\frac{1}{2}$ feet wide. In the center of the floor of every brooder is an opening about a foot square. This is covered with a sheet of asbestos or tin. Small lamps are set under this opening and heat the brooder.

How Brooders Are Arranged

In the ends are screened openings to admit air. The brooder is covered with canvas to hold in the heat. They are set on two boxes several inches above the floor. These brooders are kept in the upstairs apartment of the poultry house which is heated by a stove. They always are dry and warm.

An old cheese cutter, obtained from a grocery store, is used by Mrs. Tucker to chop up green feed. It saves a lot of work as the feed can be run thru it quickly.

The brooder house will accommodate 280 chicks until they are 6 weeks old and comfortably houses 125 pullets during the laying season.

Incubators are kept in the basement where a special room has been fitted up. It has a cement floor and is lighted with electricity. The poultry houses also have electric light.

Mrs. Tucker makes good money out of selling fries and in 1921 she sold \$300 worth of eggs, mostly for hatching. Her poultry business has been highly profitable, especially since 1916 when the modern conveniences put in her house so aided with her work that she had more time for her poultry.



The Tucker Poultry House is Two Stories High, The Upstairs Being Used as a Brooder Room, Accommodating 280 Chicks

Harvesting the Sucker Crop

Old Carnival Man Describes the Life of the Showman and Tells How Folks are Separated From Their Cash and Made to Like It

By An Old Showman

YOU have often attended carnivals and street shows and wondered whence they come and whither they go and where they pick up the motley crew of barkers, bally-hoo artists, and concessionaires.

I have been associated with the show business for nearly 12 years and in that time I have traveled with most of the street shows and carnival companies in the country. I have been in every state in the Union with shows and have had an opportunity to learn all of the inside workings of carnivals.

To say that they are all rotten would not be true, no more than it would be true to say that they were all pure and good. You will find crooks and knaves in every line of business, and there are lots of them in the carnival game. Perhaps we are credited with more crooks than we really have because people know so little of our business. The man who beats a game at a carnival and wins a prize is likely to think we are honest, but the man who loses thinks we are a bunch of crooks. Naturally, we are not in business for our health, and if we operated games where the chances were not in our favor, we would starve to death. We must have the advantage in order to make any profit. Even then with the chances of our games in our own favor, we gamble with the weather. I have been marooned in a town for a week and have never taken in a dollar

because of bad weather. It costs money to move a show from town to town, and we must make that money when we land.

We operate a number of different games, depending upon the towns in which we are showing. Some towns have ordinances which prohibit games of chance but permit games of skill. When we show in these towns, we run mostly to such games as dart, huckelby-buck, spot joints, swinging ball and Hit the nigger baby. Dart is a game where a weight with a sharp pin in one end is thrown at a target. If it strikes in a certain ring the thrower wins a prize. Huckelby buck is our name for the game in which baseballs are tossed into a bucket, two balls in winning a prize. Spot joints are what we call the booths where a red spot painted on the oil cloth must be covered with five tin disks. Swinging ball is simply a bowling ball suspended on a chain which is swung by the player. If he is able to miss a bowling pin on the out-swing and knock it over on the back-swing, he wins a prize. Everyone knows the nigger baby or doll-baby game.

The interpretation of the law is very peculiar in some towns that I have visited. We usually find a horror of the wheel of fortune, where we have

just a plain wheel with 30 numbers and a strip of oil cloth with corresponding numbers. Wherever the wheel stops, the number on the cloth wins. If all numbers are covered, someone wins a prize every time. It is remarkable that this is the squarest game of all, and still the one against which there is the strongest sentiment. The wheel of fortune is simply a merchandising proposition. If we charge 10 cents a spin and have 30 numbers we put up an article that would retail for about \$3 and derive our profit simply from the margin that we make on the article we give out. In this game the players have an even chance with the man who runs the game.

Tip-up is a game in which eight marbles are rolled down a board into little numbered compartments. If the totals are the same as a few of the highest and lowest numbers possible, the player wins. This is simply a variation of a game played with eight dice. The compartments number with Arabic figures from 1 to 6 just as the faces of dice. It is possible by rolling the dice to obtain a total ranging between eight and 48. We run this game so that we will pay prizes if the player rolls a total of 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, or 18 or 39, 40, 41, 42, 43, 44, 45, 46, 47, or 48. This gives the player

21 winning numbers out of 41 possible totals, and leaves us 20 numbers. On the face of it this looks like an easy game to beat, but I have run this game for weeks and never have paid out a prize. Very seldom do we ever pay out over five prizes a week. Figure out how often you can throw all aces or all sixes on a set of eight dice and you can practically eliminate the numbers eight and 48 from the list of winners. For all matters of chance to a player you can eliminate anything below 16 and everything above 42, for it won't be thrown once in a thousand times. This then leaves the player only a decent percentage of seven chances out of 41, and the way some of the boys run the game it leaves the player fewer chances than that.

We of the carnivals are just human beings. We are trying to make our living in a little different way perhaps, but so long as folks demand amusement, and will patronize carnivals, and insist upon being skinned, we will be among you. Our work is not all as easy as it seems. We are forced to undergo some inconveniences and hardships and often we finish a season with less money than we had when we started. We often must pay large license fees. We must take our chances with the law and the weather and the whims of officials. Often we must resort to other means of livelihood even while traveling with the show.

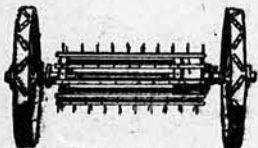
**Missing
Page(s)**

**Missing
Page(s)**

**Missing
Page(s)**

**Missing
Page(s)**

Only One Spreader Has the Beater on the Axle



THE BEATER ON THE AXLE

Write Us for This Valuable Book

"Soil Fertilizers"—a book full of valuable information on manure and other fertilizers sent free. Drop a card to John Deere, Moline, Ill., and merely ask for package M-711.

—That's the John Deere. This patented feature makes possible these distinctive advantages.

Easier on you. Box only 36 inches high—from 6 to 10 inches lower than any other. In loading 100 loads of manure it saves in energy the equivalent of that required to lift a ton of manure on the end of a pitchfork to the height of an 8 to 12-story skyscraper.

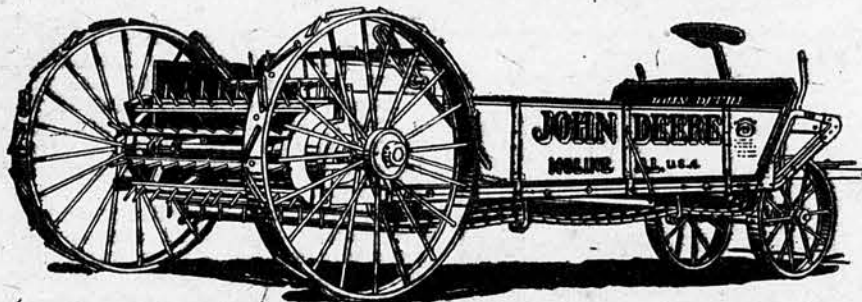
Easier on your horses. High drive wheels—4 to 8 inches higher than on other spreaders—reduce draft and increase traction. A close-fitting endless apron carries the load back to the beater on 48 smooth-running rollers. You know it is much easier to roll a ton of manure than it is to drag it.

Does a better job of spreading. The John Deere is a real spreader—not merely an unloader. You can load it flat on top, insuring even distribution its entire width. The revolving rake—self-operating—pre-

vents bunching. The one beater, which is low down, does not lift the manure high in the air—side winds do not cause drifting—an important point.

Lasts longer. The simple beater drive, mounted on the axle, operates in a dust-proof, oil-tight case—lasts for years. No clutches—no chains—only one beater—practically half the parts necessary on the ordinary spreader.

These are only a few of the many John Deere Spreader advantages. See it at your John Deere dealer's. Make comparisons. No other spreader will give you these distinctive money-making advantages.



JOHN DEERE

THE TRADE MARK OF QUALITY MADE FAMOUS BY GOOD IMPLEMENTS

Wheat 80 Cents a Bushel

We will advance you 80 cents a bushel on wheat and allow you one year in which to pick your own selling price. No storage charges. Our customers on this proposition last year were very much satisfied. Market low now but Europe will need a lot of wheat next winter. Write for particulars. Reference Metropolitan Bank, Kansas City, Mo.

J. E. WEBER & CO.,

314 Farmers Union Bldg.,
Salina, Kansas

924 Baltimore Ave.,
Kansas City, Mo.

THE AUTO-OILED AERMOTOR

A Real Self-Oiling Windmill

Oil an Aermotor once a year and it is always oiled. Every moving part is completely and fully oiled. A constant stream of oil flows on every bearing. The shafts run in oil. The double gears run in oil in a tightly enclosed gear case. Friction and wear are practically eliminated.

Any windmill which does not have the gears running in oil is only half oiled. A modern windmill, like a modern automobile, must have its gears enclosed and run in oil. Dry gears, exposed to dust, wear rapidly. Dry bearings and dry gears cause friction and loss of power. The Aermotor pumps in the lightest breeze because it is correctly designed and well oiled. To get everlasting windmill satisfaction, buy the Aermotor.

Write today for Circular.

AERMOTOR CO. Chicago, Kansas City, Des Moines, Minneapolis, Oakland



Summer Work Clothes

should be roomy, strong and washable. That's why



FITZ OVERALLS

suit men exactly. They are tailored of genuine blue indigo denim in 66 sizes. Most economical because they wear longest. Guaranteed to satisfy. Ask your dealer. Any size not in stock supplied in 24 hours by BURNHAM-MUNGER-ROOT Kansas City, Mo.

HOG CHOLERA

CAN BE PREVENTED. Avoid the dangers and losses from Hog Cholera by sending for my free book which teaches the secrets of vaccinating. Simply send name to Dr. R. E. Naylor, Secretary, American Veterinary Supply Co., 901 Gateway Station, Kansas City, Mo., for your free book and learn how you can save 50% by doing your own vaccinating with guaranteed serum.



FREE TRIAL
Cut out this ad and mail it to us, with your name and address (no money); and we will send you our FAMOUS HARMAN RAZOR by return mail, postpaid. You may use the razor for 30 days FREE; then if you like it, pay us \$1.25. If you don't like it return it. SEND NO MONEY. MORE COMPANY, Dept. 312 St. Louis, Mo.

Jayhawker's Farm Notes

By Harley Hatch

THE cool, comfortable days which followed the rains of early July provided an ideal time in which to lay by the corn crop. Corn, by the way, seldom made a better growth than in those same days. On this farm corn which on June 20 scarcely showed above the lister furrows was, at the close of the first week in July, full waist high and still growing rapidly. On one of our fields is a strip of corn of 32 rows 60 rods long which was planted about April 20. Then came continued rains and no more was planted until May 14 when the remainder of the field was finished. On July 7 there was virtually no difference in the size of this corn and I think the later planting will grow the larger plant. But the early planted rows were showing a few tassels on July 7 and with average weather conditions will probably make the best yield. Other things being equal the early planted crops nearly always yield the best here and that holds good for wheat and oats as well as corn.

Fine Prospect for Corn

The wheat shocks, which had been pretty thoroly wet by the rains of the first of July, dried rapidly when the sun came out and the south wind began to blow. Many farmers found it hard to decide which was best to do at that time, start threshing the shocked wheat or plow the corn over again. We think most of them decided to put in a few days' work in the cornfield; I know that was the decision on this farm. The wheat can wait, and we think it may be better to let it wait a short time longer, but the corn must be cultivated at once or it will lay itself by. The ground in all cornfields needs a good stirring after the 5 inches of rain that fell during the last days of June and the first week in July. One more good plowing of the corn at this time can well mean 10 more bushels to the acre as every farmer knows. In a region where both corn and wheat are raised corn too often is required to hoe its own row after the grain binders start and this usually means hard, grass-grown ground around the corn. Then it is said that corn does not do well here and that the soil and climate are better suited to wheat than corn.

Oats Average 50 Bushels

The early sown oats, now all in the shock, give promise of a very good yield. Many of those who have exam-

ined these early fields set the average yield at 50 bushels to the acre. Such oats were nearly all sown in February. Then came continued rains which prevented any further sowing until about April 12. At that time most farmers concluded that it was too late to sow and used the ground to grow corn or kafir. The reason why we, as well as most other farmers, did not sow in February was because the experience of the year before made us conclude that February sowing was too early. In 1921 the early sown oats froze out badly and the yield was cut down 50 per cent. This year we said, "We'll wait until the first week in March and then sow." As a result we did not sow until April 13 and 14. We cut those oats this week and while they made a much better crop than we thought possible three weeks ago they will not yield more than half as much as the February sown oats. After this if we have a good chance to sow oats any time after February 20 we are going to sow them; that is, if we are then in the business of raising oats.

Tractor Operates Grain Separator

So far as we know we have the little 10-20 tractor in readiness for the threshing season and the little 22-36 separator is in the same condition. Both machines were pretty thoroly gone over during the wet days which kept us from the cornfield. Despite our frequent mention of these two machines we have received many letters recently asking about them and many persons desire to know the separator size and whether the tractor is able to handle it capably. The tractor handles this separator in good condition with one man pitching to it; by running in this way we last year kept four bundle wagons busy, one man to each wagon. The straw last year was of quite heavy growth and rather coarse but even at that we managed to thresh an average of 400 bushels of wheat a day.

We never had more than six hands with this outfit, four with the bundle wagons and two at the machine. The man who runs the tractor takes care of the threshed grain and the separator man keeps all the loose grain and dropped bundles picked up around the machine. In this way we manage to thresh with but little more than the farm force and can work just as we please so far as hours are concerned and we do not have to thresh wet grain just because the machine owner is eager to get on to the next job.

Letters Fresh From the Field



FARMERS are urged to make free use of this page to discuss briefly any matter of general interest to rural communities. Address all letters intended for this purpose to John W. Wilkinson, Farm Letter Department, Kansas Farmer and Mail and Breeze, Topeka, Kan.

McNeal An Exceptional Candidate

I have been informed by a friend that my old friend, T. A. McNeal, is a candidate for the nomination for governor of Kansas. Since he and I were classmates in college, and for the greater part of our college days were roommates, I cannot resist the temptation to bear witness to the honesty, integrity and exceptional ability of my old friend. Neither Kansas nor any other state has a more competent man for the office of its chief executive. He is a man of sterling worth, and in every way worthy of the confidence and support of the voters of Kansas. Columbus, O. J. H. Snyder.

Weeks Out of Touch With Times

I am pleased to know Kansas has a man in the Senate with courage enough to express himself on men and matters affecting public interests. Senator Capper's rebuke of Secretary Weeks is most commendable. He

might also include Secretary Mellon as both are back numbers and entirely out of sympathy with present-day conditions.

Let Senator Capper keep up his good work, also his present and past policy on many other matters for the good of the Nation that he has tackled. Keep a potential farm bloc before Congress and let them know the West is a part of the United States. H. L. Resing, Wichita, Kan.

Farm Products Need Protection

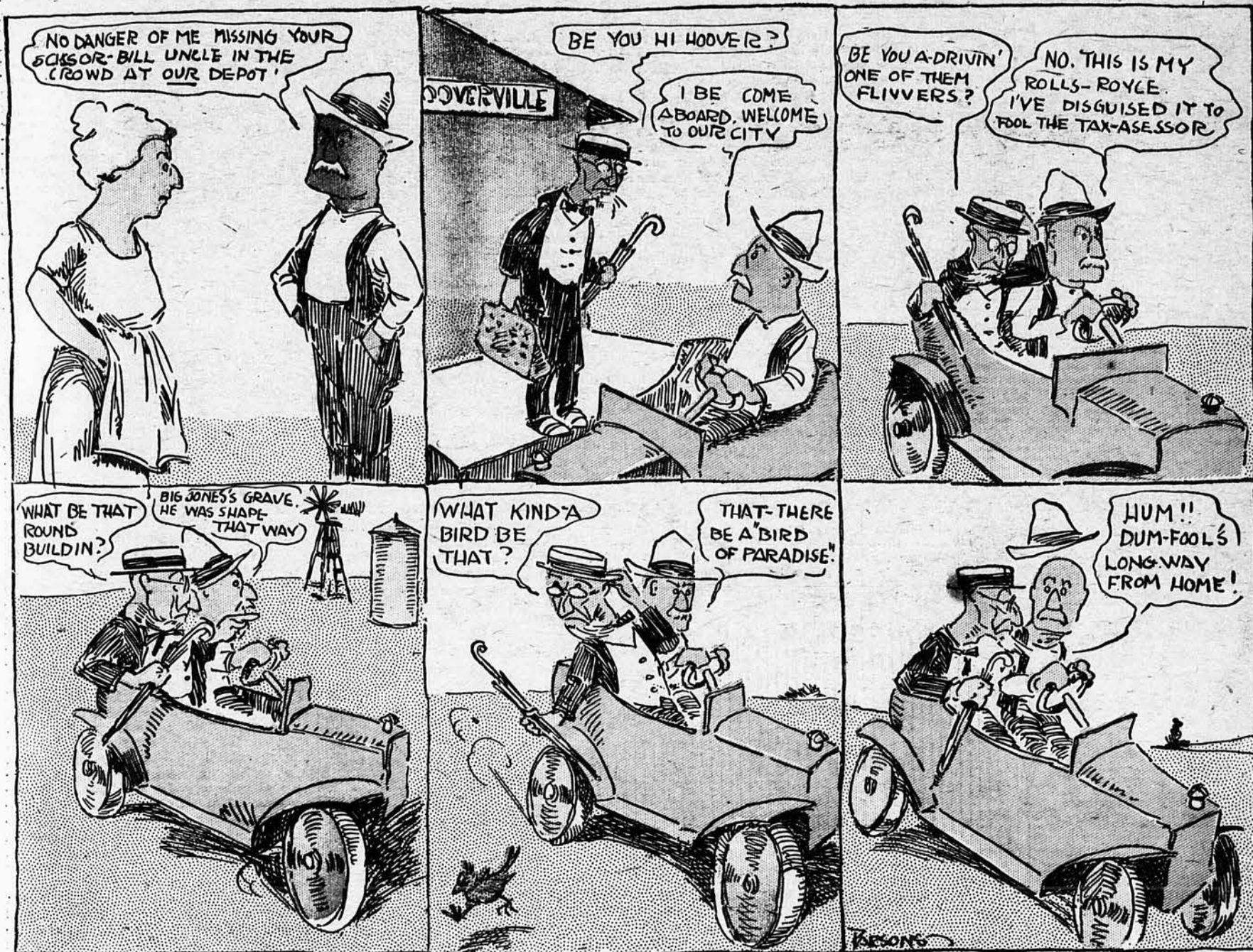
It seems an impossibility to the lay mind to draw a tariff bill that would deal justly with a diversity of interests such as we possess, and have at the same time a due regard for the tenets of reciprocity. I believe sentiment favors a tariff to protect for a while the great agricultural fraternity of America, and the more numerous consumers.

The boys are leaving the farm to be tilled by aged sires, and are themselves seeking employment offering reasonable returns. The price of products of the farm is not consistent with the price placed upon articles of manufacture. Longton, Kan. I. E. Bone.

It pays to cultivate friends as well as the right kinds of crops.

The Adventures of the Hoovers

Mrs. Hoover's Uncle, Abner Grabbitt, from Way Down East, Does Not Seem Properly Impressed with the Great and Boundless Middle West



The Indian Drum

By WILLIAM MacHARG
and EDWIN BALMER

A Story of the Adventures of Alan Conrad of Blue Rapids, Kan., on the Great Lakes

(Copyright by Edwin Balmer)

THE DOOR blew from the woman's hand, and snow, swept up from the drifts of the slope, swirled into the room; the draft blew the flame of the lamp in a smoky streak up the glass chimney and snuffed it out. The moonlight painted a rectangle on the floor; the moonlight gave a green, shimmering world without. Hurried spots of cloud shuttled away the moon for moments, casting shadows which swept raggedly up the slope from the shore. The woman seized the door and, tugging it about against the gale, she closed it but did not try to relight the lamp.

The sound of the Drum was continuing, the beats a few seconds apart. The opening of the door outside had seemed to Constance to make the beats come louder and more distinct; but the closing of the door did not muffle them again. "Twelve," Constance counted to herself. The beats had seemed to be quite measured and regular at first; but now Constance knew that this was only roughly true; they beat rather in rhythm than at regular intervals. Two came close together and there was a longer wait before the next; then three sounded before the measure—a wild, leaping rhythm. She recalled having heard that the strangeness of Indian music to civilized ears was its time; the drums beat and rattles sounded in a different time from the song which they accompanied; there were even, in some dances, three different times contending for supremacy. Now this seemed

reproduced in the strange, irregular sounding of the Drum; she could not count with certainty those beats. "Twenty—twenty-one—twenty-two!" Constance caught breath and waited for the next beat; the time of the interval between the measures of the rhythm passed, and still only the whistle of the wind and the undertone of water sounded. The Drum had beaten its roll and, for the moment, was done. "Now it begins again," the woman whispered. "Always it waits and then it begins over."

Constance let go her breath; the next beat then would not mean another death. Twenty-two, had been her count, as nearly as she could count at all; the reckoning agreed with what the woman had heard. Two had died, then, since the Drum last had beat, when its roll was twenty. Two more than before; that meant five were left! Yet Constance, while she was appreciating this, strained forward, staring at Henry; she could not be certain, in the flickering shadows of the cabin, of what she was seeing in him; still less, in the sudden stoppage of heart and breathing that it brought, could she find coherent answer to its meaning. But still it turned her weak, then spurred her with a vague and terrible impulse.

The Indian woman lifted the lamp chimney waveringly and scratched a match and, with unsteady hands, lighted the wick; Constance caught up her woolen hood from the table and put it on. Her action seemed to call Henry to himself.

"What are you going to do?" he demanded.

"I'm going out."

He moved between her and the door. "Not alone, you're not!" His heavy voice had a deep tone of menace in it; he seemed to consider and decide something about her. "There's a farmhouse about a mile back; I'm going to take you over there and leave you with those people."

"I will not go there."

He swore. "I'll carry you then!" She shrank back from him as he lurched toward her with hands outstretched to seize her; he followed her, and she avoided him again; if his guilt and terror had given her mental ascendancy over him, his physical strength could still force her to his will and, realizing the impossibility of evading him or overcoming him, she stopped.

"Not that!" she cried. "Don't touch me!"

"Come with me then!" he commanded; and he went to the door and laid

his snowshoes on the snow and stepped into them, stooping and tightening the straps; he stood by while she put on hers. He did not attempt again to put hands upon her as they moved away from the little cabin toward the woods back of the clearing; but went ahead, breaking the trail for her with his snowshoes. He moved forward slowly; he could travel, if he had wished, three feet to every two that she could cover, but he seemed not wishing for speed but rather for delay. They reached the trees; the hemlock and pine, black and swaying, shifted their shadows on the moonlit snow; bare maples and beeches, bent by the gale, creaked and cracked; now the hemlock was heavier. The wind which wailed among the branches of the maples, hissed loudly in the needles of the hemlocks; snow swept from the slopes and whirled and drove about them, and she sucked it in with her breath. All thru the wood were noises; a moaning came from a dark copse of pine and hemlock to their right, rose and died away; a wail followed—a whining, whimpering wail—so like the crying of a child that it startled her. Shadows seemed to detach themselves, as the trees swayed, to tumble from the boughs and scurry over the snow; they hid, as one looked at them, then darted on and hid behind the tree trunks.

Henry was barely moving; now he slowed still more. A deep, dull resonance was booming above the wood; it boomed again and ran into a rhythm.

You'll Like

Na-Nay

EXCELLO

RUBBERLESS

SUSPENDERS

Year's wear guaranteed. No rubber. Phosphor Bronze Springs give the stretch. Comfortable. Easy on buttons. If your dealer hasn't them, send direct, giving dealer's name. 50c & 75c pair.

Na-Nay Stretch Suspenders Co., Detroit, Mich.

Make a FORDSON into a 3-PLOW CRAWLER TRACTOR

Demonstrating Agents Wanted

Write today for full information

Bates Machine and Tractor Company

1221 Benton St., POLY, ILLINOIS, U. S. A.

Stack Your Hay The Easiest Way

The Jayhawk

Stackers and Sweep Rakes

Harvesting hay the Jayhawk way means time, men and money saved. Jayhawk Stackers and Sweep Rakes make it easy to harvest and save every hay crop. Pays for itself the first year. Fully guaranteed. Sold direct at manufacturers price. Write today for free catalog and price list.

F. WYATT MFG. CO., 902 N. 5th ST., SALINA, KANS.

No longer was it above; at least it was not only above; it was all about them—here, there, to right and to left, before, behind—the booming of the Drum. Doom was the substance of that sound of the Drum beating the roll of the dead. Could there be abiding in the wood a consciousness which counted that roll? Constance fought the mad feeling that it brought. The sound must have some natural cause, she repeated to herself—waves washing in some strange conformation of the ice caves on the shore, wind reverberating within some great hollow tree trunk as within the pipe of an organ. But Henry was not denying the Drum!

He had stopped in front of her, half turned her way; his body swayed and bent to the booming of the Drum, as his swollen lips counted its soundings. She could see him plainly in the moonlight, yet she drew nearer to him as she followed his count. "Twenty-one," he counted—"Twenty-two!" The Drum was still going on. "Twenty-four—twenty-five—twenty-six!" Would he count another?

Down the Ravine

He did not; and her pulses, which had halted, leaped with relief; and thru her comprehension rushed. It was thus she had seen him counting in the cabin, but so vaguely that she had not been certain of it, but only able to suspect. Then the Drum had stopped short of twenty-six, but he had not stopped counting because of that; he had made the sounds twenty-six, when she and the woman had made them twenty-two; now he had reckoned them twenty-six, tho the Drum, as she separated the sound from other noises, still went on!

He moved on again, descending the steep side of a little ravine, and she followed. One of his snowshoes caught in

a protruding root and, instead of slowing to free it with care, he pulled it violently out, and she heard the dry, seasoned wood crack. He looked down, swore; saw that the wood was not broken thru and went on; but as he reached the bottom of the slope, she leaped downward from a little height behind him and crashed down upon his trailing snowshoe just behind the heel. The rending snap of the wood came beneath her feet. Had she broken thru his shoe or snapped her own? She sprang back, as he cried out and swung in an attempt to grasp her; he lunged to follow her, and she ran a few steps away and stopped. At his next step, his foot entangled in the mesh of the broken snowshoe, and he stooped, cursing, to strip it off and hurl it from him; then he tore off the one from the other foot, and threw it away, and lurched after her again; but now he sank above his knees and floundered in the snow. She stood for a moment while the half-mad, half-drunken figure struggled toward her along the side of the ravine; then she ran to where the tree trunks hid her from him, but where she could look out from the shadow and see him. He gained the top of the slope and turned in the direction she had gone; assured then, apparently, that she had fled in fear of him, he started back more swiftly toward the beach. She followed, keeping out of sight among the trees.

To twenty-six, he had counted—to twenty-six, each time! That told that he knew one was living among those who had been upon the ferry! The Drum—it was not easy to count with exactness those wild, irregularly leaping sounds; one might make of them almost what one wished—or feared! And if, in his terror here, Henry made the count twenty-six, it was because he knew—he knew that one was living!

What one? It could only be one of two to dismay him so; there had been only two on the ferry whose rescue he had feared; only two who, living, he would have let lie upon this beach which he had chosen and set aside for his patrol, while he waited for him to die!

She forced herself on, unsparingly, as she saw Henry gain the shore and as, believing himself alone, he hurried northward. She went with him, paralleling his course among the trees. On the windswept ridges of the ice, where there was little snow, he could travel for long stretches faster than she; she struggled to keep even with him, her lungs seared by the cold air as she gasped for breath. But she could not rest; she could not let herself be exhausted. Merciless minute after minute she raced him thus. A dark shape—a figure lay stretched upon the ice ahead! Beyond and still farther out, something which seemed the fragments of a lifeboat tossed up and down where the waves thundered and gleamed at the edge of the floe.

Henry's pace quickened; hers quickened desperately too. She left the shelter of the trees and scrambled down the steep pitch of the bluff, shouting, crying aloud. Henry turned about and saw her; he halted, and she passed him with a rush and got between him and the form upon the ice, before she turned and faced him.

Defeat—defeat of whatever frightful purpose he had had—was his now that she was there to witness what he might do; and in his realization of that, he burst out in oaths against her. He advanced; she stood, confronting—he swayed slightly in his walk and swung past her and away; he went past those things on the beach and kept on along the ice hummocks toward the north.

It Was Alan!

She ran to the huddled figure of the man in mackinaw and cap; his face was hidden partly by the position in which he lay and partly by the drifting snow; but, before she swept the snow away and turned him to her, she knew that he was Alan.

She cried to him and, when he did not answer, she shook him to get him awake; but she could not rouse him. Praying in wild whispers to herself, she opened his jacket and felt within his clothes; he was warm—at least he was not frozen within! No; and there seemed some stir of his heart! She tried to lift him, to carry him; then to drag him. But she could not; he fell from her arms into the snow again, and she sat down, pulling him upon her lap and clasping him to her.

She must have aid, she must get him to some house, she must take him out of the terrible cold; but dared she leave him? Might Henry return, if she went away? She arose and looked about. Far up the shore she saw his figure rising and falling with his flight over the rough ice. A sound came to her too, the low, deep reverberation of the Drum beating once more along the shore and in the woods and out upon the lake; and it seemed to her that Henry's figure, in the stumbling steps of his flight, was keeping time to the wild rhythm of that sound. And she stooped to Alan and covered him with her coat, before leaving him; for she feared no longer Henry's return.

"So this isn't your house, Judah?"

"No, Alan; this is an Indian's house, but it is not mine. It is Adam Enos's house. He and his wife went somewhere else when you needed this."

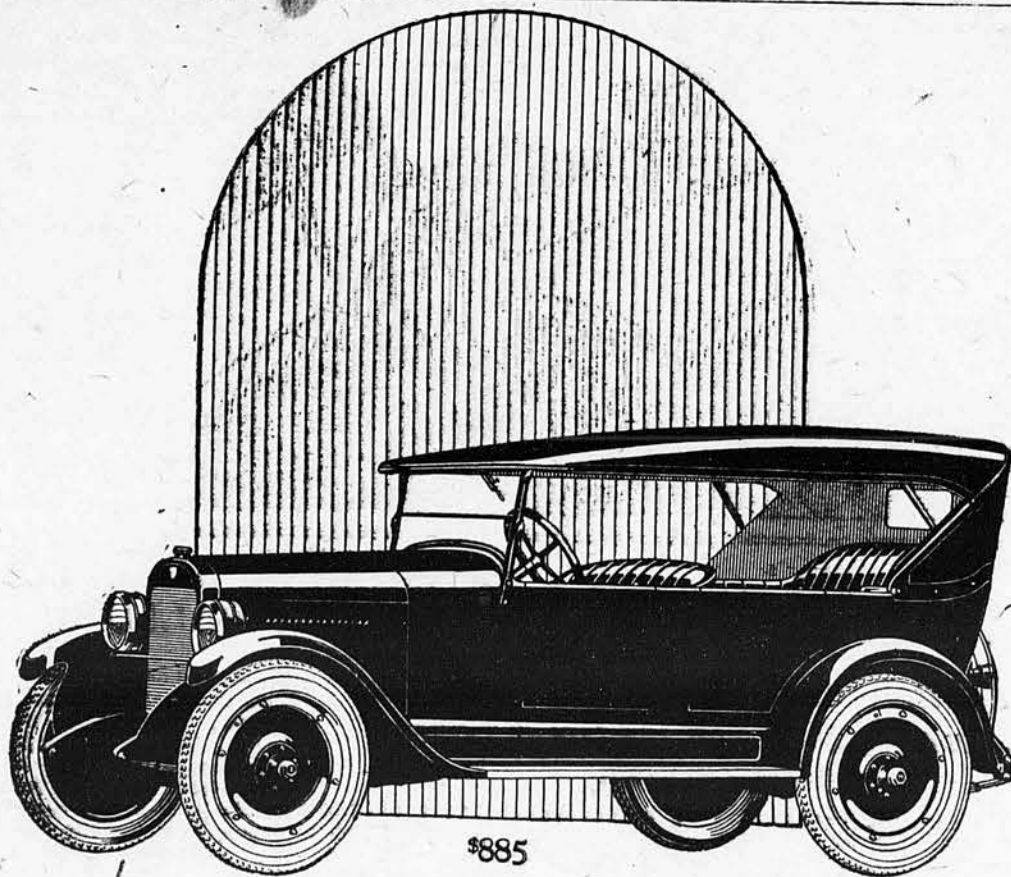
"He helped to bring me here then?"

"No, Alan. They were alone here—she and Adam's wife. When she found you, they brought you here—more than a mile along the beach. Two women!"

Help in Time of Need

Alan choked as he put down the little porcupine quill box which had started this line of inquiry. Whatever questions he had asked of Judah or of Sherrill these last few days had brought him very quickly back to her. Moved by some intuitive certainty regarding Spearman, she had come north; she had not thought of peril to herself; she had struggled alone across dangerous ice in storm—a girl brought up as she had been! She had found him—Alan—with life almost extinct upon the beach; she and the Indian woman, Wassaquam had just said, had brought him along the shore. How had they managed that, he wondered; they had somehow got him to this house which, in his ignorance of exactly where he was upon the mainland, he had thought

(Continued on Page 12)



Light enough to give long mileage on gas and tires; yet so scientifically engineered that it rides a rough road with the steady ease and comfort of a much heavier car.

Cord tires, non-skid front and rear; disc steel wheels, demountable at rim and at hub; drum type lamps; Alemite lubrication; motor driven electric horn; unusually long springs; new type water-tight windshield



MAXWELL MOTOR CORPORATION, DETROIT, MICHIGAN
MAXWELL MOTOR CO., OF CANADA, LTD. WINDSOR, ONT.

The Good

MAXWELL



Middle West Plains News

BY EARLE H. WHITMAN

COLORADO'S commercial lettuce acreage is estimated by the U. S. Department of Agriculture to be 6,500 acres, of which 3,000 acres is on the western slope and 3,500 acres on the eastern. Among the five commercial districts of the eastern slope, the Buena Vista district has 1,500 acres, the Westcliff district 800 acres, the Hardscrabble district 400 acres, the Divide district 300 acres, and the San Luis district 500 acres.

A few cars of lettuce moved by the middle of July, but heavy shipments are not expected before the middle of August. The chief shipping points for mountain head lettuce on the eastern slope will be Buena Vista, Westcliff, Salida and Divide.

State Fair Plans More Poultry Space

More space for poultry exhibits will be provided at the Kansas State Fair at Hutchinson, September 16 to 22. The poultry display always is among the largest of the exhibits, and has so outgrown the poultry building that an addition containing 3,300 square feet is being built. E. C. Branch of Lee's Summit, Mo., and Jas. A. Taylor of Royal Oak, Mich., nationally known poultry judges, have been obtained for the state fair this year.

Hog Barn Holds 90 Carloads

C. M. Gregory of Chase county, Kansas, believes he has the largest hay barn in the state. It has a capacity of 90 carloads. An alfalfa field of 500 acres surrounds the barn, which sometimes holds the entire crop. The building is 150 feet long, 50 feet wide and 33 feet high. A big loading chute is built on one end.

Colorado Cow-Testing Results

A report from the cow tester of the Arkansas Valley Association, Colorado, shows that the four highest herds, totaling 72 cows, made an average

profit over feed cost for one month of \$9.51 a cow. This means a total profit in the four herds of \$684.72. The high cow in the association for the month was a registered Holstein, owned by the Model Dairy Farm at Holly, with a production of 1,069 pounds of milk and 74.9 pounds of butterfat. Profit from this cow after subtracting cost of feed was \$23.85 for the month. The high herd was that of Harry Heath of Lamar.

Large Crop Acreage in Colorado

The acreage under cultivation in Colorado this year is the largest in the history of the state, being slightly more than 6 million acres. The acreage devoted to the major crops grown in the state is greater in nearly every case this year than last, and large increases are shown in acreages of such crops as potatoes, beans, cantaloupes and certain market garden vegetables. The acreage to potatoes, for instance, reports of county assessors indicate, is the largest ever grown in the state. Complete reports, probably will show 140,000 acres planted, an increase of approximately 50 per cent as compared with 1921.

Smut Treatment Pays Well

Paul Becker of Morris county, Kansas, says it pays to treat all small grain and sorghum seed for smut before planting. Last year Mr. Becker's oats were full of smut, but before sowing this spring he gave the seed the formaldehyde treatment, and reports no trace of smut in this year's crop. He declares 50 cents worth of material and 3 hours of work are sufficient for treating all the seed wheat the average farmer will sow. He figures that in a bad smut year he not only will keep heads from turning to smut, thus decreasing the yield, but will be able to sell his wheat for 10 cents more a bushel than if it contained smut.

The Spread of Radio Service

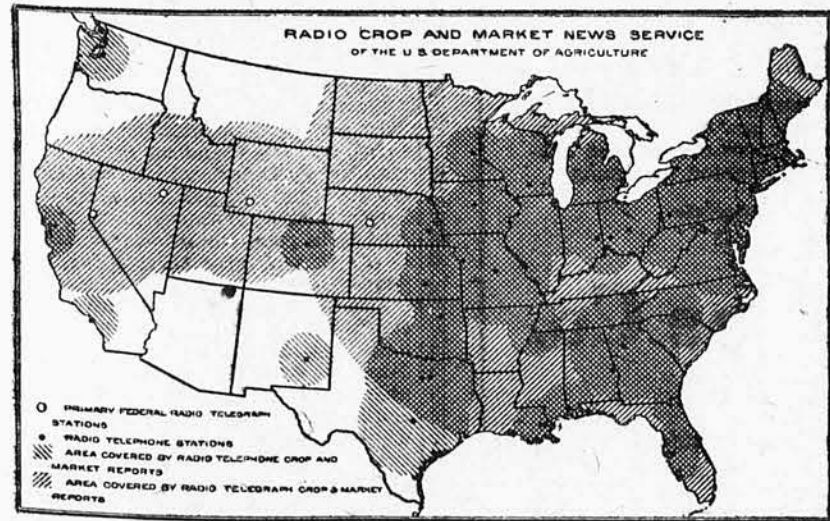
BY FRANK A. MECKEL

NATIONAL crop and market reports are now broadcasted by radio from 45 government and private broadcasting stations in the United States. The area covered by these stations is shown in the accompanying map.

More than 35 of these stations broadcast by radio telephone, the others using the wireless telegraph. The radio telephone service reaches more people no doubt because no technical knowledge of codes is necessary for one to "listen in."

The Radio Market News Service of the United States Department of Agriculture makes an effort to get vital agricultural news to farm folks as quickly as possible after the close of markets, and to gather this news and market information, the United States Department of Agriculture has 73 branch offices in 46 large market centers, 16 of which are directly connected with the Washington office and with one another by 2,550 miles of leased telegraph wires. The result is a complete day-to-day picture of national agricultural conditions, and thru the media of the telegraph, the press and the radio, this market news is received by about 15 million persons every day.

The first national agricultural news bulletin broadcasted by radio anywhere in the world was sent out from the Washington wireless station of the Bureau of Standards on December 15, 1920. This was to determine the practicability of utilizing radio for disseminating market reports. Since that time, less than two years ago, the radio broadcasting has become a Nation-wide institution with distribution as shown on the map. That's the way it has grown, and it has shown this growth because its utility and practicability have been proved by every possible actual test.



Timely Buying Insures Profits

The preparation of soil at the proper time means larger crops and more money. The Wallis Tractor is one of proven power and a dependable profit producer, in many cases paying for itself in a season.

The best tractor buy on the market today is the

WALLIS

-more acres per hour

Your Profits Depend Upon Proven Power

The Wallis Tractor furnishes dependable farm power in its simplest form. The Wallis, as any owner will tell you, proves itself correct in daily service from both an engineering and a farming standpoint. With the Wallis you save time, money and labor. You have the proven power to insure your profits. You can farm right at the right time in the right way.

The value of a tractor to you must be based upon its operating cost, length of service, cost of upkeep, daily performance, its design and the company behind it. We ask you to weigh all of these important elements. Then you will find out how completely the Wallis satisfies; how thoroughly engineered it is; how successfully it meets your problems on the farm.

See your nearest Wallis dealer immediately. Your neighbors are having splendid success with the Wallis Tractor and genuine J. I. Case Implements. Why not enjoy the same success? Why hesitate when profits are at stake?

J. I. CASE PLOW WORKS COMPANY
RACINE, WISCONSIN

NOTICE: We want the public to know that the

WALLIS TRACTOR

is made by the J. I. CASE PLOW WORKS COMPANY of Racine, Wisconsin, and is NOT the product of any other company with "J. I. CASE" as part of its corporate name.

NOTICE: The Supreme Court of Wisconsin has decided that our plows are the

"ORIGINAL CASE PLOWS"

and that we are entitled to the exclusive use of the word CASE on all plows and tillage implements, and in all catalogs and advertisements of same. Notice by any other concern regarding CASE plows is given because of this Supreme Court order, that our rights, the rights of the dealer and the rights of the public may be protected.

TARX
SOLIDIFIED DISINFECTANT

A Better Dip in a Handler, Cheaper Form
Comes in cube-marked cakes instead of cans. Solid like soap. You simply cut off and drop one of the handy Tarx cubes in a gallon of water and you have 1 gallon of the best dipping and disinfecting solution you ever used.

Each Cube Makes 1 Gallon
No guess work—no waste—no bother—no leakage—no breakage. You pay nothing for bottles, barrels or cans. No freight on factory water which you can just as well add at home. Easily shipped anywhere. Packs in small spaces. Keeps indefinitely.

Order Direct from This Ad
Send only \$2.50 (check or M. O.) for 6-lb. package. Makes 150 gallons. Shipped prepaid. If you are not pleased, your money will be refunded. You take no risk. Send today.

TARX CHEMICAL CO. (S)
523 Peoples Gas Bldg., Chicago

A 40 Lb. PACKAGE MAKES 1200 GALLONS

GET THE TOP PRICE FOR YOUR GRAIN

Stored Grain Will Pay Big Interest—
A lesser small profit results from selling grain on the low threshing time market. Someone will store your grain for a higher market if you don't.

Thresh Directly Into A Columbian—
Your grain will "cure" better than if "sweated in the stack" and improperly stored. The scientific ventilating system does it. None is wasted, destroyed by rats, fire or weather. Shrinkage is less than 1 per cent as compared to 10 per cent when stored in the open—a saving that will pay for a Columbian Metal Grain Bin.

Delivered Prices Reduced—Columbian delivered prices have been greatly reduced. The improved triple joint, vertically corrugated Columbian construction makes the strongest bin available. Write for beautiful 14-color bulletin No. 561 including Government letter urging farm storage in metal bins and ask for prices delivered at your station. Sold by all good merchants.

COLUMBIAN STEEL TANK COMPANY
1607 West 12th St. — Kansas City, Mo.

Send for this Book of premiums and prizes



To win at the "International" will mean much to you. It will give your entries more of a reputation than at ordinary fairs. Send for this booklet today describing the Show and giving a list of the premiums and prizes.

The International Wheat Show is the great grain and farm products show of the country. It will be held Sept. 25 to Oct. 7 in the mammoth Forum and Exposition Building at Wichita, Kan. Largest indoor show of its kind in the world.

HORACE ENSIGN, Manager
WICHITA, KANSAS

Windmill Prices Reduced

Write today for Free Catalog and reduced prices on CURRIE Windmills, Feed Grinders, etc. Big Bargains in all styles and sizes we manufacture.

CURRIE WINDMILL CO.
GRINDER 7th & Holliday, Topeka, Kansas. \$22.

FORD OWNERS



Learn About Wonderful New Power Maker. Practically eliminates spark lever—stops misfiring—adds power and speed—saves gas—is waterproof. This wonderful new ignition system is now in use on several of America's high-grade motor cars. Price is low. Ask for booklet and learn about FREE TRIAL OFFER.

American Bosch Mag. Corp. Box 2001 Springfield, Mass.

Tanks at Factory Prices



Get ready for summer now. Tank watering is safest. Corrugated "Armco" iron riveted tanks, finest on the market, at new low factory prices, freight prepaid. Write today for Catalog A.

Topeka Tank Co., 400 E. 15th, Topeka, Kan.

The Indian Drum

(Continued from Page 10)

must be Wassaquam's; she had gone to get help—his throat closed up, and his eyes filled as he thought of this.

In the week during which he had been cared for here, Alan had not seen Constance; but there had been a peculiar and exciting alteration in Sherrill's manner toward him, he had felt; it was something more than merely liking for him that Sherrill had showed, and Sherrill had spoken of her to him as Constance, not, as he had called her always before, "Miss Sherrill" or "my daughter." Alan had had dreams which had seemed impossible of fulfillment, of dedicating his life and all that he could make of it to her; now Sherrill's manner had brought to him something like awe, as of something quite incredible.

When he had believed that disgrace was his—disgrace because he was Benjamin Corvet's son—he had hidden, or

tried to hide, his feeling toward her; he knew now that he was not Corvet's son; Spearman had shot his father, Corvet had said. But he could not be certain yet who his father was or what revelation regarding himself might now be given. Could he dare to betray that he was thinking of Constance as—as he could not keep from thinking? He dared not without daring to dream that Sherrill's manner meant that she could care for him; and that he could not presume. What she had undergone for him—her venture alone up the beach and that dreadful contest which had taken place between her and Spearman—must remain circumstances which he had learned but from which he could not yet take conclusions.

He turned to the Indian.

"Has anything more been heard of Spearman, Judah?"

"Only this, Alan; he crossed the Straits the next day upon the ferry there. In Mackinaw City he bought liquor at a bar and took it with him; he asked there about trains into the northwest. He has gone, leaving all he had. What else could he do?"

Alan crossed the little cabin and

looked out the window over the snow-covered slope, where the bright sun was shining. It was very still without; there was no motion at all in the pines toward the ice-bound shore; and the shadow of the wood smoke rising from the cabin chimney made almost a straight line across the snow. Snow had covered any tracks that there had been upon the beach where those who had been in the boat with him had been found dead. He had known that this must be; he had believed them beyond aid when he had tried for the shore to summon help for them and for himself. The other boat, which had carried survivors of the wreck, blown farther to the south, had been able to gain the shore of North Fox Island; and as these men had not been so long exposed before they were brought to shelter four men lived. Sherrill had told him their names; they were the mate, the assistant engineer, a deckhand and Father Perron, the priest who had been a passenger but who had stayed with the crew till the last. Benjamin Corvet had perished in the wreckage of the cars.

A Rapid Recovery

As Alan went back to his chair, the Indian watched him and seemed not displeased.

"You feel good now, Alan?" Wassaquam asked.

"Almost like myself, Judah."

"That is right then. It was thought you would be like that today." He looked at the long shadows and at the height of the early morning sun, estimating the time of day. "A sled is coming soon now."

"We're going to leave here, Judah?"

"Yes, Alan."

Was he going to see her then? Excitement stirred him, and he turned to Wassaquam to ask that; but suddenly he hesitated and did not inquire.

Wassaquam brought the mackinaw and cap which Alan had worn on Number 25; he took from the bed the new blankets which had been furnished by Sherrill. They waited until a farmer appeared driving a team hitched to a low, wide-runner sled. The Indian settled Alan on the sled, and they drove off.

The farmer looked frequently at Alan with curious interest; the sun shone down, dazzling, and felt almost

(Continued on Page 17)

His Head Hikes Wheat Yields

(Continued from Page 3)

Both hard and soft wheat are grown by Meek, Kanred and Harvest Queen. He is somewhat partial to soft wheat but he is inclined to think that Kanred will have the advantage in yield as it is showing up favorably. All the wheat is cut with a binder. It is left in the shock two or three weeks, then threshed and immediately sold. Meek follows the system of holding corn and selling wheat. He never held a crop but once.

The hog house is designed for summer comfort. At one end the concrete floor was sunk 8 inches below the level of the rest of the house. Water is piped into this compartment and it always is kept partly filled. During the summer this wallow is extremely popular. It can be kept relatively clean and the hogs are unable to root the bottom out of it. Meek says the pool has made it easier to get and hold gains during hot weather.

Near the hog house is a large concrete feeding floor, on which the self feeder is set, and a concrete trough.

The farm contains 480 acres of which 250 acres are in cultivation. Wheat is grown on 110 acres on the average, corn on 75, alfalfa on 50 and feed crops on the remainder.

Two striking evidences of the economy of good machinery if properly cared for, are found on this farm. The manure spreader, which has been in use for 10 years, has hauled more than 3,000 loads of manure, Meek says. It still is in good condition and Meek believes it will give service for several years more.

His binder also is 10 years old. Recently Meek figured up what the binder had cost and the expense of operating it, with the result that he was able to show that the binder charge against the wheat that had gone over its canvas was 1/2 cent a bushel.

Meek keeps his machinery under cover when not in use. He handles it just as carefully as he does his land. That is why both still are in good condition after a decade of constant use.

Make Your Surplus Funds Earn 8 Per Cent Net

Any surplus funds not needed in farm operations should be put to work, and they will earn 8% net if invested in the Cumulative Preferred Stock now being offered by this company. This is a safe and conservative investment in a home institution which has demonstrated its stability and earning capacity.

Invest in a Successful, Growing Kansas Manufacturing Enterprise

The Scott Weighing Machine Company was first organized in 1910. In 1913 it sold its plant and patents to a large Boston concern and paid its stockholders two and a fifth times the original investment. The one product it manufactured is now used nationally. The company was reorganized in 1917 and has made a continuous, steady growth. It makes a complete line of computing scales and an automatic sugar weighing machine. Its present output of 2,400 scales a year is inadequate to meet the demand, and expansion is necessary.

The Men Behind the Company

W. H. DAVIS, President: Retired wholesale grocer interested in various business enterprises.

IVAN DIBBLE, Vice president: Manager of the Dibble Grocery Company, one of the largest retail grocery stores in the state.

CHAS. D. SCOTT, Secretary, Treasurer and Manager: In active charge of the company.

S. E. COBB, Director: President of the Bank of Topeka.

T. L. PATTISON, Director: Head of one of Topeka's largest book and stationery stores.

N. M. FOLTZ, Director: Shawnee County farmer and stockman.

W. W. Davis, Director: Salesman for the state's largest wholesale grocer company.

W. B. FISHER, Director: Manager of large Shawnee County stock farm.

H. T. WHITAKER, Director: Former banker now actively interested in management of the company.

Cumulative Preferred Stock \$100 Shares

Our issue of \$100,000 of cumulative preferred stock will give the company a capitalization of \$350,000 with \$2.50 in physical assets for every dollar of preferred stock. Earnings are now \$6,000 a month. Dividends are payable quarterly in January, April, July and October. These shares are offered subject to prior sale in units of \$100 and are callable after 5 years at \$110 with accrued dividends.

Start Your Money to Earning 8% Net Today, or Write at Once for Complete Information, Including Our Partial Payment Plan.

The Scott Weighing Machine Co. Topeka, Kansas

References: The Bank of Topeka, The Prudential Trust Company of Topeka. Remittances may be made direct to this trust company.

Capper Pig Club News

Many Picnics Planned for August Pep Meetings

BY RAYMOND H. GILKESON
Assistant Club Manager

MITCHELL county has invited Cloud county over to spend the day some time during August, and from all appearances it's going to be a big event for Capper Pig Club members of those counties. Lyon county boys are going to get some other county to meet with them at Emporia. The Morris county teams are planning a big meeting on the Kansas State Agricultural College campus, and an inspection of the livestock and farming of the college. From Neosho county we hear hints of a big picnic, so you see, considering all these plans for the best meetings of the year, the club managers figure there will be some change in the pep standing when reports for August are turned in.

August seems to be the favored month for carrying out plans for big meetings, because the big rush is over, and folks feel as if it's time to take a breathing spell. We cannot control the weather, but let's not expect it to rain.

Quiet But Doing Things

Anderson county has been working quietly so far thru the contest, but nevertheless has been doing things. Paul Van Horn of that county writes: "While we haven't been heard from much, we are here to tell every other Kansas county that we are in the race. Anderson is holding regular pep meetings every month, with every member present, and we are going to win something, too." Paul adds that his six Spotted Polands are doing fine and are helping him along the road to success. He says he is mighty proud of his pigs and is confident they will win some prize.

When Jackson Members Meet

When talking of county meetings we must take time to consider what Jackson did last time for entertainment. Elmer Knepper says: "Jackson county pig club boys had their last meeting at Elmer Knepper's, at Netawaka. Not all the boys could get there, but counting club members and others present we had 25. We had a good dinner with all the strawberry shortcake we could eat. After dinner we went to town and chose up sides and played baseball. We had enough for five on a side. Next meeting we are expecting a much larger attendance."

Will Show Pigs at Fair

No amount of rain seems to have any effect on the spirit of Republic county boys. Read what Warren Segerhammar has to say: "We are all planning to have our pigs at the Northwestern Kansas Free Fair at Belleville, and are going to have one part of the exhibition shed for our hogs. We are going to take pains to have our exhibits in condition to take some prizes, too."

Pigs Growing Like Weeds

"My pigs certainly are fine and are growing like weeds in a back lot. I enjoy club work more than ever this year. We are having lots more fun, and we really seem to be getting somewhere in our work. Perhaps you will notice my feed bill is not so high this month. Well, you see my pasture has been excellent, and since I had such good pasture I didn't have to feed nearly so much grain and shorts. The pigs seem to be doing better every day." That explains very clearly just how Walter Hensley of Morris county stands in the club work. What would you say is the important thing he has discovered? You guessed it—pasture, of course.

Be Prepared When Called

"Please excuse my writing and the short letter," writes Warren Segerhammar, Republic county leader, "I am leaving in the morning to take care of my uncle's farm." That call found Warren ready to take a step toward leadership in managing a farm. Warren regrets, as all of us do, that he was called because of the misfor-

tune of others, but he is glad he was ready to help in a time of need. His aunt was taken to the hospital, and of course, his uncle went with her. Perhaps other club members are going to have such a hurry-up call some time, and the question then will be, are you ready? Each day's work done to the best of your ability will help you to be ready for other tasks as they present themselves. Today's work is the foundation on which you will build tomorrow, and all the days of your experience in raising purebred stock will fit you for a successful future.

Last But Not Least

The last sow to farrow in club No. 2 of Morris county brought nine, healthy, squealing pigs. Hubert Hei-

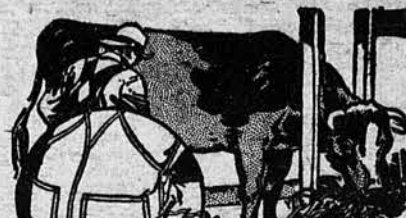
gele is the proud owner, and he says: "All the pigs are still alive, and there isn't one single runt in the bunch. I grind and soak all the feed for my sow, and I find she likes it better. I feed it to her in the form of slop." In this case we may safely say, "Last but not least."

We'll All Meet Together

Already plans are being made for the annual club meeting at the Kansas Free Fair at Topeka in September, and Capper Club folks surely have something to look forward to. Think of it, a big, state-wide pep meeting, in which every member of every county Capper Pig and Poultry club is invited to take part. Old members know what a happy time to expect in the three-day meeting, and new members will have a chance to find out for themselves. Talk over plans for attending this big pep meeting, and let's have every team represented as near-ly 100 per cent strong as possible.

When a man makes a fool of himself he thinks someone else did it.

And yet the horse isn't as scarce on city streets as horse sense.



Strength and Comfort

KEY Overalls "fill the bill" for all rough and ready work. Lots of comfort and long wear in every pair. Guaranteed to satisfy. If your dealer is out of your size, write—

THE McKEY MFG. CO., Makers
Kansas City, Mo.

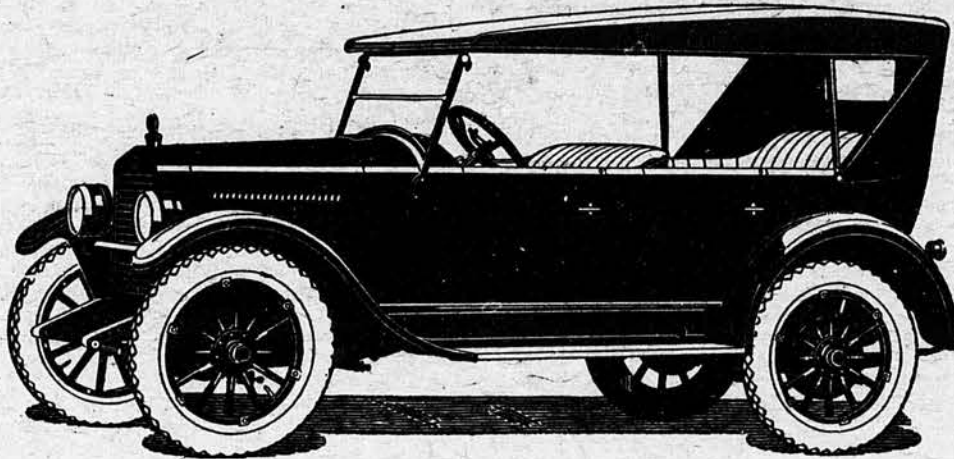
KEY OVERALLS

WORK PANTS

QUALITY Chicks and Eggs

20,000 PURE BRED BREEDERS, 12 varieties. Best laying strains. Incubate 10,000 eggs daily. Catalog free. Prewar prices. Free live delivery. Missouri Poultry Farms, Columbia, Missouri

\$1095



A New ESSEX

A Roomier Open Car—A Greater Chassis

You can have no appreciation of what this price buys until you examine and drive it.

To all that made Essex such a wonderful value in the past are added refinements and comforts never before offered in a car of its price class. Roomier seating, wider doors and greater riding ease, contribute something new in personal comfort.

The Result of Three Years' Experience

Back of the new Essex is all we learned in building 70,000 earlier Essex cars. Finer precision standards have resulted and Essex

smoothness is even more pronounced. You will instantly note its greater beauty. Its care and attention are easier, cleaner, more convenient.

It will reveal a charm you never suspected in any except the large costly cars.

It Improves in Service

Old owners tell you of a car so enduringly designed and built that its performance improves for thousands of miles.

But today's Essex combines advantages no earlier owner knows. Go see, and ride in it. It is the best Essex ever built, and at the lowest price.

Wider Seats

Wider Doors

Lubricated with an oil can—no messy grease cups.

Thief-Proof Lock, reduces insurance cost 15% to 20%.

Touring, \$1095

Cabriolet, \$1195

Coach, \$1295

Freight and Tax Extra

ESSEX MOTORS, Detroit, Michigan

Our Kansas Farm Homes

Mrs. Ida Migliario
—EDITOR—

Farm Home News

BY MRS. DORA L. THOMPSON

Those who possess a glass rolling pin, however plain, have an excellent tool for the making of pastry shells or flaky pie crusts. It is said expert cooks in making pastry shells or puff paste chill a marble slab on which to roll the dough and fill a glass rolling pin with ice water as a roller.

Some who lack an ordinary glass rolling pin have substituted a long, round bodied bottle, filled it with ice water and rolled the pie crust.

Biscuit Dough Kept on Ice

In a biscuit makers' contest recently, the prize went to a woman who mixed her biscuit dough in the morning and set the pans of cut-out biscuits on ice until noon when she was ready to bake them. Those who like to prepare a meat in advance and have hot biscuits for dinner may like to try the plan.

We have heard of others who keep out a part of the bread dough, place it on ice and take out enough to make a pan of biscuits when light. We have not tried the scheme.

A Child's Wagon May Be Useful

In a small town where groceries are not delivered we visited a farm woman who took her groceries home, a half mile distant, in a boy's coaster wagon. A grocer in another town employs a school boy during vacation to deliver sacks of flour and heavy articles with a coaster wagon. On the cement walks or hard surfaced roads, the wagon is easily pulled. It is found even more serviceable than the grocer's big truck in that it may be drawn to the kitchen door.

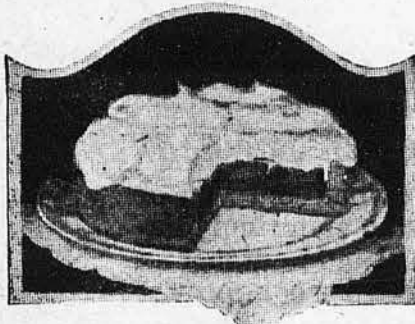
Most farms have similar carts but

Some "Three in One" Utensils

Utensils that perform more than one duty save space in the utensil cupboard, time in washing dishes and they put pennies in the savings bank.

There is the shell cake pan for instance. A set of six of these aluminum pans provides an excellent means for serving a cake shell that can be filled with fruit, as a short cake, gelatin, custard—plain or topped with whipped cream—marshmallow whip or meringue.

The center of these pans is raised to a considerable degree. After the pan is oiled and a thin coating of flour dusted over it the cake batter is poured evenly around the circle. When the



cake is baked the pan is turned upside-down and left in that position for one minute. It is then lifted leaving a shell.

An egg beater that will lend itself to whipping cream, beating salad dressing, soups and cocoa, or for combining liquids saves the space of several small pieces of cutlery.

Then there is the spatula knife that can be used for turning griddle cakes, potato patties, sausage cakes, and so on. It will be found serviceable in spreading frosting and meringue as well as in loosening pies and cakes from the tins in which they are baked.

Egg poaching cups make excellent molds for gelatin or containers in which to steam individual servings of puddings. A frying basket lessens the

we doubt if many farm women make as good use of them as they might. Big pails of chicken feed are carried from granaries or bins and held during the feeding. A wagon would enable the feeder to haul the pail of feed and a can of sour milk at the same time.

On wash days, baskets filled with wet clothes are heavy loads for women to carry. A wagon might very well carry the load. By raising the basket to a convenient height, it would lessen the work of hanging the clothes on the line.

Garden supplies may well be hauled in the wagon, sorted, cleaned and waste hauled away.

Hog Waterer For Chickens

One of the biggest step savers we have found lately called for no purchase of a new tool. It was merely a transfer of a hog waterer from a distant stock yard to the chicken's range. This happens to be a barrel with a double cup, float regulated waterer attached. The children carry a few pails of water each day. We mix some permanganate of potash in it and the supply of drinking water is assured.

When we depended upon basins or chick fountains for a number of half grown chicks, it meant a trip to the chicken yard every hour.

Add a feed hopper to such drinking arrangements, and chickens with farm range require little care. We have sent to our county agent for the mash recommended for growing chicks and especially for pullet development. The following is the dry mash mixture given out by the Kansas State Agricultural College for such purposes: Bran, 30 pounds; shorts, 30 pounds; fine corn chop, 25 pounds; meat scrap, 10 pounds; bonemeal, 4 pounds. If there is a constant supply of sour milk, the meat meal may be lessened or omitted.

work of removing doughnuts from hot fat or it holds the French fried potatoes or fritters while they cook in deep fat. The silver placed into it and dipped into a pan of hot water for rinsing is handled without burning the hands.

The food grinder and the kitchen scissors each come in for their share of uses.

Blackberry Jelly

Thoroughly crush with a wooden masher about 2½ quarts or 3½ pounds of berries. Place fruit in jelly bag and squeeze out juice. Measure 6½ level cups of sugar and 3 cups of juice into a large saucepan, stir and bring to a boil. At once, add 1 scant cup of commercial pectin, stirring constantly. Continue to stir and bring again to a hard boil over a hot fire for ½ minute, stirring continually. Remove from fire, let stand 1 minute, skim and pour quickly.

Features of Annual Pageant

Visitors to Chicago's second annual International Pageant of Progress, which takes place July 29 to August 14 on the 5 million dollar municipal pier extending 3,000 feet into the waters of Lake Michigan, will witness the greatest aeronautical congress in the history of America.

Thousands of dollars in prizes have been offered to attract champions of every line of athletic endeavor. Races between the fastest power boats in the world, airplane races, swimming and diving contests for men and women—these are a few of the features of the 1922 pageant.

This year the industrial section of the pageant is to be emphasized. Three and one-half miles of exhibits from every line of industry in the United States and 30 foreign countries will attract thousands of buyers. It will be possible for them to transact more business in these days, make better selections and price comparisons, than

they could in three weeks in any other place.

In the health section will be found 25 mechanical devices, each of which will demonstrate some lesson in proper living and preservation of health. Live models will show the importance of proper ventilation, heating and lighting of workshops, schools, theaters and homes.

The importance of milk pasteurization and water purification will be portrayed by moving devices and the means of safeguarding one's life against all communicable diseases shown. The benefits of sunshine, fresh air and frequent bathing will be emphasized and charts will teach children the proper diet, exercise and care of their bodies.

Mock Fried Oysters

From Cuba direct to you comes this recipe for mock fried oysters. These are especially palatable during the warm weather.

2 cups cold boiled rice 1 can sardines
Tomato catsup

Make a paste by blending the sardines and the rice together. Form in flat cakes and brown in a little hot fat. Serve with tomato catsup.

Tomato Bag is a Novel Gift

Among the little gifts that were given to me when I started to keep house last month was a rather large cheesecloth bag with a heading and drawstring at the top.

The friend who made this little present explained that it was a tomato bag. She assured me that she knew I would find it useful in preparing the queen of vegetables. And I have.

When I wish to peel tomatoes, I place them in this bag and dip it in scalding water. After they have stood a few seconds, I plunge them in cold water and then hang them over a pan to drip. By the time I am ready to peel them, the skins slip off easily.

Sometimes the tomatoes are peeled early in the morning before the weather is warm; this is always done in threshing time. The peeled vegetable is returned to my bag which is then placed in the refrigerator. This tomato bag is also a help in blanching vegetables for canning.

Mrs. Carrie Martin.

Women's Service Corner

Send all questions to the Women's Service Editor, Kansas Farmer and Mail and Breeze, Topeka, Kan. Give name and address. No names will be printed.

Soap Solution for Laundry

In making a soap solution for laundry purposes what proportions should one use?—Mrs. C. B.

Use 1 pound of soap to 3 quarts of water. Shave the soap, put it into a stew pan and pour the water over it. Place on the fire and let it heat slowly until the soap is dissolved. This should require about 1 hour. Bottle and set aside for future use.

Warm Air Makes Cellar Damp

How can one keep a cellar dry and cool in summer?—Mrs. Y. T.

By closing the windows during the day and opening them at night. The outdoor air during the day is warmer than that of the cellar. This warm, moist air enters the cooler atmosphere of the cellar, and the moisture condenses and rests on all surfaces making the cellar damp and warm. By admitting the night air the cellar will be kept dry, cool and warm.

Cleaning Plumbing Pipes

Is it possible to keep plumbing pipes clean?—Mrs. S. A.

Yes. At least once a month, rinse all pipes with a hot solution of washing soda. Kitchen sinks should receive this care every week. Washing soda is not injurious to the metal pipes. To

Playroom Pays Well

A little kindergarten and play room is making an ex-school teacher friend a neat sum of pin money. She has youngsters of her own and cannot go



away to earn money. If a busy mother wants to take off a few hours in the afternoon to go to a club or to town, the little folks can be left in the play nursery for a small sum.

Story books, playthings, charts, games and many things children love are to be found there. This mother has bought a few books on teaching very young children thru play, and has enough pupils to earn about \$30 a month.

Coryel Co., Texas.

G. B.

Another Hot Lunch Argument

When the school in our district opens this fall we are hoping for the beginning also of the hot lunch. Every effort is being directed toward that end this summer. Such a step is imperative, for even while we were giving to the starving children of the Near East a condition almost as alarming existed in our own little country school house.

It was not until the last day of school picnic that our teacher discovered that one of the pupils brought an empty lunch pail to school every day and withdrew at noon from her playmates so that they might not know of it.

Now it is not the plan of this teacher to expose this child's pitiful secret. Rather, she suggests starting the hot lunch in school. This will be given out every day to the pupils, and whether a child contributes a dime, a nickel, a penny or even nothing no one but the teacher will know. Mrs. K. D. V.

prepare the solution pour 3 gallons of boiling water over 1 pint of washing soda. Set over the fire and let remain until the soda is dissolved. Pour this boiling hot into the pipes. Use 2 quarts for the sink and pour the remainder equally divided, among bowls, bathtubs, closets and laundry tubs. Heat the pipes first by pouring warm water thru them.

Teakettle Should Be Washed

Will you tell me how to keep the inside of a teakettle from becoming coated?—Mrs. D. S.

The best thing to do is to empty, wash and dry the teakettle at night just as you wash and dry any utensil. Even clean water will leave a deposit which in time will affect the metal.

Freshening Chiffon

Please tell me how to freshen a piece of chiffon.—J. A.

Chiffon can be freshened by rubbing it with powdered magnesia. Rub as firmly as possible without injuring the material. Brush magnesia out with a soft brush. Repeat if necessary.

Purposes of Furniture

We have just finished building a new house and I want to know how much furniture to buy.—Mrs. P. E.

The furnishings of a house should be within one's means and in harmony with the structure. Those two guide posts coupled with the fact that every article in the room should have a reason for being there ought to help you purchase just what you need and no more.

Cottons for Late Summer

Two Practicable Cover-alls

BY MRS. HELEN LEE CRAIG



1378—Women's Dress. A good-looking style that would be pretty in linen, ratine or jersey shows a collar that follows the Peter Pan outline. Sizes 36, 38, 40 and 42 inches bust measure.

1447—Women's Dress. The combination of two materials is becoming. Sizes 36, 38, 40 and 42 inches bust measure.

1467—Women's and Misses' Dress. Combining the most popular summer style with the most popular summer materials is what is done with this jumper dress. Sizes 16 years and 36, 38 and 40 inches bust measure.

1468—Women's and Misses' Dress. Simply made with a charming result can be truly said of this style. Sizes 16 years and 36, 38, 40 and 42 inches bust measure.

1372—Child's Creeping Apron. For

the young child just learning to creep a better garment than this would be difficult to find. Sizes 6 months, 1 year and 18 months.

1444—Women's Apron. This apron style knows no waning of popularity. Sizes 36, 40 and 44 inches bust measure.

1440—Child's Dress. A cool-looking dress is shown for the tiny girl. Sizes 2, 4 and 6 years.

1440—Women's House Dress. The popular bib idea and a perky sash make this apron attractive. Sizes 36, 40 and 44 inches bust measure.

These patterns may be ordered from the Pattern Department Kansas Farmer and Mail and Breeze, Topeka, Kan. Price 15 cents each. Give size and number of patterns desired.—Adv.

A New Kind of Jam

When tomatoes are plentiful, they may be made into a delicious and economical jam. This is a recipe which I have used in my household many years.

Wipe 8 pounds of ripe tomatoes, pour scalding water over them and allow to stand until the skins are loosened. Then skin and cut them across and take out as many seeds as can be removed without crushing the fruit.

Place the seeds and juice in an enameled or aluminum pan with 1 quart of water. Boil 40 minutes and strain thru fine cloth. Add 12 pounds of sugar to the liquid and boil 5 minutes. Then add the vegetable and boil until it jellies; the time varies somewhat with the different kinds of tomatoes.

Mrs. Sallie Greene.

Takes a Vacation at Home

Since I have been living on a farm I have come to the conclusion that it is absolutely necessary for the busy farm mother to take some sort of a vacation every year if she expects to retain her physical health and mental vigor.

Of course it is very desirable if this vacation can be made the occasion for taking a trip to some place of interest. However, the condition of the family finances, or other important details of farm life, may make this impossible, at least it did in my case last year.

I was determined to have my outing, however, so late in July after the harvesting and threshing were done, I engaged a trustworthy woman to look after the children and do the house work for a couple of weeks. Then I straightway became a guest in my own home.

I took up my abode in the spare guest room, and wore my best clothes every day. The children entered into the spirit of the game, and treated me exactly as they would have treated a real visitor.

If I wished to sleep late in the morning I did so, and then if the spirit moved me, I took a stroll in the fields and woods before breakfast. During the year I had laid aside a number of books and magazines that I wished to read but never had found the time. These were now brought out and enjoyed at my leisure.

In the long afternoons I made some calls upon my neighbors, or else took a nap, or did a bit of fancywork out on the shady veranda. I even had time to get acquainted with my children, and many a frolic and game we enjoyed together. I also made the discovery that they were really very interesting children when viewed with the impartial eye of a "guest."

Was Refreshing Experience

In short, my vacation consisted of two weeks crowded to overflowing with doing just the things that I liked to do. I exerted all my will power to keep from thinking about my house keeping duties, and not once did I do such a homely task as the darning of a stocking or the mending of the children's clothes.

When my "outing" was over I felt refreshed in body and mind, and ready to go back to the routine of my house work with renewed vigor.

After all what is a vacation? I think the best definition I can offer is to say that it is a complete change of occupation. If this definition is a true one, and I believe it is, then I had a real vacation and best of all it is one that any farm woman may enjoy with very little expense.

Cass Co., Nebraska.

Chair Props Up Patient

Often the housewife finds, in nursing a sick one, the problem of "propping up" the patient. A kitchen chair placed back down at the head of the bed supplies a support for the pillow against which the patient may lean.



Here's a cool and cheery helper for your mealtime needs

POST TOASTIES come all ready to eat—crisp, flavory and appetizing—saving the work of food-preparation on hot summer days.

There's nothing more to do—just fill the bowl, add cream or good milk, and a feast of joy is ready. No waste—for Post Toasties are good to the last flake. There are many servings from a package.

You'll find a welcome for Post Toasties from every member of your family—and a great saving of time and trouble. Be sure to ask for Post Toasties and not just "corn flakes."

Post Toasties are made of choice American corn, and they carry a message of corn's food-goodness around the world.

At the grocer's—back to pre-war prices. Be sure to order Post Toasties by name, and get the yellow and red package.

Always in good taste—

Post Toasties

—improved corn flakes

Made by Postum Cereal Co., Inc., Battle Creek, Mich.

More Silage at Less Cost

YOUR silo will hold 10 to 30 tons more silage—worth \$50 to \$200—if you "own your own" PAPEC. (see catalog, page 5.) You will cut your filling cost, too.

The Papec is simple—fewer parts, less trouble, less cost, longer life, no chains, one-piece frame. With 6 fans it "throws and blows" to ANY height at 600 R. P. M. guaranteed. 3 h.p. up. Fordson easily operates 16" size. Papec Simplicity, plus quantity output, makes your dollar buy far more in a Papec.

Write today for free catalog. It will make your decision easier.

The Powerful
PAPEC
Ensilage Cutter



PAPEC MACHINE COMPANY
124 Main St., Shortsville, N. Y.
80 Distributing Houses insure prompt service from Papec dealers

THROWS
AND
BLOWS

\$24.95 American CREAM SEPARATOR

On trial. Easy running, easily cleaned. Skims warm or cold milk. Different from picture which shows larger capacity machines. Get our plan of easy MONTHLY PAYMENTS and handsome free catalog. Whether dairy is large or small, write today.

AMERICAN SEPARATOR CO.
Box 7092
Bainbridge, N. Y.

LEARN TELEGRAPHY
Students Earn Board while Learning
A practical school with railroad wires. Owned and operated by A. T. & S. F. Ry. Write for catalogue.
Santa Fe Telegraph School
Desk F Topeka, Kan.

Girls prepare for BUSINESS

"Gem City" trained girls become well paid stenographers, typists, court reporters, secretaries, etc.
GEM CITY Business College
Established 1870, QUINCY, ILL.
provides the training that enables young men and women to gain success.
FREE 64-page illustrated Year Book
Address the president—
D. L. MUSSELMAN, QUINCY, ILL.

"Dolly, I'm glad you got Kellogg's Corn Flakes and fruit for supper. I'm so fagged out with the heat that Kellogg's is the only food that would appeal to my appetite. It digests so easily and yet I know it is nourishing! Guess I'll have another helping. Those Kellogg's certainly are delicious."



Eat sensibly during the warm weather!
Kellogg's CORN FLAKES
are nourishing-refreshing-delicious

It's a long step for health and riddance of summer drowsiness and that sluggish feeling if you'll all stop eating so much heavy, greasy foods and let Kellogg's delicious Corn Flakes do your health a good turn! With cold milk and luscious fresh fruit, Kellogg's are extra delightful—so crisp, and appetizing.

Kellogg's Corn Flakes are nourishing and supply all the summer energy you need; yet, they digest easily and actually rest the stomach! On such a diet you'll feel so much better; your mind will be keener and you'll accomplish a lot more work—and help yourself keep cool and snappy and cheerful!



Be certain to buy Kellogg's Corn Flakes in the RED and GREEN package bearing the signature of W. K. Kellogg, originator of Corn Flakes. None are genuine without it.

Also makers of KELLOGG'S KRUMBLES and KELLOGG'S BRAN, cooked and krumbled

AMERICAN FLINT TILE SILOS
40% OFF
Prompt Shipments
Hollow Building Tile
Climax Ensilage Cutters
COATES MFG. CO.
2047 Main St., Kansas City, Mo.

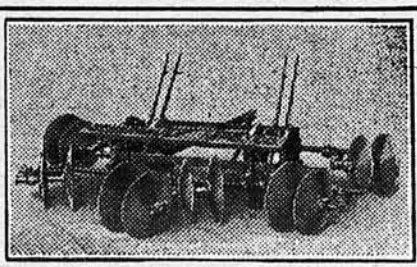
Self Cleaning Filter
Makes Cistern Water safe. Filth removed from one rain cannot remain in filter to contaminate water of following rains. Easily installed. Satisfaction guaranteed. Booklet on request.
COX FILTER COMPANY
Parsons, Kansas

Book On DOG DISEASES
And How to Feed
Mailed free to any address by the Author.
H. Clay Glover Co., Inc.
129 W. 24th St., New York

When writing our advertisers mention Kansas Farmer and Mail and Breeze.

Stop! Look! and—READ!

The ignorant man thinks he can beat the train to the crossing; he doesn't believe the warning signs. He also thinks he knows all there is to know about the things he buys; he doesn't read the advertisements. The wise man believes in railroad crossing signs and he reads the advertisements because he learns much from them and buys better and more wisely.



3—Bust 3 Ridges—3
Speed up your work with the Schermuly 2 or 3-row Tractor Ridge Buster—a wheel machine! Quickly changed for 2 or 3-row work. We also make a 2-row horse wheel ridge buster, and the original Ellinwood disc sled. Write today for particulars. Agents wanted.
THE SCHERMULY MFG. CO.,
812 N. Wichita Wichita, Kansas

Genuine EVERREADY CAPPER
Caps any size bottle. Made of malleable iron with hwd. base, same as illustration.
BOTTLE CAPS
Double lacquered, 35c gross. Parcel Post 5c.
White Porcelain
Stoppers with red rubber washers, 35c dz. Parcel Post 5c.
NATIONAL CAN CO.
1828 B.C. Ridge Ave., Philadelphia, Pa.

Purebred!
Trying to beat the averages broke many a man in the days of gambling houses. It is breaking many farmers today. The averages in stock raising are that the purebred beats the scrub. Why try to "buck the game" with purebreds at present prices? You'll always find good values in our Live-stock Advertising.
Swat the Scrubs

For Our Young Readers

How Jerry and Foxy Became Friends

BY COBB X. SHINN

"I HATE his looks," said Foxy, the little smooth-coated terrier, "and if they think I am going to make friends with that shaggy-coated dog, they are going to get fooled!"
For several weeks the little fox terrier would not make friends with Jerry, the new Airedale terrier, but the day came when Foxy was glad to call Jerry his friend. It all happened in a few minutes. Foxy was sitting by the front

and asked, "Where did your father and mother come from?"
"My father and mother were born in America, but away back, my grandparents came from England," answered Jerry and went on, "Don't you know that about 60 years ago Airedales were unknown, unkempt, shaggy-coated dogs, living around Yorkshire, England? They were part otter hound and part black and tan wire-haired terriers, but after several years of careful breeding and training the world now has the present breed of dogs called Airedales."
"A good Airedale should weigh from



Happy Birthday to You!

"HAPPY Birthday to You!" This is the greeting thousands of boys and girls gave Senator Capper at his birthday party, July 14. "Thousands" is a pretty big number to entertain at a party, isn't it? But Mr. Capper has many, many, young friends, and he wished them all to come to his party. And a royal good time they had, too!
The party was held at Garfield Park in Topeka and the whole day was given over to the kiddies for merry-go-round rides, roller skating, flights "over-the-top"—just everything an amusement park offers—to say nothing of the ice cream and lemonade and so on!
"Wish Mr. Capper'd have more'n one birthday a year!" was the general summing up of the happy day, according to the young folks.

gate one afternoon when a tramp tried to come into the yard. Foxy was up and at him in a minute but a heavy stick fell across his head. Foxy let out a yelp before he knew what he was doing.
Foxy was not in the habit of yelping, for he was a game little dog. Jerry heard his sharp cry and came flying to see what the trouble was. When the tramp saw Jerry he ran for a tree and that was all that saved him from the steel-trap jaws of the dog.
As Foxy joined the chase he thought, "It's about time I made friends with Jerry, for when a tramp runs like that from a dog, that dog is a friend worth having."

A Friend Worth Having

Later as the dogs trotted back to the house together Foxy said, "I am glad you came to help me, Old Top, but I don't understand what made that tramp run the minute he saw you."
"I guess he must have met up with an Airedale some place before," replied Jerry.
"Have Airedales the reputation for being quarrelsome?" inquired Foxy.
"Not necessarily; neither do they make friends too quickly."
By that time the dogs were back on the shady side of the house so they stretched out for a nap, side by side, but Foxy did not feel like sleeping. He wanted to ask Jerry more about himself. At last he could keep quiet no longer so he edged a little nearer Jerry

35 to 40 pounds and stand about 22 inches high; he should have a tan or sandy color, except for the saddle and neck which should be black or grizzled gray. His back must be straight and also his legs, and most of all, he must be thoughtful, companionable and dependable and afraid of nothing that walks or crawls on this earth. All Airedales are great lovers of water."
Foxy was fascinated and wanted to hear more but Jerry said, "Now I think I have told you everything that is worth knowing about Airedales," and with that he stretched out to take his nap, and in another minute Foxy and Jerry were lying side by side in the shade, fast asleep.

Something for Everybody

I live on a 480-acre farm. I have a twin sister and a brother. I have a baby sister too. I am 9 years old and in the second grade. I have a big black and white cat which I call Tom. We like the Adventures of the Hoovers. My papa likes Passing Comment. I like the children's letters. Mamma likes the story. My brother John cuts out the pictures. So we all get something from the Kansas Farmer and Mail and Breeze.
Cunningham, Kan. Marie Weber.

Good schools are the greatest defense of the Nation.

What Kind of Dogs are They?



When you have found the names of the eight dogs in this puzzle send your answers to the Puzzle Editor, the Kansas Farmer and Mail and Breeze, Topeka, Kan. There will be postcards for the first 10 boys or girls answering correctly.

Health in the Family

High Blood Pressure is Often Misunderstood

BY DR. CHARLES H. LERRIGO

JUST what is meant by blood pressure? writes a patient. "How serious is high blood pressure? Is it a symptom or a disease?"

It is only in the last decade that the testing of blood pressure has become a matter of routine examination by physicians in general practice. To patients it is still a matter of mystery. I believe I am not going too far if I say that it is also a matter of mystery to a great many doctors.

When a doctor tells you that you have high blood pressure he has not told you anything very definite. He might almost as well have contented himself by saying "You are ill." It is worth while to know whether you have high blood pressure, but the knowledge of the bare fact does not go very far towards getting you well.

High blood pressure is not a disease in itself, it is merely a symptom. It is possible that some good may come from general treatment of the symptom, but not very likely.

So the thing for you to say when the doctor tells you that you have high blood pressure is: "Very well, doctor. Why is it high? What causes it?"

The doctor's examination is not complete until he has found the fault in your system that is responsible for the blood pressure going beyond its bounds. Perhaps, it is a disease of the kidneys, a disease of the heart or blood vessels, a nervous disease, a bad habit, or it may simply be an indication of too much work or worry. Let the doctor continue with his investigations until he has found why you have high blood pressure and then let him tell you how you may correct your habits of life so as to find relief.

Do not expect impossible things of the doctor. There are conditions under which high blood pressure is incurable. There are also cases in which it is actually desirable; cases in which but for the increased pressure the circulation would be insufficient. There will also be cases in which the doctor's best efforts will not enable him to find a good and sufficient cause for the high pressure and all that he can do is to treat the case experimentally. But in most cases of high blood pressure the doctor has not completed his job until he has found why, and ordered plans for relief.

Diet for Young Person

I am a boy 14 years old, 5 feet, 4 inches tall and weigh 108 pounds. I feel tired all the time and my face is covered with pimples. Please tell me what to do to gain flesh and at the same time get rid of the pimples.

P. C. M.

You are growing rather fast but are about 10 per cent under weight. In such a condition a boy should get at least 10 hours sleep every night and eat a very nourishing diet. Try to drink a quart of milk every day, also eat fruit, fresh vegetables and whole wheat bread. Avoid any food that does not digest easily, especially fried foods and those that are rich, greasy, or highly seasoned. Be careful to keep the skin of the whole body clean and active. If the pimples show pus, open them with a boiled needle and then apply a little grain alcohol. Be sure to maintain a regular bowel habit every day.

Pain in His Side

I am 33 years old. I had the "flu" last winter. Since then I have had a pain in my side. The doctor said the "flu" had settled in my kidneys.

M. M. M.

Your description is too indefinite. "Pain in the side" may be due to any one of a dozen different ailments. It is only rarely that such a pain means disease of the kidneys.

Discontinuing the Use of Corsets

What ill effects can result from discarding a corset after wearing one daily for years?

Mrs. S.

There may be none. It depends entirely upon how much exercise the woman has been in the habit of taking and whether she has merely worn the corset in such a way as to shape the figure or has permitted her muscles to depend upon it for support. In the latter case the sudden removal of the accustomed support might easily cause

a sagging of certain pelvic organs and if the abdomen were soft and pendulous there might be a general prolapse of the abdominal contents. Women with firm, vigorous muscles would not be likely to feel any ill effects whatever.

Nervous Spells

I am a woman 46 years old. I have nervous spasms in the thighs and small of the back. Are these nervous spells likely to disappear after a time or will they get worse?

S. Y.

At your age it is very probable that such symptoms are due to the onset of the "change of life." The best course is to take matters as easy as possible and pay no more attention to such symptoms than you can help. When nervous symptoms at the climacteric are very marked they are sometimes relieved by the administration of ovarian extract.

The Indian Drum

(Continued from Page 12)

warm in the still air. Wassaquam, with regard for the frostbite from which Alan had been suffering, bundled up the blankets around him; but Alan put them down reassuringly. They traveled south along the shore,

rounded into Little Traverse Bay, and the houses of Harbor Point appeared among their pines. Alan could see plainly that these were snow-weighted and boarded up without sign of occupation; but he saw that the Sherrill house was open; smoke rose from the chimney, and the windows winked with the reflection of a red blaze within. He was so sure that this was their destination that he started to throw off the robes.

"Nobody there now," Wassaquam indicated the house. "At Petoskey; we go on there."

The sled proceeded across the edge of the bay to the little city; even before leaving the bay ice, Alan saw Constance and her father; they were walking at the water front near to the railway station and they came out on the ice as they recognized the occupants of the sled.

(TO BE CONTINUED)

Our Best Three Offers

One old subscriber and one new subscriber, if sent together, can get The Kansas Farmer and Mail and Breeze one year for \$1.50. A club of three yearly subscriptions, if sent together, all for \$2; or one three-year subscription, \$2.—Advertisement.

Don't despair if the meat seems tough when you put it on to cook. A small amount of vinegar or lemon juice softens the fibers and makes them more tender.

Affording things is largely a matter of the way you look at it. The farm that can afford modern tools and equipment can afford running water in the house.

BUTLER
Galvanized Steel
Grain Bins
Pay For Themselves
In GRAIN SAVED.

Starve Rats

RAT, FIRE, WEATHER PROOF
Thresh Directly into BUTLER BINS: Save Time and Grain. Best Material and Workmanship. Full capacity level full. **LAST FOR YEARS.**

Reduced Prices! Buy of your dealer or write us. Get our Special Club Proposition. Circular Free.
BUTLER MANUFACTURING CO.
1222 Grand Ave., Kansas City, Mo.

Kills Flies

Ants, roaches, fleas, mosquitoes, bed-bugs, potato bugs, cabbage worms and many others. Not a poison. Loaded metal guns 15c. Refill from bulk Hofstra packages 30c, 60c, \$1.20. At Grocers and Druggists.
HOFSTRA MFG CO.
Tulsa, Okla.

HOFSTRA
NON-POISONOUS INSECTICIDE



Care for your Teeth

In regulating an incubator, running a tractor, or cleaning dairy utensils, great care must be taken to do the work in the right way.

It's just as important to clean the teeth the right way. A good farmer would no more buy a gritty, soapless dentifrice for his family than he would use a gritty soap to wash the high polish of his car. Nor would he give the children a "druggy" tooth paste with strong chemicals any more than he'd use a spraying material so strong as to burn the foliage of his orchard.

COLGATE'S

Cleans Teeth the Right Way

"Washes" and Polishes—
Doesn't Scratch or Scour

The U. S. Public Health Service tells us that diseases of the heart, blood, kidneys and joints are often caused by neglect of the teeth. Cleaning the teeth twice a day with Colgate's is a common sense investment in health.

Colgate's Ribbon Dental Cream has just the combination you need—

- (1) Its specially prepared chalk with rounded edges cleans and polishes safely.
- (2) Its "washing" quality gently cleans the teeth and inside of your mouth.

If your store doesn't carry all the Colgate products listed below, send in the coupon.

COLGATE'S
RIBBON DENTAL CREAM

DELICIOUS
ANTISEPTIC
ECONOMICAL

WORKS OUT A RIBBON
LIES FLAT ON THE BRUSH

CANNOT
ROLL OFF
THE BRUSH

CLEANS TEETH THE RIGHT WAY

K F
7-22-22
COLGATE & CO.
Farm Household, Dept. 106
199 Fulton Street,
New York, N. Y.

Please send me samples of the following articles. I enclose amount of stamps shown for each one checked.

☐ Face Powder . . . 6c
☐ Baby Tale . . . 4c
☐ Shaving Cream . . . 20c
☐ Ribbon Dental Cream, Free

Name.....
R. D.....Town.....State.....
Dealer's Name.....
Address.....

Good Teeth - Good Health

SAVE

\$17.50

Get This Leakproof Iron Drum With Easy Flowing Faucet **FREE**



50 GALLON IRON DRUM

ONE GALLON



It takes us fifty times longer to fill and handle 50 gallon cans of EN-AR-CO Motor Oil than it does one 50-gallon iron drum. The difference is \$17.50. This Difference is Yours.



En-ar-co

SCIENTIFIC REFINING

MOTOR OIL

The Oil of a Million Tests

Think of it! You can now buy this high grade, scientifically refined En-ar-co Motor Oil—the oil that is known to, and used by thousands of farmers everywhere, and endorsed and recommended by prominent tractor, automobile and motor manufacturers, at the big cash saving of 35 cents per gallon, or \$17.50 when you buy it by the iron drum.

This big saving is made possible only by getting En-ar-co to you in quantity lots at the lowest possible expense. You know it costs less to handle fifty gallons of En-ar-co Motor Oil in one iron drum than fifty single gallons in fifty different packages. The difference in cost is 35c per gallon or \$17.50 per iron drum—and this

big cash saving is yours if you order En-ar-co Motor Oil by the iron drum.

You know the National Refining Company. It has been serving the public for forty years and has the reputation among everyone of making the highest quality Petroleum Products on the market. Nobody has ever made any better, and your farm paper or your neighbor will tell you of the high standing of the Company, and the scientifically refined quality of the goods that we sell.

Act Now! Order your drum of En-ar-co Motor Oil today. Advise what tractor, truck, automobile or light plant you want to use it for—we will send you the proper grade and guarantee immediate delivery.

If your dealer can't supply you, fill out the order blank below and mail it direct to us at Cleveland, O., or to any of the following 93 branches:

Arkansas Little Rock, Ark.	Colorado Lamar, Colo.	Illinois Aurora, Ill. Chicago, Ill. Decatur, Ill. East St. Louis, Ill. Joliet, Ill. Marion, Ill. Monmouth, Ill. Peoria, Ill. Pekin, Ill. Quincy, Ill. Springfield, Ill.	Indiana Attica, Ind. Evansville, Ind. Franklin, Ind. Frankfort, Ind. Indianapolis, Ind.	Kentucky Cincinnati, Ky. Covington, Ky. Ellettsburg, Ky. Elkader, Ky. Grunsky Center, Ky. Iowa City, Ky. Iowa Falls, Ky. Keokuk, Ky. Malvern, Ky. Red Oak, Ky. Shenandoah, Ky. Sioux City, Ky.	Kansas Coffeyville, Kan. Great Bend, Kan. Holton, Kan. Hutchinson, Kan.	Kansas Lawrence, Kan. Leavenworth, Kan. Salina, Kan. Topeka, Kan. Wichita, Kan.	Michigan Kalamazoo, Mich.	Minnesota Mankato, Minn.	Missouri Hayti, Mo. Hannibal, Mo. Independence, Mo. Jefferson City, Mo. Kansas City, Mo. Moberly, Mo. Poplar Bluff, Mo. Sedalia, Mo.	Mississippi Jackson, Miss.	Nebraska Aurora, Neb. Beatrice, Neb. Falls City, Neb. Florence, Neb. Fremont, Neb. Geneva, Neb. Hastings, Neb. Kimball, Neb. North Platte, Neb. Omaha, Neb. Stromsburg, Neb.	Nebraska Sidney, Neb. Wahoo, Neb. York, Neb.	Ohio Ashtabula, Ohio Bowling Green, Ohio Canton, Ohio Cleveland, Ohio Columbus, Ohio Findlay, Ohio Fostoria, Ohio Marietta, Ohio Mansfield, Ohio Marion, Ohio Painesville, Ohio	Oklahoma Bartlesville, Okla. Blackwell, Okla. Clinton, Okla. Drumright, Okla. Enid, Okla. Haskell, Okla. Okla. City, Okla. Tulsa, Okla.	South Dakota Aberdeen, S. Dak. Huron, S. Dak. Mitchell, S. Dak. Yankton, S. Dak.	Tennessee Memphis, Tenn.	Wisconsin La Crosse, Wis.
-------------------------------	--------------------------	--	--	--	---	--	------------------------------	-----------------------------	--	-------------------------------	---	---	--	---	--	-----------------------------	------------------------------

EN-AR-CO MOTOR OIL

Light—Medium—Heavy—Extra Heavy

Iron Drums (50 Gal.)	\$0.80
Iron Half-Drums (30 Gal.)	.85
10-Gallon Cans	.95
5-Gallon Cans	1.00
1-Gallon Cans	1.15

THE NATIONAL REFINING CO., 713 National Bldg., Cleveland, Ohio
NATIONAL HEADQUARTERS 4 Modern Refineries—93 Branch Offices

Use this Order Blank

The National Refining Co., 713 National Building, Cleveland, Ohio

Ship me at once by freight from your nearest distributing center.....iron drum of En-ar-co Motor Oil. I want it to lubricate.....(Name of Tractor).....(Name of Car).....(Name of House Lighting Plant).....for which you are to charge me 80 cents per gallon, f. o. b. your nearest shipping station.

En-ar-co Motor Oil is shipped in iron drums containing fifty gallons, so that the invoice price at 80c per gallon will be \$40.00 per iron drum, package free.

My name is.....St. or R. F. D. No.....

Postoffice.....County.....State.....

We are the originators and the scientific refiners of White Rose Gasoline, clear, uniform, powerful; National Light Oil (kerosene), for lamps, tractors, for your stoves and incubators; also En-ar-co Gear Compound, twenty-five pound packages, for differentials, transmissions, etc., also shipped in barrel lots.

Business and Markets

BY JOHN W. SAMUELS

BUOYANCY has characterized the livestock market despite the adverse influences of the coal strike and the railroad strike. Prices for cattle in July have proved especially gratifying to stockmen. Hogs have maintained a reasonably high summer level and prices have held close around \$10 a hundred-weight both at Kansas City and Chicago. Sheep and lamb values have fluctuated considerably but more stable conditions are expected soon. The insatiable demand for breeding stock by sheep men will limit the supply of ewes available for slaughter and will tend to bolster up sheep values.

Prime cattle especially this week at Kansas City are on the upward trend. The call for choice to prime fat steers developed considerable urgency and prices advanced 25 cents to a new high level for the year. Prime steers sold up to \$10.30, yearlings up to \$10.15, and straight heifers up to \$9.50. Wintered summer grazed steers sold up to \$9.50. Plainer killing cattle were not quotably higher. Hog prices in the early part of the week were higher but in the last two days broke sharply and closed the week with a net loss. Sheep and lambs are higher.

Receipts for the week were 40,884 cattle, 9,380 calves, 41,955 hogs, 18,675 sheep compared with 23,812 cattle, 4,113 calves, 36,182 hogs, and 15,765 sheep last week, and 25,150 cattle, 8,264 calves, 29,385 hogs, and 25,285 sheep a year ago.

Cattle Reach New High Level

Killers were after fat cattle this week, and while receipts were more than 50 per cent larger than last week and a year ago, prices rose to a new high position for the year. The bulk of the choice to prime steers sold at \$10 to \$10.30, and the heavily wintered summer grazed steers brought \$8.75 to \$9.35. Prime yearlings sold largely at \$9.50 to \$10.15, and prime heifers at \$9 to \$9.50. The extreme range in grass fat steers was \$5.25 to \$8.50, few below \$6.25 and those were "coasters" in the quarantine division. Grass fat cows and heifers were steady to strong and veal calves firm.

Trade in thin cattle showed a healthy tone with prices for the best grades slightly higher and others steady. Good demand will prevail from now on as feed conditions in the corn belt are promising and large numbers of cattle will be needed for feeding operations. Hog prices in the first two days of the week ruled above the high point last week, but in the last two days the market broke sharply and closed 50 cents under the high point Wednesday and 40 cents under last week's close. The top price at the market's close was \$10.25 and the bulk of the offerings sold at \$9.80 to \$10.20. Pigs sold up to \$10.40.

Prices for sheep and lambs are fully 25 cents above the high point last week. There was some weakness in the market Monday. On the close spring lambs brought \$12.50 to \$13.85, wethers \$6.50 to \$7.50 and ewes \$5.50 to \$6.65.

Horses and Mules

Receipts of horses and mules continued light and the few hundred head offered were reported sold at steady prices. The following quotations are given on horses at Kansas City: Drafters, weighing 1,500 to 1,700 pounds, \$100 to \$140 apiece; fair to good drafters, \$60 to \$100; good chunks, \$60 to \$125. The following prices are quoted on good work mules, 4 to 7 years old: Mules 13½ to 14½ hands high, \$40 to \$85; 15 to 15½ hands, \$85 to \$125; 15½ to 16 hands, \$100 to \$140; extra big mules, \$125 to \$150.

Hides and Wool

The following prices are quoted on green salted hides at Kansas City: No. 1 green salted hides, 12c a pound; No. 2 hides, 11c; side brands, 8c; bulls, 7c; green glue, 4c; dry flint, 13 to 14c; horse hides, \$3 to \$3.75 apiece; pony hides, \$2.50.

The following quotations are given on Kansas, Oklahoma and Nebraska wool: Bright medium wool, 30 to 32c a pound; dark medium, 28 to 30c; light

fine, 30 to 32c; heavy fine, 20 to 25c; light fine good staple, Colorado, New Mexico, Utah and Texas wool, 30 to 35c.

The following sales of dairy products are reported in Kansas City this week: Butter—Creamery, extra in cartons, 30c a pound; packing butter, 24c; buttermilk, 34c; Longhorn cheese, 22½c; Brick, 21½c; imported Roquefort, 66c; Limburger, 19 to 20c; New York Daisies, 25c; Swiss, 25½ to 38c.

The following prices are quoted at Kansas City on poultry and poultry products:

Live Poultry—Hens, 17 to 20c a pound; broilers, 25 to 30c; roosters, 11c; turkeys, 30c; old toms, 25c; geese, 8c; ducks, 12 to 20c according to age.

Eggs—Firsts, 22c a dozen; seconds, 18c; selected case lots, 28c.

Kansas City Grain Market

The Government's July crop report showing a decrease of 38 million bushels in the estimate of the 1922 winter wheat crop tended to give strength to the market at Kansas City and Chicago. The yield of the winter wheat crop is now estimated at 569 million bushels as compared with 587 million bushels for last year and the five-year average of 566 million bushels. The spring wheat crop of the United States is estimated at 248 million bushels or 1 million bushels more than the estimate made on June 1. The winter and spring wheat crop combined totals 817 million bushels as compared with 795 million bushels for last year.

Delays in threshing and in the marketing of new wheat also have had a tendency to strengthen wheat prices. July deliveries advanced 5 cents and other deliveries showed net gains of 3 to 3½ cents.

The forecast for the corn crop is 2,860 million bushels or 220 million bushels less than the yield for last year. The condition of the crop is rated at 85.1 per cent as compared with 91.1 per cent last year. However if the weather continues favorable the next report may show a condition equal to the August condition for last year.

Corn futures moved up and down the last 10 days but little net change has resulted.

Quotations on Futures

The following quotations on grain futures are given in Kansas City: July wheat, \$1.08½; September, \$1.06½; December, \$1.08½; July corn, 56½c; September, 59c; September oats, 36½c.

Hard and dark hard wheat on cash sales at Kansas City are quoted unchanged. Red wheat is unchanged to 1 cent lower. The following sales are reported at Kansas City:

No. 1 old dark hard wheat, \$1.28 to \$1.50; No. 1 new hard wheat, \$1.40; No. 2 old dark hard, \$1.27 to \$1.50; No. 2 new dark hard, \$1.43 to \$1.48; No. 3 old dark hard, \$1.25 to \$1.50; No. 3 new dark hard, \$1.48; No. 4 old dark hard, \$1.23 to \$1.47; No. 4 new dark hard, \$1.30 to \$1.46.

No. 1 old hard wheat, \$1.13 to \$1.45; No. 1 new hard, \$1.13 to \$1.30; No. 2 new hard, \$1.12 to \$1.45; No. 3 old hard, \$1.11 to \$1.44; No. 3 new hard, \$1.11 to \$1.35; No. 4 old hard, \$1.07 to \$1.42; No. 4 new hard, \$1.09 to \$1.31; No. 5 old hard, \$1.15 to \$1.18; No. 5 new hard, \$1 to \$1.30.

No. 1 old Red wheat, \$1.10 to \$1.11; No. 1 new Red, \$1.10; No. 2 old Red, \$1.08 to \$1.10; No. 3 old Red, \$1.06 to \$1.08; No. 3 new Red, \$1.07; No. 4 old Red, \$1.03 to \$1.04; No. 4 new Red, \$1.04; No. 5 old Red, \$1.03; No. 5 new Red, \$1.04.

Corn and Other Cereals

The following quotations are given at Kansas City on corn and other cereals:

No. 1 White corn, 58c; No. 2 White, 58c; No. 3 White, 57½c; No. 4 White, 57c; No. 1 Yellow corn, 62½c; No. 2 Yellow, 62c; No. 3 Yellow, 61½c; No. 4 Yellow, 61c; No. 2 mixed corn, 58½ to 59½c; No. 3 mixed, 58 to 58½c; No. 4 mixed, 57 to 57½c.

No. 2 White oats, 38½ to 39c; No. 3 White, 37½ to 38c; No. 4 White, 36½ to 37c; No. 2 mixed oats, 36 to 37c; No. 3 mixed, 35 to 36c; No. 2 Red oats, 36 to 37c; No. 3 Red, 35 to 36c; No. 4 Red, 33 to 35c.

(Continued on Page 20)

Less Wheat Reported Now

Kansas Crop Estimate Decreased 8 Million Bushels

BY JOHN W. WILKINSON

CROP conditions on July 1 as shown in the recent Government report were not so favorable as would be a report based on present improved conditions brought about by the rains of the last two weeks. According to Edward C. Paxton, Kansas statistician for the United States Bureau of Crop Estimates conditions on July 1 warranted a forecast for a production in Kansas of 109,447,000 bushels of winter wheat, or 8 million bushels less than the estimate made on June 1. The average crop for the last five years has been 109,496,000 bushels or 49,000 bushels more than the present estimated yield.

The corn crop is estimated to be 5,291,000 acres with a possible yield of 94,418,000 bushels and a condition of 83 per cent. The Kansas oats crop is estimated at 14,540,000 bushels or 9 million bushels less than on June 1 and also 9 million bushels less than for last year.

Sorghum Acreage Heavily Increased

The barley crop declined from 13,176,000 bushels to 14,540,000 bushels as compared with 13,200,000 bushels a year ago. The rye crop is estimated at 4,241,000 bushels. This year's crop of kafir, milo and feterita raised for grain is estimated at 1,153,000 acres with a yield of 23,131,000 bushels and a condition of 85 per cent of the normal, as compared with an area of 858,000 acres and a yield of 13,361,000 acres last year. Sorghums grown for forage purposes will approximate 772,000 acres as compared with 660,000 acres last year.

The potato crop comprises 65,000 acres with a condition of 75 per cent and a possible yield of 4,241,000 bushels. The conditions of other crops in Kansas for July 1 are rated as follows by Mr. Paxton: Flax, 74 per cent; rye, 80; apples, 76; peaches, 87; grapes, 93; timothy, 83; clover, 92; alfalfa, 85; pastures, 90; broomcorn, 86; and sugar beets, 90.

Special County Reports

Recent rains have improved greatly the conditions of all crops and this will be shown in the August report. Local conditions of crops, farm work, rural markets and livestock are shown in the following special reports from county correspondents of the Kansas Farmer and Mail and Breeze:

Atchison—Wheat harvest is finished. The threshing that has been done indicates a satisfactory average yield. Nearly all fields of corn have been laid by. Chinch bugs are damaging some fields. The second cutting of alfalfa and timothy hay are being put up. Wind storms recently did some damage to fruit trees.—Alfred Cole, July 13.

Barber—The splendid rain we had July 6 will make the ground easy to prepare for wheat. Farmers are busy harvesting, threshing, and preparing the seedbed for the new crop. Corn and other row crops are in excellent condition. The second crop of alfalfa has been harvested but was much lighter than the first cutting. There is very little movement in livestock of any kind.—Homer Hastings, July 14.

Brown—The wheat that has been threshed averages from 15 to 25 bushels an acre. The average for the county will possibly be 20 bushels an acre. Oats will average about 35 bushels. Corn is now laid by and is in excellent order. Rural market report: Wheat, \$1; corn, 52c; cream, 30c; eggs, 15c; hens, 16c; springs, 25c; hogs, \$10.75 a hundredweight.—A. C. Dannenberg, July 15.

Chautauque—Corn is in excellent condition. Threshing has been started and wheat is of a fine quality, but is making an unsatisfactory yield. The oats yield also is unsatisfactory. The hay crop is very good. The weather has been unusually cool for July. Many chinch bugs are going from the stubble to the corn fields. Rural market report: Butterfat, 30c; eggs, 15c; spring chickens, 20c; flour, \$2.15 a sack.—A. A. Nance, July 13.

Cherokee—We had a good general rain last week and all growing crops are in splendid condition. Farmers are threshing. A few are marketing their grain. Rural market report: Wheat, 97c; early potatoes, \$1.80; eggs, 15 to 20c; butterfat, 35c.—L. Smyers, July 14.

Cloud—We have had much rain since July 6 which was several times accompanied by strong winds that did some damage to buildings and shocked grain. Threshing has begun and judging from the wheat which has been threshed, good quality grain and a satisfactory average yield may be expected. The second crop of alfalfa which will be light is now ready to be cut. Potatoes are excellent.—W. H. Plumly, July 15.

Douglas—The farmers are busy threshing and digging potatoes. Second crop of alfalfa has been cut. All but a few fields of corn are laid by. We have been having plenty of rain and everything is in excellent condition. Potatoes are yielding 100 bushels an acre. Wheat will average about 25 bushels an acre. Housewives are busy canning fruit and vegetables. Rural market report: New wheat, 95c; corn, 55c; potatoes, \$1.50 a hundred pounds; eggs, 18c; butter, 30c.—Mrs. O. L. Cox, July 13.

Elk—Threshing was hindered by the wet weather last week. Oats are all harvested.

Corn, except that which was replanted, is looking very fine. The second crop of alfalfa is satisfactory. Prairie grass is excellent.—D. W. Lockhart, July 14.

Ford—We had a good rain July 6. Wheat harvest is about finished. Help is scarce. A few farmers are using barges, while others are cutting with binders and shocking the grain. Rural market report: New wheat, \$1; old wheat, \$1.20; corn, 50c; barley, 50c; oats, 50c.—John Zurbuchen, July 15.

Franklin—Wheat threshing is in progress. The average will be around 12 bushels an acre. Practically no oats were cut to thresh, but they will be used for hay. Corn and pastures are in excellent condition. All livestock are in a satisfactory condition.—E. D. Gillette, July 13.

Hamilton—Altho the weather has been dry and hot for the last five weeks, with few local showers, the prospects are excellent for satisfactory crops of all kinds. Wheat and rye harvest has started. The wheat yield will be very good. Cattle, sheep and horses are getting sleek and fat and prices paid for them are very satisfactory. Pastures and gardens are fine. Many large flocks of poultry are being raised. There are more hogs in county than ever before. We had some strong winds which broke down many trees last week. Rural market report: Eggs, 20c; fries, 28c; wheat, 95c; corn, 60c; rye, 75c; fat hogs, \$3.25; alfalfa hay, \$6 to \$10.—W. H. Brown, July 14.

Harper—The damage done by heat to the wheat was underestimated. Ground is dry. Cultivated crops and alfalfa are in excellent condition. Creditors are asking for the collection of their loans. New wheat is worth \$1.—S. Knight, July 15.

Harvey—The weather at present is ideal for harvest, plowing corn and threshing early cut wheat. The alfalfa crop is ready to be harvested. Rural market report: Wheat, 90c; corn, 62c; oats (old), 50c; potatoes (new), \$1.20; eggs, 15c; butter, 35c; ice, 50 to 60c.—H. W. Prouty, July 13.

Jackson—Four inches of rain delayed threshing and stacking of grain. Corn is about all laid by and is in very satisfactory condition. Chinch bugs are doing some damage to corn. The oats crop was unsatisfactory. Wind storms the past week did considerable damage to buildings and grain in the field.—F. O. Grubbs, July 14.

Labette—We have had plenty of rain for the present. Wheat is not as good as it was last year. The average so far has been from 10 to 16 bushels an acre. The hay crop will be heavy this year. Corn is excellent where sufficient cultivation was given it. Rural market report: Wheat, 96c; corn chop, \$1.65; cream, 34c; eggs, 18c; flour, \$2.10 per 48 pounds.—J. N. McLane, July 14.

Lane—Harvest has begun and more help is needed. Combine machines will start the first of the week. Wheat will average about 5 or 6 bushels an acre. Pasture and feed crops will be helped by the rain that fell July 6. Public sales are satisfactory. Rural market report: Butterfat, 29c; eggs, 13c.—S. F. Dickinson, July 15.

Linn—We had a fine rain last week. Row crops are clean and are now making an excellent growth. Threshing has not started yet. Oats acreage is small. A few fields of wheat were so unsatisfactory that they were not cut. Several sales were held last week. Some road work is being done.—J. W. Chinesmith, July 13.

McPherson—Harvest started June 22, but was soon interrupted by rains. There are still a few fields to be cut. The oats crop is unsatisfactory. The wheat that has been threshed indicates a good yield. The second crop of alfalfa is now ready to be cut. Pastures and hay meadows are excellent. Corn is rather small and some fields are being damaged by the chinch bugs.—John Ostlund, Jr., July 15.

Russell—Wheat harvest has been delayed by the recent wind and rain storms. Several buildings were damaged by the high winds. Spring crops that were not damaged by hail are excellent. Pastures are very good.—M. Bushell, July 13.

Sherman—Rye has been harvested and is making a very satisfactory yield. Wheat that fired and prematurely ripened was cut and kept separate from the other wheat. Local showers are keeping sod and late wheat green and it is filling with plump berries. Thin wheat is getting weedy. Barley is generally satisfactory. Corn and all forage crops are excellent.—J. B. Moore, July 14.

Wabaunsee—Wheat harvest has been finished. Threshing has begun. Wheat is of a fair quality, the tests averaging from 52 to 61. An over supply of rain is causing some wheat to sprout in the shock. Pastures are excellent and livestock is looking fine. Corn is making a splendid growth. Rural market report: New wheat, 94c to \$1.05; eggs, 16c; hens, 15c.—G. W. Hartner, July 15.

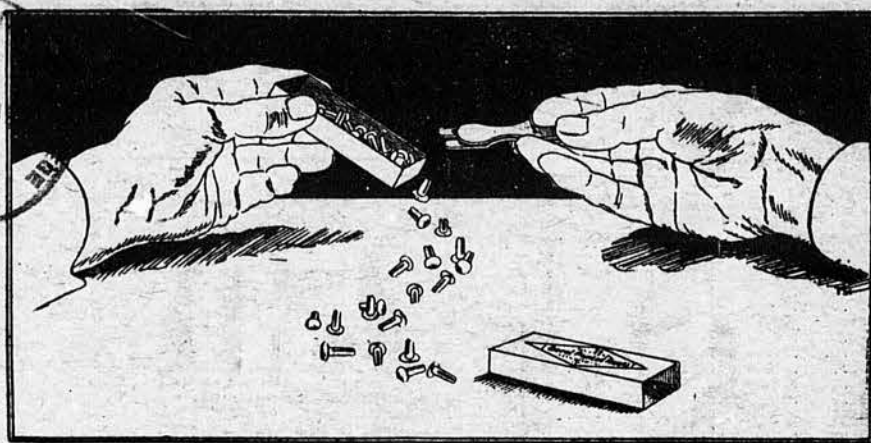
Washington—We are having very windy weather. Another rain would be welcome as the corn fields seem dry. Harvesting is about finished and threshing has started. The wheat yield is satisfactory. Pastures are excellent. Rural market report: Eggs, 16c; butterfat, 30c; hens, 17c; wheat, \$1; corn, 50c.—Ralph B. Cole, July 13.

Wilson—Harvest is finished. The yield will be satisfactory. A 4-inch rain put the streams out of their banks and corn and kindred crops were neglected to save the wheat. Pastures are excellent. Two crops of alfalfa have been cut but both were damaged.—S. Canty, July 14.

On Culling Farm Poultry

An excellent bulletin on Culling Farm Poultry, Circular No. 93, by Loyal F. Payne, has just been issued by the Kansas State Agricultural College; copies may be obtained free, so long as the supply lasts, on application to the college at Manhattan. Every farmer who has poultry on the place should send for a copy. The bulletin tells how to eliminate the unprofitable hens.

Kansas needs more alfalfa.



Rivets have an Everyday Use on the Farm

OUR Bevel Pointed Rivets are always at your service in scores of practical ways.

A slipping belt, a broken harness, an old strap or part of the automobile need repairing.

Out comes the box of rivets with the handy hand tool from your hip pocket and you're all set for the job at hand.

If you want a quality rivet, either Tubular or Bevel Pointed, don't be misled by price, but look for our trade mark when you buy. The best is the cheapest in the long run. Our rivets have been standard for fifty years.

Every rivet is perfect and can be used, thus eliminating waste and making the final cost less than for inferior substitutions.

Your dealer can supply you if you insist on having what you want. Look for our name and trade mark.



Tubular Rivet & Stud Co.

Established 1873

Boston, Mass.

"Buy for Quality and You Buy for Economy"

One Man Can Move 300 to 800 Bushels of Grain An Hour With the

LIBERTY GRAIN BLOWER

Elevate, clean and grade your grain in one operation. A powerful fan does all the work. Only one moving part. No buckets, chains or gears to get out of order. No inside scooping necessary. One man can move it. Assembled or taken down in five minutes. Costs only half as much as old style elevators. Pays for itself in a few days. Send name today for FREE Booklet describing the Liberty Grain Blower and special 1922 price offer. Midwest Steel Products Co., 405 American Bank Bldg., Kansas City, Mo.

Our Special 1922 Campaign Offer

Kansas Readers Only

The Topeka Daily Capital

Daily and Sunday—7 Issues a Week

\$2.50 From Now Until **\$2.50**
Jan. 1, 1923

This is State Campaign Year and Kansans are always active and alert in politics.

You want to know who are candidates and what they advocate before you vote in the August primary. You can then cast a more intelligent vote in the general election in November.

The Topeka Daily Capital keeps in close touch with every section of the State and is the Official State Paper of Kansas.

We will also keep you posted with National affairs from Washington, D. C. WHY NOT be posted?

Mail Your Check
Do It Now—
Use This Coupon

Offer Not Good in
City of Topeka

The Topeka Daily Capital, Topeka, Kansas

Enclosed find \$..... for which send me The Topeka Daily and Sunday Capital to January 1, 1923.

Name.....

Address.....

FARMERS' CLASSIFIED ADVERTISING

Rate: 10 cents a word, each insertion, on orders for less than four insertions; four or more consecutive insertions the rate is 8 cents a word. Count as a word each abbreviation, initial or number in advertisement and signature. No display type or illustrations admitted. Remittances must accompany orders. Real estate and livestock advertising have separate departments and are not accepted for this department. Minimum charge, ten words.

TABLE OF RATES					
Words	One time	Four times	Words	One time	Four times
10.....	\$1.00	\$3.20	26.....	\$2.60	\$ 8.32
11.....	1.10	3.52	27.....	2.70	8.64
12.....	1.20	3.84	28.....	2.80	8.96
13.....	1.30	4.16	29.....	2.90	9.28
14.....	1.40	4.48	30.....	3.00	9.60
15.....	1.50	4.80	31.....	3.10	9.92
16.....	1.60	5.12	32.....	3.20	10.24
17.....	1.70	5.44	33.....	3.30	10.56
18.....	1.80	5.76	34.....	3.40	10.88
19.....	1.90	6.08	35.....	3.50	11.20
20.....	2.00	6.40	36.....	3.60	11.52
21.....	2.10	6.72	37.....	3.70	11.84
22.....	2.20	7.04	38.....	3.80	12.16
23.....	2.30	7.36	39.....	3.90	12.48
24.....	2.40	7.68	40.....	4.00	12.80
25.....	2.50	8.00			

RELIABLE ADVERTISING

We believe that every advertisement in this department is reliable and exercise the utmost care in accepting classified advertising. However, as practically everything advertised in this department has no fixed market value, and opinions as to worth vary, we cannot guarantee satisfaction. We cannot guarantee eggs to reach the buyer unbroken or to hatch, or that fowls or baby chicks will reach the destination alive. We will use our office in attempting to adjust honest disputes between buyers and sellers, but will not attempt to settle minor disputes or brokerings in which the parties have vilified each other before appealing to us.

Special Notice All advertising copy intended for the Classified Department must reach this office by 10 o'clock Saturday morning, one week in advance of publication.

AGENTS WANTED

FARMERS—SELL AUTOMOBILE FARM and livestock trailers to neighbors, spare time. Large profit. Bailor Manufacturing Co., Wichita, Kan.

AGENTS—SELL RUSLER PUMPS, DISINFECTORS, AUTOWASHERS. Davis sold 24 in 2 days recently. Profits \$2.75 each. New plan. Sprayer Company, Johnstown, Ohio.

SIDE LINE SALESMAN WANTED to sell coal to your trade in carload lots. Earn a week's pay in an hour. For particulars write Washington Coal Co., 3534 So. Racine, Chicago.

LOCAL MEN WANTED TO SELL NURSERY STOCK. Cash paid weekly. Experienced men preferred. References required. Address Wichita Nurseries & Seed House, Box B, Wichita, Kan.

WANTED—RELIABLE, ENERGETIC MEN to sell National Brand fruit trees and a general line of nursery stock. Unlimited opportunities. Every property owner a prospective customer. Carl Heart earned \$2,126.7 in 18 weeks, an average of \$128.48 per week. You might be just as successful. Outfit and instructions furnished free. Steady employment. Cash weekly. Write for terms. The National Nurseries, Lawrence, Kan.

SERVICES OFFERED

PATENTS, BOOKLET AND ADVICE free. Watson E. Coleman, Patent Lawyer, Pacific Building, Washington, D. C.

IS YOUR WAY BETTER? PATENT YOUR improvements. Lamb & Co., Patent Attorneys, 1419 G Street, Washington, D. C.

COLLECTIONS, ACCOUNTS, NOTES, claims collected everywhere on commission; no collection, no pay. Allen Mercantile Service, 262 Lathrop Bldg., Kansas City, Mo.

INVENTORS WRITE FOR OUR ILLUSTRATED book and record of invention blank. Send model or sketch for our opinion of its patentable nature. Highest references, prompt service. Reasonable terms. Victor J. Evans & Co., 825 Ninth, Washington, D. C.

MILLIONS SPENT ANNUALLY FOR ideas. Hundreds now wanted. Patent yours and profit. Write today for free book—tell how to protect yourself, how to invent, ideas wanted, how we help you sell, etc. 402 Patent Dept. American Industries, Inc., Washington, D. C.

PATENTS—PROTECT YOUR RIGHTS. Before disclosing invention write for booklet and blank form Evidence of Conception to be signed, witnessed and returned with rough sketch model of your idea, upon receipt of which I will promptly give opinion of patentable nature and instructions. No charge for preliminary advice. Highest references. Prompt, personal attention. Clarence O'Brien, Registered Patent Lawyer, 743 Southern Building, Washington, D. C.

EDUCATIONAL

MOLER BARBER COLLEGE, LARGEST and best. Write for free catalog. 544 Main St., Kansas City, Mo.

LAWRENCE BUSINESS COLLEGE, LAW-rence, Kansas, trains its students for good paying positions. Write for catalog.

AMBITIOUS MEN, WRITE TODAY FOR attractive proposition, selling subscriptions to America's most popular automobile and sportsman's magazines. Quick sales. Big Profits. Pleasant work. Digest Publishing Co., 9622 Butler Bldg., Cincinnati.

HELP WANTED

\$135 MONTH COMMENCE. RAILWAY mail clerks. Steady work. List positions free. Write today. Franklin Institute, Dept. G16, Rochester, N. Y.

KODAK FINISHING

TRIAL ORDER—SEND 25c AND ROLL for 6 beautiful glossitone prints or 6 reprints. Fast service. Day Night Studio, Sedalia, Mo.

AUTOMOBILES

NEW OLDSMOBILE 8, SEVEN PASSEN-ger, for \$1,250. Good second hand Oldsmobile 8, five passenger, for \$600. H. L. Thompson, Newton, Kan.

BUSINESS OPPORTUNITIES

FOR SALE—OZARK TRAIL GARAGE DO-ing good business. Box 22, Piedmont, Kan.

CONTROL AND ACTIVE MANAGEMENT of Coca Cola Bottling plant located at Topeka, Kansas, for sale. Price \$30,000 for 1/2 interest. May take farm as part payment. Address F. R. Gitterman, Coca Cola Bottling Co., Topeka, Kan.

SELL US YOUR SPARE TIME: WE WANT a reliable man or woman in every community to work for us in their spare time. You will like our plan. Many people receive liberal checks from us each week. You can do the same. Write to the Circulation Manager, Capper Publications, Topeka, Kansas, and simply say, "Tell me how to turn my spare time into dollars."

DON'T WASTE YOUR SPARE TIME—IT can be turned into money on our easy plan. We have a splendid offer for ambitious men or women who desire to add to their present income, and will give complete details on request. Simply say, "Tell me how to turn my spare time into dollars" and we will explain our plan completely. Address, Circulation Manager, Capper Publications, Topeka, Kan.

FORD AGENCY AND GARAGE, \$20,000. Buick agency and garage, \$15,000. Buildings rented, cash only. Hardware, invoice, \$20,000. Implement business \$25,000. All located in good live western Kansas towns on main line U. P. R. R. and highways, doing good business, invite full investigation. Trade for land on main line U. P. in western Kansas only. Geo. J. Diebolt, Wakeney, Kan.

FOR SALE—THE MONTEZUMA HOTEL, new building, 14 guest rooms (2 double rooms) and 3 family bed rooms, kitchen, large pleasant dining room, comfortable office, furnace heat, electric light, bath, hot and cold running water, sun room; furnished, everything new and clean. Two lots, small garage, real estate office. Call for only \$10,000, good terms or \$500 off for cash. Luther Craycraft, Montezuma, Kan.

PUT YOUR BUSINESS BEFORE MORE than 1,180,000 farm families in the 16 richest agricultural states in the Union by using the Capper Farm Press. A classified advertisement in this combination of powerful papers will reach one family in every three of the great Mid-West, and will bring you mighty good results. This does not apply to real estate or livestock advertising. The rate is only 60 cents per word, which will give you one insertion in each of the five sections, Capper's Farmer, Kansas Farmer and Mail and Breeze, Missouri Ruralist, Nebraska Farm Journal, and Oklahoma Farmer. Capper Farm Press, Topeka, Kansas.

FARM MACHINERY

MACHINERY FOR SALE

NUMBER NINETEEN OHIO ENSILAGE cutter, excellent condition. G. L. Mathews, Kinsley, Kan.

No. 17 OHIO ENSILAGE CUTTER, IN good condition; for sale. Perkins & Munro, Oswego, Kan.

FOR SALE—RUMELY 20-40 TRACTOR, Rumely 28x48 steel separator, nearly new. Ira Emig, Abilene, Kan.

FOR SALE—NEW INTERNATIONAL 14-18 power hay press. Baled less than 80 tons. H. P. Pirott, Linn, Kan.

16-30 RUMELY 4 BOTTOM PLOW, 10 tandem disc, look like new, \$1,500. Eight 28 inch disc plow, \$125. Orla Moore, Opolis, Kan.

STEAM THRESHING OUTFIT—18 H. P. Gaar-Scott engine, 36x60 Rumely separator, good condition, easy terms. Send reference. E. J. Bliss, Bloomington, Kan.

BARGAIN—UNCLE SAM 20-30 TRACTOR with 4 bottom Oliver plow, plowed and harvested about 100 acres, good as new. Price \$1,000. Factory price \$2,600. L. C. Rohlfing, Lawrence, Kan.

5 MODEL M SAMSON TRACTORS; 5 TWO bottom Samson tractor plows; 3 three bottom P & O tractor plows. New and in first class condition at special prices. Ft. Scott Tractor & Implement Co., Ft. Scott, Kan.

FOR SALE—TWO USED SEPARATORS, 24 inch, Avery-Wallis; two used Wallis tractors, one almost new 12-20 Emerson, \$450. One new Case 2 ton truck. Write for special cash prices on new Wallis tractors. M. O. Koesling, Bloomington, Kan.

CORN HARVESTER CUTS AND PILES ON harvested or windrows. Man and horse cuts and shocks equal corn binder. Sold in every state. Only \$25 with fodder tying attachment. Testimonials and catalog free showing picture of harvester. Process Harvester Co., Salina, Kan.

THRESHING OUTFIT COMPLETE, AULT-man-Taylor 30-60 engine with new cylinders, pistons and rings; 36x68 Case separator equipped with new Garden City feeder and Van Deren weigher; cook shack and 500 gallon gas tank with trucks. Everything overhauled completely. Will guarantee to do work as good as new. Owner in hospital. If you are interested write to Stout Bros., Hazelton, Kan.

TRACTOR SALE—THREE BRAND NEW Lauson tractors for sale cheap. One 15-25 guaranteed to pull three 14 inch plows and 26 inch cylinder separator. Two 15-30 guaranteed to pull four 14 inch plows and 30 inch cylinder separator. One rebuilt Rock Island Helder with three power lift 12 inch plows in first class condition. For price and terms write Lock Box 31, Station A, Kansas City, Missouri.

BARGAINS IN REBUILT AND SECOND hand gas tractors, steam engines and threshers. All ready to go in the field. One each 15-30, 18-36, 25-50 and 30-60 Aultman & Taylor gas engines. Two 25 horse Aultman & Taylor steam engines. One 25-45 Twin City gas tractor. Two 21 horse Advance steam engines. One 25-50 Avery gas tractor. One 15-30 Coleman gas tractor. One each 16 horse Rumely, Russell and Northwest steam engines. One 14 horse Geisler steam engine. One 13 horse Russell steam engine. Various makes and sizes of threshers complete with attachments. If interested write or wire the Aultman & Taylor Machinery Company, 1301 West 10th Street, Kansas City, Mo., for price and terms.

MACHINERY FOR SALE OR TRADE

12-25 TRACTOR AND PLOW TO TRADE for good stock. Box 115, Harper, Kan.

SALE OR TRADE—CASE 12-25, 1 MOGUL Gleaser Steamer 26, 16-30 Rumely, 28x44 separator. Hiebert & Sons, Hillsboro, Kan.

MACHINERY WANTED

WANTED—STEAMER ENGINE OR TRAC-tor. Arthur Bergling, Ludell, Kan.

MONEY MAKER ENSILAGE CUTTER No. 85 wanted. Perkins & Munro, Oswego, Kan.

WANTED—HOLT 5 TON TRACTOR 14 inch 5 bottom plow. S. X., care Mail and Breeze.

BUILDING SUPPLIES

WHOLESALE PRICES LUMBER AND bales. Hall-McKee, Emporia, Kan.

SEEDS AND PLANTS

ALFALFA, \$10; SWEET CLOVER, \$6; timothy, \$3 per bushel. 98% pure. Standard Seed Company, Dept. C, Kansas City, Mo.

TURNIP SEED, PURPLE TOP STRAP Leaf and Purple Top Globe, White Globe and Cowhorn, 55 cents per pound, prepaid. Binding-Stevens Seed Co., Tulsa, Okla.

SEEDS WANTED—WE BUY CAR LOTS OR less. Alfalfa, clovers, cane, millet, Sudan. Send samples for bids. Ed. F. Mangelsdorf & Bros., Wholesale Field Seeds, St. Louis, Mo.

FOR SALE—PURE INSPECTED SEED OF Kanred, Blackhull, Fulcaster and Harvest Queen wheat and Kanota oats, inspected by the Kansas Crop Improvement Association, under the supervision of the Kansas State Agricultural College specialists. For list of growers apply to S. C. Salmon, Secretary, Manhattan, Kan.

FOR THE TABLE

5 POUNDS FULL CREAM CHEESE, \$1.35 postpaid. Roy C. Paul, Moran, Kan.

HONEY

HONEY—NEW CROP, VERY FINE. TWO 60-lb. cans, \$12. Bulk comb, \$17. Bert W. Hopper, Rocky Ford, Colo.

TOBACCO.

TOBACCO—KENTUCKY'S PRIDE, RICH mellow chewing, ten pounds, \$3; smoking, ten pounds, \$2; twenty, \$3.50. Farmer's Club, Mayfield, Ky.

KENTUCKY TOBACCO, NATURAL LEAF. Smoking, 10 lbs., \$2.50; 20 lbs., \$4. Chewing, 10 lbs., \$3; 20 lbs., \$5. Farmers Tobacco Union, Sedalia, Ky.

NATURAL LEAF TOBACCO, CHEWING, 5 pounds, \$1.75; 10 pounds, \$3. Smoking, 5 pounds, \$1.25; 10 pounds, \$2. Send no money. Pay when received. Tobacco Growers Union, Paducah, Ky.

NATURAL LEAF TOBACCO, CHEWING, 5 pounds, \$1.75; 15 pounds, \$4. Smoking, 5 pounds, \$1.25; 15 pounds, \$3. Send no money, pay when received. Farmers Tobacco Association, Paducah, Kentucky.

TYPEWRITERS

REBUILT TYPEWRITERS, ALL MAKES. Sold, rented, repaired, exchanged. Fire proof safes. Adding machines. Jos. C. Wilson & Co., Topeka, Kan.

DOGS AND PONIES

PIT BULL PUPS, MALES, \$10; FEMALES, \$5. Lawrence Ryan, Detroit, Kan.

FOR SALE—PURE BRED SCOTTISH TER-rier puppies. W. F. Slagle, Alton, Kan.

MUST SELL COLLIES, PUPS, \$3.50, \$5. Females bred \$15.00; unbred, \$6. Trained dog, \$10. Frank Barrington, Sedan, Kan.

AIREDALE PUPPIES, LIGHT IN COLOR. Fine farm and watch dogs. Pedigree furnished. Males, \$10; females, \$5. C. A. Laid, Garnett, Kan.

CHESTNUT'S ENGLISH SHEPHERD PUP-pies are natural heeler. Shipped on approval. Send stamp for description and prices. H. W. Chestnut, Kincaid, Kan.

MISCELLANEOUS

LETTER HEADS AND ENVELOPES, 100 each, \$1. Specialty Co., 1421 West 6th, Topeka, Kan.

STRAYED

TAKEN UP BY NETTIE M. HINES OF Morris, Wyandotte county, Kansas, on or about May 28, 1922, one large bay mare, no marks or brands. William Beggs, County Clerk, Kansas City, Kan.

POULTRY

BABY CHICKS

QUALITY CHICKS, LEGHORNS, ANCONAS and large breed, \$9 to \$11 per 100. Fleda Jenkins, Jewell, Kan.

BABY CHICKS FOR FALL DELIVERY. Prices 11 cents and 10 cents. Floyd Bozarth, Eskridge, Kan.

BABY CHICKS, 8c UP, 1,000,000 FOR 1922. Twelve best breeds. Catalog free. Booth Hatchery, Clinton, Mo.

CHICKS, 8c UP, LEADING VARIETIES Postpaid. Guaranteed. Illustrated chick guide free. Superior Hatcheries, Windsor, Mo.

ORDER CHICKS NOW FOR SEPTEMBER delivery. Reds, Barred Rocks, 11 cents; White Leghorns, 10 cents. Postpaid. Guaranteed alive. Young's Hatchery, Wakefield, Kan.

Business and Markets

(Continued from Page 18)

No. 1 White kafir, \$1.75 a hundred-weight; No. 2 White, \$1.74 to \$1.75; No. 3 White, \$1.73 to \$1.74; No. 4 White, \$1.71 to \$1.72; No. 2 milo, \$1.96; No. 3 milo, \$1.88 to \$1.96; No. 4 milo, \$1.85 to \$1.95.

No. 2 rye, 82 to 83c a bushel. No. 3 barley, 55c; No. 4 barley, 54c.

Hay Market Unchanged

Late quotations show the hay market at Kansas City unchanged. The following sales were made:

Choice alfalfa, \$17 to \$19 a ton; No. 1 alfalfa, \$15 to \$16.50; standard alfalfa, \$13 to \$14.50; No. 2 alfalfa, \$11 to \$12.50; No. 3 alfalfa, \$8.50 to \$10.50.

No. 1 prairie hay, \$13 to \$14; No. 2 prairie, \$11 to \$12.50; No. 3 prairie, \$6 to \$10.50; packing hay, \$4 to \$5.

No. 1 timothy hay, \$14 to \$15; standard timothy, \$12 to \$13.50; No. 2 timothy, \$10.50 to \$11.50; No. 3 timothy, \$8.50 to \$10.

Light mixed clover hay, \$14 to \$14.50; No. 1 clover, \$11.50 to \$13.50; No. 2 clover, \$8.50 to \$11.

Straw, \$9 to \$10.

Millfeeds and Broomcorn

The following prices on millfeeds are given at Kansas City: Bran, \$13.50 to \$14 a ton; brown shorts, \$16 to \$16.50; gray shorts, \$19 to \$19.50; linseed meal, \$50 to \$55; cottonseed meal and nut cake, \$49 to \$53; tannage, \$65; No. 1 alfalfa meal, \$19 to \$20; No. 2 alfalfa meal, \$16 to \$17; molasses alfalfa meal, \$18 to \$21; grain molasses horse feed, \$24 to \$27; grain molasses hog feed, \$37.

The following quotations are given at Kansas City on broom corn: Fancy whisk brush, \$275 a ton; fancy hurl, \$250; choice Standard, \$180 to \$220; medium Standard, \$140 to \$180; Oklahoma Dwarf, \$130 to \$160; common Oklahoma Dwarf, \$110 to \$130.

Invest Safely and Profitably

In these days when every dollar counts and when so many "investment" schemes are directed at the farmer, the problem of investing surplus funds is really important. I believe that I have solved that problem for the readers of Kansas Farmer & Mail & Breeze. This investment is backed by 28 years of success in a business which has grown to be one of the strongest concerns in the Midwest, and in fact, the largest business of its kind in the world. Further conservative expansion and additional equipment are the motives for obtaining additional capital at this time. Amounts of \$100 or more are solicited. (The rate of interest is 7 percent payable semi-annually with the privilege of withdrawing any or all of the investment at any time upon 30 days' notice. I can unqualifiedly recommend this investment and believe it as safe as a government bond. A letter to me will bring you promptly further information. Arthur Capper, Topeka, Kan.

Cattle were the first money. The Roman word for money, pecunia is derived from pecus, meaning cattle.

The Chinese made agriculture a part of their school courses more than 4,000 years ago.

LEGHORNS

S. C. BUFF LEGHORN COCKERELS, 60 cents each; \$5 for 10. Irl Snyder, Effingham, Kan.

PURE BRED WHITE LEGHORN COCK-erels, 3 months old, \$1 each. Earl Garrett, LeRoy, Kan.

ROSE COMB WHITE LEGHORN COCK-erels and pullets, \$1.50 each. F. M. McClain, Route 4, McPherson, Kan.

IMPORTED ENGLISH BARRON S. C. White Leghorns. Trapped, bred to record, 300 eggs. Pullets, cockerels, Barngains. Geo. Patterson, Richland, Kan.

300 LARGE BIG COMBED S. C. WHITE Leghorn hens. Young Ferris Yesterday strain. Now half price at \$1 each. Ten weeks old cockerels \$1 each. L. O. Wilmoyer, Halstead, Kan.

ORPINGTONS

S. C. WHITE ORPINGTON COCKERELS. Booking orders for baby chicks, February delivery. H. C. Guttridge, Waverly, Kan.

WYANDOTTES

FOR SALE—TWO GOOD COLUMBIAN Wyandotte cocks. W. T. Floyd, Mound Valley, Kan.

POULTRY PRODUCTS WANTED

CASH BIDS ANY TIME ON BROILERS, hens, eggs. The Copes, Topeka.

PREMIUM PRICES PAID FOR SELECT market eggs and poultry. Get our quotations now. Premium Poultry Products Company, Topeka.

Thousands Attend Capper Picnic

BY RAYMOND H. GILKESON

Fifteen thousand happy, rollicking children ate 230 gallons of ice cream in cones, took a hundred thousand rides on the merry-go-round and roller coaster, and competed in numerous athletic events at Senator Arthur Capper's 14th annual birthday picnic at Garfield Park, Topeka, Kan., July 14. This marked the Senator's 57th birthday anniversary, and he issued a blanket invitation to all the children of Kansas to be his guests for the day.

By special arrangement free street car service was provided for all children going to and from the picnic, and early in the morning thousands of children found their way to the park. While on the picnic grounds everything possible was done to make the day a happy one. Safety first was the slogan, and at every turn members of the army of Capper employees were on hand directing the play so that accidents would be avoided. Not a thing was overlooked that would provide safety for the children while enjoying themselves. Every concession was thoroughly inspected, before being used, by special authorities, and an emergency hospital was established on the grounds, in charge of two trained nurses from a local hospital, so that first aid treatment could be rendered if necessary, but fortunately not a single child was injured in the slightest way.

Here and there in the crowd were seen crippled children, but not for long did they find it necessary to stand in the long, pushing lines and take their turns on the merry-go-round and roller-coaster, for Con Van Natta, administrator of the Capper Fund for Crippled Children, singled them out and made it a point to see that they rode to their hearts' content. That is one of the great wishes of Senator Capper—that no crippled child is unhappy on this day, and Con Van Natta, who is known and loved by many thousands of children made this wish a reality. While the happy throng of well and healthy children were at the picnic, the little folks of Topeka and the surrounding country who were unable to attend because of sickness were not forgotten. The picnic was taken to them in the form of ice cream cones and other remembrances. Every child that could be reached was made glad.

Owing to the press of business at the National Capital, Senator Capper was unable to attend his birthday party in person, but his heart was with the children who gathered to find happiness on that day, and he sent a telegram to tell them so, for in their finding pleasure they brought great joy to him.

American county agricultural agents worked with 1,065,098 farmers in getting cows tested for tuberculosis last year.

Wireless waves travel at the rate of 186,000 miles, or eight times around the earth, in a second.

FLORIDA

FLORIDA LANDS, wholesale, retail, or exchange. Interstate Development Co., Seacrest Bldg., Kansas City, Mo.

MISSOURI

GREENE CO. dairy farm, 90 a., imp., \$50 a. Easy terms. W. C. Cornell, Springfield, Mo.

STRAWBERRIES, grapes, fruit and poultry farms. Hatler Realty Co., Neosho, Mo.

LISTEN, 40 acre imp. farm \$1200. Good terms. Other farms. McGrath, Mountain View, Mo.

WRITE FOR FREE LIST of farms in Ozarks. Douglas Co. Abstract Co., Ava, Mo.

BARGAINS IN IMPROVED FARMS in Barton county, Mo. smooth prairie land. Write for list. John Fahlow, Lamar, Mo.

POOR MAN'S CHANCE—\$5 down, \$5 monthly buys forty acres grain, fruit, poultry land, some timber, near town, price \$200. Other bargains. Box 425-0, Carthage, Missouri.

WE CAN SUBDIVIDE your large farms and cash them quickly. Quick results. D. C. Lorimer, 409 Republic Building, Kansas City, Missouri.

ATTENTION FARM BUYERS—I have all size farms for sale. Well improved. Good soil. Good water. Mild climate. Low prices. Good terms. List free. Write Frank M. Hamel, Marshfield, Mo.

40 A. DARK LOAMY SOIL, 5 GOOD COWS, 5 CATTLE, Team, wagon, harness, tools, growing crops included; 3 miles to village, easy drive to Hurley, high school, good markets, etc., handy to Springfield church and school near Spring watered, wire fenced pasture; nice woodlot, 25 peach trees, roomy cottage, porch, good cellar, substantial barn, etc., all \$1,650, part cash. List free. M. T. Parsons, Hurley, Missouri.

The Real Estate Market Place

There are 7 other Capper Publications that reach over a million and a half families which are also widely used for real estate advertising. Write for special Real Estate advertising rates on these papers. Special discount given when used in combination.

Special Notice

All advertising copy discontinuance or change of copy intended for the Real Estate Department must reach this office by 10 o'clock Saturday morning, one week in advance of publication.

KANSAS

148 ACRES. A bargain. Poor health. Terms. Col. J. Curtis, Osage City, Kan.

SMOOTH, wheat lands. Reasonable price. Terms. Clement L. Wilson, Tribune, Kan.

FOR LAND in Greenwood, Woodson and Coffey counties write J. G. Smith, Gridley, Kan.

SECTION 5-13-41 Wallace Co., Kan. Price \$15 A. Terms. M.M. St. Clair, Ft. Collins, Colo.

TWO FINE, nicely located Johnson Co. farms at bargain prices and terms. Must be sold. Address W. F. Braun, Edgerton, Kan.

190 ACRES. 100 acres bottom, alfalfa. 10 room house, large barn, fine water. \$15,000. McClure & Sutton, Moline, Kansas.

80 ACRES good land, 4 room house, fine barn, outbuildings, poss. Aug. 1. Terms. Price \$6,000. Write V. E. Niquette, Salina, Kan.

SCOTT COUNTY QUARTER SECTION, 80 acres wheat, close to market. Easy terms. No trade. Jas. H. Little, LaCrosse, Kansas.

FOR SALE—600 acre stock farm near Mankato, Jewell Co., Kan. 200 a. choice bottom, balance pasture. Well improved, plenty water. Owner, J. H. Noller, Mankato, Kan.

160 ACRES, 4 miles of town, good improvements. 150 cultivation. \$75.00 acre. Trades a specialty. Franklin Co. Inv. Co., Ottawa, Kansas.

SECTION SMOOTH WHEAT LAND, all grass, unimproved, \$20 per acre. \$5,000 cash will handle. Level wheat quarter mile to town. \$7,000. H. U. Porter, Quinter, Kansas.

40 ACRES, 1 1/2 miles town. Improved. Good land. Obligated to sell. Write for description and June list. Mansfield Land & Loan Co., Ottawa, Kan.

70 A., 6 mi. Ottawa, Kan. New imp.; \$110 a. 125 a. 2 mi. R. R. town, imp.; \$80 per a. 160 a. all tillable; well imp.; \$100 a. good terms. Spangler Land Co., Ottawa, Kansas.

SOUTHEASTERN KANSAS. Good farm lands. Low prices, very easy terms. Exchanges made. Send for booklet. The Allen County Investment Co., Iola, Kan.

BUY IN northeastern Kansas where corn, wheat and all tame grasses are sure. Send for farm list. Silas D. Warner, 727 1/2 Commercial St., Atchison, Kansas.

QUARTER SECTION 1 1/2 MILES SATANTA. Price \$3,700. Terms on \$2,000. Choice, level land. Best bargain on new railroad. Griffith & Baughman, Satanta or Liberal, Kan.

160 ACRES, 2 1/2 mi. of town; all tillable; 6 room house, other outbldgs.; price \$50 per acre. For full particulars of this and other farms write, The Mansfield Land Mtg. Co., 312-13 New England Bldg., Topeka, Kan.

YOUR OPPORTUNITY

to get a real farm home. 300 acres 6 miles town, good improvements, 100 acres cultivation, balance native grass pasture. Land all smooth. Price \$37.50 per acre. Mansfield Investment & Realty Co., Healy, Lane Co., Kan.

STANTON, GRANT AND HASKELL county, Kansas, land, 1/4 section and up, \$15 to \$20 acre. Buffalo grass sod. Best wheat land. Santa Fe Ry. now under construction. 1/2 cash, balance 5 years 6% annually. This land will double in value after R. R. is built. Bargains in S. W. Kansas improved farms. Write Eugene Williams, Minneola, Kansas.

ACRES 160, 2 miles of paved street, Ottawa Kansas. 80 pasture, 80 farm land, good improvements, fine water, price \$75 per acre. \$4,000 will handle, rest good terms. Acres 80, 2 miles of town, Franklin Co., Kansas, all good land, good improvements, price \$100 per acre. \$1500 cash, loan remainder 5 years at 6% if wanted. Ottawa Realty Company, Ottawa, Kansas.

750 ACRE beautiful level farm, adjoining town in Lane county, Kansas; it's one of the finest bodies of land in county; 2 story, 7 room house, 2 large barns, granaries, other outbuildings; nearly 400 acres fine wheat; abundance water; real snap, owner non-resident; \$45 per acre; attractive terms. Mansfield Land & Loan Company, 415 Bonifis Bldg., 10th & Walnut, Kansas City, Mo.

AUCTION—SUNFLOWER RANCH

One of the best and positively the most convenient suburban home in Kansas, will be sold at public auction at Ottawa, Kansas, Wednesday, August 2, 1922. Has every country advantage, also every city convenience. 14 acres, new modern house, good orchard, city limits on two sides, just an ideal suburban home, near splendid schools, churches and Baptist College. Send for circular giving complete description to D. W. Leonard, Owner, or Col. Steve Day, Ottawa, Kansas.

ARKANSAS

160 ACRES, 4 mi. R. R. Good roads, 1/2 mi. school. House, barn, well, spring. Ideal fruit and dairy farm with 1/2 crop \$25 per acre, half cash. Ira P. Baker, Rogers, Ark.

BUY A FARM in the great fruit and farming country of northwest Arkansas where land is cheap and terms are reasonable. For free literature and list of farms write Doyel & Alsip, Mountainburg, Arkansas.

PLANTATION

5,000 a. river bottom near Gov. Lowden's plantation. Half cult. 100 houses. Mules, machinery. Large mds. stock. New land, above overflow. Hard surfaced highways. R. R. station on place. All for \$75 per acre. Terms. R. L. Bryn Real Estate Company, 121 Louisiana, Little Rock, Arkansas.

RATES

For Real Estate Advertising on This Page

45c a line per issue on 4 time orders.
50c a line per issue on 1 time orders.

Pay No Advance Fee

Don't give option or tie up real estate for any kind of contract without first knowing those you are dealing with are absolutely honorable, responsible and reliable.

The Capper Publications, Topeka, Kansas.

Dear Sirs:—

We have been taking advantage of your advertising service, and have found it exceedingly beneficial to us in our business as you cover our trade territory better than any other publication. We are

Very truly yours,
Hatler Realty Company,
Neosho, Mo.

COLORADO

30,000 ACRES—Tracts 160 a. upward. Crop payment plan. Doll & Lamb, Lamar, Colo.

FOR EASTERN COLORADO LANDS write Mitchem Land Company, Agents wanted. Mitchem Land Company, Galata, Colorado.

BACA COUNTY LAND, \$15 to \$25 acre. Schools, churches, wheat, corn, 20 to 40 bu. acre. Two Ry. under construction. Prices advancing. Ellis & Norvell, Stonington, Colo.

WE WANT SETTLERS, NOT MONEY. If in earnest, pay but little down, balance over period 10 years. Irrigated land, near Rocky Ford, in Otero Co., Colorado, banner county U. S. Sugar beets, cantaloupes, honeydew melons, alfalfa, corn, wheat, etc. Don't wait. Colorado Immigration Agency, 204 Sedgwick Bldg., Wichita, Kansas.

READ THIS! ACT NOW!

560 acres adjoining the town of Springfield, Colorado. Well improved. Living water. Plenty of large shade trees. This is the best combination ranch in Baca Co. You will have to act quick to get this. Price only \$20.00 per acre. Half cash, balance liberal terms. No trades. Otho Alexander, Springfield, Colorado.

OREGON

OREGON FRUIT RANCH. Clear 315 acres. Very choice location. \$40,000. Terms \$10,000 cash, balance 10 years 6%. Buy this and live where climate is ideal and crops never fail. Walter Jones, Salina, Kan.

OKLAHOMA

NORTH EASTERN OKLAHOMA. 150 acre improved prairie farm, 4 miles from Pryor. Excellent stock and grain farm. Good soil. Plenty of grass and living water. Will sell at \$37.50 acre to settle estate. Terms. Expenses refunded if you say it's not a bargain. Other bargains T. C. Bowling, Owner, Pryor, (Mayes Co.), Okla.

TEXAS

FOR SALE—1,300 acres 1 mi. Santa Fe station, Seipscomb Co., Tex. Near Oklahoma line; good for grain or stock ranch. For particulars write Milo J. Owen, Barton, Vt.

WISCONSIN

FINE FARM 640 ACRES. 9 room house with all modern conveniences such as furnace heat, running water electric light. Large barn, granary, machinery shed, cow barn, silo, all new and modern. Situated at Red River Valley 5 miles from Gardner, N. D., 22 miles northeast of Fargo, 3 1/2 miles from Minnesota line. For sale cheap if taken at once. J. Wiechers, Racine, Wisconsin.

SALE OR EXCHANGE

SELL and exchange Franklin Co. land, \$36 a. and up. Lyman Dickey & Co., Ottawa, Kan.

TRADES—What have you? List free. Bersie Farm Agency, El Dorado, Kansas.

SALE OR TRADE—A fine 200 acre farm and dairy herd; 2 blocks city school. Geo. R. Harrison, Columbus, Kansas.

240 A. highly improved stock farm. 50 a. alfalfa, 110 a. pasture, bal. farm land. 2 miles town, in good consolidated high school district. Want well improved tract close to good town in Kan. or Colo. Price \$87.50 per acre. D. N. Crowell, Scottville, Kan.

LAND—VARIOUS STATES

SELL YOUR PROPERTY QUICKLY for cash, no matter where located; parties share free. Real Estate Salesman Co., 519 Brownell, Lincoln, Neb.

PRODUCTIVE LANDS. Crop payment or easy terms, along the Northern-Pacific Ry. in Minnesota, North Dakota, Montana, Idaho, Washington and Oregon. Free literature. Say what state interests you. H. W. Byers, 81 Northern Pacific Bldg., St. Paul, Minn.

\$500 Secures 105-Acre Farm. 3 cows and heifers, horses, tools included; 8-room house, barn, poultry house. Only \$2,050, 1/2 down. Page 255 free catalog. Strout Farm Agency, 831GP New York Life Bldg., Kansas City, Mo.

REAL ESTATE WANTED

FARM WANTED Send description and price. H. M. Montgomery, Atlanta, Ill.

WANTED—To hear from owner of farm for sale. Mrs. W. Booth, Hipark, Des Moines, Iowa.

WANTED: To hear from owner of farm for sale. Give price and description. H. E. BUSBY, Washington, Iowa.

WANT TO HEAR from party having farm for sale. Give particulars and lowest price. John J. Black, Capper St., Chippewa Falls, Wis.

I WANT FARMS and lands for cash buyers. Will deal with the owners only. E. A. McNow, 329 Wilkinson Bldg., Omaha, Neb.

FARM WANTED—For general farming and stock raising, must be a bargain. Send description and price. John D. Baker, DeQueen, Arkansas.

I HAVE CASH BUYERS for salable farms. Will deal with owners only. Give description and cash price. Morris M. Perkins, Columbia, Missouri.

FOR RENT OR SALE

FOR RENT OR SALE—Small imp. farm near Baker University. Box 472, Baldwin, Kan.

LAND INFORMATION

Low Round Trip Homeseekers' Tickets

The first and third Tuesday of each month to Minnesota, North Dakota, Montana, Idaho, Washington and Oregon. Write for free book describing opportunities offered homeseekers and investors. E. C. LEEDY, Dept. G, Great Northern Railway, St. Paul, Minn.

LOANS AND MORTGAGES

Farm & Ranch Loans

Kansas and Oklahoma. Lowest Current Rate. Quick Service. Liberal Option. Interest Annual or Semi-Annual.

THE PIONEER MORTGAGE CO., TOPEKA, KANSAS.

Real Estate Advertising Order Blank

(New Reduced Rates)

KANSAS FARMER and MAIL & BREEZE
Topeka, Kansas

Enclose find \$..... Run ad written

below times.

Name.....

Address.....

COPY.....

RATES

50c a line for 1 time
45c a line per issue
on 4 time orders

Reduced Fares TO



Special Reduced Railway Fares from all parts of the State to the Kansas State Fair at Hutchinson, Sept. 16-22 inc. If you don't travel by train, ample good roads lead to the State Fair.

CAMP OUT. Free camp space in the Tent City. Big Community house, city conveniences right on the grounds.

\$40,000.00 PRIZES. 17 General Departments. For information or Prize List address Secretary.

H. S. THOMPSON, President,
A. L. SPONSER, Secretary.

HEREFORD CATTLE

Western Kansas Bulls

40 Hereford Bulls
25 Shorthorn Bulls

These bulls are yearlings, big rugged, big boned bulls of splendid blood lines. Write for prices and descriptions.
C. G. COCHRAN & SONS, HAYS, KAN.

SHORTHORN CATTLE

Shorthorns on Grass

make large gains and improve in quality. That's why they're popular. For Shorthorn information address

American Shorthorn Breeders' Association
13 Dexter Park Avenue
Chicago, Ill.

HOLSTEIN CATTLE

BONACCORD HOLSTEINS

Are you busy harvesting? Bonaccord Holsteins are always giving off a harvest. Federal accredited herd. Write your wants in GOOD Holsteins to

LOUIS KOENIG, SOLOMON, KANSAS

Registered Holsteins

1-yearling 30 lb. bull, nearly white, four cows, six heifers. Sell entire herd or separately. GREENSWARD FARM, FREDONIA, KAN.

Reg. Holstein Bull and Cow
Very cheap. Ray Warnock, LaCrosse, Kan.

GUERNSEY CATTLE

FOR SALE Yearling Guernsey bull, two heifer calves, two young cows, two bull calves, all reg. Write Dr. E. G. L. Harbour, Box 113, Lawrence, Kan.

RANSOM FARM GUERNSEYS

Bulls—Calves to serviceable age by 1919 world's grand champion out of record breaking dams. Ransom Farm, Homewood, Kansas

RED POLLED CATTLE

Choice Red Polled Bulls and Females
All ages. From our accredited herd. Shipped on approval. Schwab & Son, Clay Center, Neb.

Pleasant View Stock Farm
Registered Red Polled cattle. For sale, a few choice young bulls, cows and heifers. Halloran & Gambrill, Ottawa, Kansas

FOSTER'S RED POLLED CATTLE

A few choice young bulls.
O. E. Foster, Route 4, Eldorado, Kan.

RED POLLS. Choice young bulls and heifers. Write for prices and descriptions.
Olas, Morrison & Son, Phillipsburg, Kan.

JERSEY CATTLE

HILLCROFT FARMS JERSEYS

Imported and Register of Merit Jerseys. Choice bull calves for sale. Also registered Duques.
M. L. GOLLADAY, PROP., HOLDEN, MO.

High Class Registered Jersey Cows

Exceptional values, young cows 2 to 8 yrs.—Some have large register of merit records. Others on test now. Many state Fair winners. Also some good young bulls 3 to 18 mos. old. Inspection invited.
R. A. GILLILAND, DENISON, KANSAS

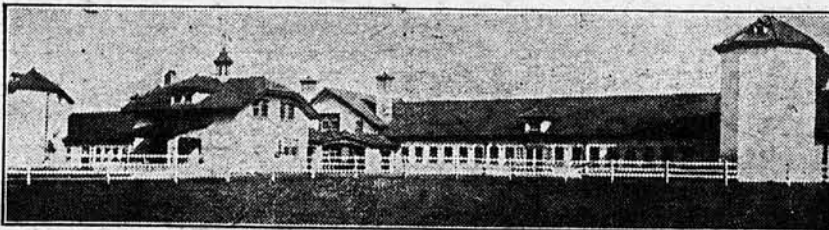
BULLS OUT OF REGISTER OF MERIT
dams, for sale. Herd Federal accredited.
Sylvia Jersey Ranch, Sylvia, Kansas

REGISTERED JERSEY BULLS FOR SALE
"Financial" breeding. Price \$35.00.
Chas. Long, Route 2, Stockton, Kansas

Why Cream Tests Often Vary

Dairymen Often are Unduly Suspicious of Buyers

BY J. H. FRANDSEN



Well Arranged Barn, Silo and Dairy Equipment on the Longview Farm Near Kansas City. Efficient Methods in Handling Improve Cream Quality

NOTHING connected with the cream station causes more dissatisfaction than the variations occurring in the farmer's cream test. Naturally, the farmer watches his cream tests very closely, for slight variations quite materially change the size of his cream check. Many feel that when the cream comes from the same cows, fed on the same feeds, milked by the same man who skims the milk by the same separator, that there should be no difference in the results. It's true that mistakes are made in the cream station, sometimes in the taking of the cream sample, sometimes in reading the test. However, most of the big variations in cream tests constantly occurring are due to conditions over which the cream buyer has no control.

Much of the suspicion and dissatisfaction manifested among cream patrons will be removed when the real causes of variation in cream tests are fully understood. There are several factors which may cause the cream tests to vary, and indeed, if the tests are always uniform, the farmer has more real cause for being suspicious than where variations occur.

Factors That Cause Variations

Chief among the factors likely to cause variation in the cream tests are the following: 1. Variation in speed of the separator; 2. Temperature of the milk to be skimmed; 3. Rate of inflow; 4. Amount of water or skimmilk used in flushing the bowl; 5. Levelness of the machine; 6. Difference in richness of milk separated; 7. Cleanliness of separator; 8. Position of the cream screw.

Speed of the Separator

The most common cause of variation in the percentage of fat in the cream is the change in the speed of the sep-

arator. Under ordinary conditions, variation in speed may cause a difference of from 5 to 20 per cent of fat in cream separated. The greater the speed of the separator, the smaller the amount of cream, and the higher the percentage of fat. When run at low speed, a larger quantity of cream is obtained and it always tests lower. In other words, at a lower speed, more skimmilk goes into the cream. This is clearly understood when it is remembered that the speed of the revolving bowl produces the centrifugal power which forces the skimmilk out of the bowl. The greater the speed, the greater this force, and the more rapidly the skimmilk will leave the bowl. More skimmilk forced thru the skimmilk outlet means less milk for the cream and consequently richer cream. The proper speed of the separator is indicated on the crank of the machine. If cream of uniform richness is to be obtained, the machine must be given the same speed at every skimming. This is possible only if the operator times himself frequently, counting the revolutions of the crank with watch in hand, or by the use of a patent speed indicator. The use of a motor or engine will tend to give a more uniform cream than a machine operated by hand.

Temperature of the Milk

The temperature of the milk separated on the farm varies from day to day. Variations in temperature are not so important as variations in speed, but have been found to cause a difference of from 3 to 4 per cent in richness of cream. The higher the temperature, the thinner the cream. Milk of a high temperature runs more rapidly into the bowl. The capacity of the skimmilk outlet is fixed; consequently, the increased inflow of the milk is dis-

charged thru the cream outlet, producing a thinner cream. As the temperature is lowered, an increasing amount of fat is lost in the skimmilk. Most dairymen are agreed that the temperature of the milk when first drawn from

HORSES AND JACK STOCK

6 Percheron, Ton Breeding Stallions
7 reg. Jacks (own raising). Colts and mules to show. Very choice stock with size and weight, desirable ages, dark colors.
GEO. SCHWAB, CLAY CENTER, NEB.

GREAT SHOW AND BREEDING JACKS
Priced right. Mineman's Jack Farm, Dighton, Kan.

SPOTTED POLAND CHINA HOGS

Bred Sows and Spring Boars

Outstanding boar pigs. Sows bred to a son of Arch Back King to farrow in September. Write your wants.
TAGGART BROS., OLPE, KANSAS

Gilts Bred to Son of Grand Champion

Leopard King. A few tried sows and spring pigs, grand sire Arch Back King. Also good herd boar. Everything immune. T. L. Curtis, Dunlap, Kansas.

BRED SOWS AND GILTS

To farrow in Sept. Spring pigs both sex. Well bred and priced right. JOHN DEITRICH, PLYMOUTH, KAN.

Spotted Polands, Both Sexes

Big type and English. C. W. Welsenbaum, Altamont, Kan.

CHOICE BRED GILTS. Good enough for breeders. Bred to Jumbo Gates. Feb. pigs, pairs or trios. Well spotted. Wm. Meyer, Farlington, Kan.

SPOTTED POLAND CHINAS

Six months, papers, either sex, \$20.00.
Pearl Elarton, Argonia, Kansas

POLAND CHINA HOGS

Big Type Polands

15 fall gilts bred for September farrow. Real foundation stock for somebody's herd. These gilts are bred to our best herd boar.
OSCAR CRAIN, MULBERRY, KANSAS

DEMING RANCH BRED FEMALES

Young sows and gilts to farrow August and September. Bred to The Latchline and Ranch Yankee. A fine lot of spring pigs, both sex. We'll take care of all your needs for Polands.
H. O. Sheldon, Supt. Hog Department, Oswego, Kan.

Carload Poland China Hogs

Tried sows bred and gilts for fall breeding. Will sell in load lot to save sale expense to buyer. Choice lot, excellently bred. Write D. E. Reber, Morrill, Kansas.

HAMPSHIRE HOGS

Silver's Hampshires

Nationally known as producers of Grand Champions. Also winners Packers' Special in carload lots. Chicago International. I specialize in Mail-Order trade. FOR SALE—350 bred sows and gilts. 140 boars. Pigs all ages. 1,000 to select from. Sell one or carload. Cholera immune. Guaranteed as represented. A postcard will bring free price lists, also catalogs of Aug. 10 bred sow sale at Cantrill, Ia., and Aug. 18 bred sow sale at Kansas City, Mo. Write now. F. F. Silver, Wickfield Farms, Box 8, Cantrill, Iowa

Walter Shaw's Hampshires
200 HEAD: REGISTERED, Immured, tried-bred sows and gilts, serviceable boars.
WICHITA, KANSAS, RT. 6, Telephone 3918, Derby, Kan.

100 SPRING GILTS AND BOARS

Well bred. Priced to sell.
W. F. Dreasher, Route 3, Emporia, Kansas

LIVESTOCK AUCTIONEERS AND SALE MANAGERS.

W. B. CARPENTER, AUCTIONEER

Livestock, Land & Lot Specialist
16 years' exp. Largest Auction School
818 Walnut St., 3rd Floor, Kansas City

BOYD NEWCOM, Auctioneer

217 Beacon Bldg., Wichita, Kan.

Jas. T. McCulloch, Clay Center, Kan.

My reputation is built upon the service you receive. Write, phone or wire.

Vernon Noble, Auctioneer

Manhattan, Kan. Livestock and Real Estate.

DAN O. CAIN, Beattie, Kan. Livestock

Write for open dates. Address as above.

HOMER BOLES, RANDOLPH, KANSAS
Purebred stock sales, land sales and big farm sales. Write or phone as above.

ANNOUNCING

Kirk's Economical Sale Service

There are thousands of breeders who can successfully breed, feed and condition their cattle for sale that haven't the ability as a salesman to dispose of their surplus at profitable prices.

My special \$15.00 per head cattle sale service is just what you have been wanting. All you have to do is condition your cattle, furnish a place to hold the sale. I attend to all the details, furnish everything including experienced auctioneers, illustrated Sale Catalog with instructive foot notes, also a splendid line of interesting and attractive advertising that will secure the attendance of prospective buyers.

Results are what you want. In 23 years experience I have never managed a poor sale when compared with other sales held during the same period. Let me sell both your cattle and their pedigrees. Write today for dates.

F. S. KIRK, Manager
Wichita, Kansas

Why Should We Go to College?

BY F. D. FARRELL

IF YOU are one of the several thousand young men who finished high school in Kansas last spring, you doubtless have wondered whether it would pay you to go to college. To go thru college will require four years of your time and a considerable sum of money. Would four years in college be worth the cost to you?

Assuming that you are average, or better, in intelligence and character, the answer to this question should be based largely on whether you wish to lose yourself in the crowd or to stand out as a leader in some branch of human activity. If you are willing to drift along inconspicuously, without distinction or special merit, to stay near the bottom where the crowd is, you probably will not wish to go to college. If, on the other hand, you wish to struggle towards the top in the game of life, to stand out as a leader, and to get the rewards of leadership, then going to college will be one of the best helps to the realization of your desires.

The world rewards leadership because it cannot do without it. Every great field of human activity must have leaders or it will cease to be great or even to exist. It makes no difference what the activity is. One may be a banker, a lawyer, a farmer, a musician, or an author—his rewards in the long run will be determined by the character of the work he does; by the kind of service he renders. And an interesting thing about the situation is that there is practically always a shortage of men in the upper levels of excellence. It is more difficult to find a good foreman or superintendent or general manager than it is to find good men to work under him. That is why the officers are paid more than the privates, not only in the army but in all the industries as well. The men who can successfully fill the better paid positions are those who stand out above the average. In the long run, the men who are best prepared in character and intellect gravitate to the most important and best paying positions.

College training helps a man to "stand out," to excel, and to lead in whatever field he enters. It has been shown that, in the United States, a man with no schooling at all has only one chance in 150,000 of becoming eminent. With a high school training he has 87 times as good a chance, and with a college education he has 700 times as good a chance. This shows that college training is a wonderful help to success and leadership. After all, one of the principal functions of a college is to train men to become leaders. The world always needs leadership. Big rewards go to the men who do big, difficult things; the men whose ability, character and accomplishments mark them as leaders. A college education helps to develop ability and prepares a man for outstanding accomplishments.

the cow—from 90 degrees to 95 degrees Fahrenheit is the best temperature at which to separate the milk.

Regulation of the inflow is a factor that causes variation in the test. Crowding a separator will give thinner cream, with a large loss of fat in the skim milk. Ordinarily the rate of flow is regulated by the float, and does not vary to any great extent. It should (Continued on Page 24)

Public Sales of Livestock

Shorthorn Cattle

Sept. 4—V. A. Jasperson, Scranton, Kan.
Oct. 4—A. L. & D. Harris, Osage City, Kan.
Oct. 14—Fremont Leidy, Leon, Kan.
Oct. 26—E. E. Heacock & Sons, Hartford, Kan.
Oct. 30—Kansas Shorthorn Breeders Association, Manhattan, Kan.
Nov. 1—Northwest Kansas Breeders' Assn., Concordia, Kan.
Nov. 2—Blue Valley Shorthorn breeders, Blue Rapids, Kan.
Nov. 16—J. E. Bowser, Abilene, Kan.

Polled Shorthorn Cattle

Nov. 4—W. A. Prewitt, Asherville, Kan.

Hereford Cattle

Oct. 17—Ed Nickelson, Leonardville, Kan.

Holstein Cattle

Oct. 25—J. M. Chestnut & Sons, Denison, Kan.

Duroc Jersey Hogs

Aug. 3—W. H. Rasmussen, Norfolk, Neb.
Aug. 11—H. E. Labart, Overton, Neb.
Aug. 17—B. R. Anderson, McPherson, Kan.
Aug. 18—B. W. Conyers, Severy, Kan.
Aug. 22—Dr. C. A. Branch, Marion, Kan.
Aug. 23—Wm. Fulk, Langdon, Kan.
Aug. 24—W. D. McComas, Wichita, Kan.
Aug. 26—Lock Davidson, Wichita, Kan. (Sale at Caldwell, Kan.)
Aug. 30—E. G. Hoover, Wichita, Kan.

Sept. 26—James Conyers, Marion, Kan.

Oct. 12—C. O. Wilson, Rantoul, Kan.

Oct. 13—W. H. Rasmussen, Norfolk, Neb.

Oct. 14—Hieber & Hylton, Paola, Kan.

Oct. 17—M. A. Martin, Paola, Kan.

Oct. 18—W. T. McBride, Parker, Kan.

Oct. 19—J. J. Smith, Lawrence, Kan.

Oct. 20—Stafford Co. Duroc Association, Stafford, Kan.

Oct. 21—Homer T. Rule, Ottawa, Kan.

Oct. 24—Osage County Duroc Jersey Breeders Ass'n., Osage City, Kan.

Oct. 26—Fred J. Lupton, Lawrence, Kan.

Oct. 28—Pratt Co. Duroc Breeders' Association, Pratt, Kan.

Oct. 28—H. W. Flock & Son, Stanley, Kan.

Oct. 31—P. N. Marsh, Sedgwick, Kan.

Nov. 1—W. R. Huston, Americus, Kan. Sale at Emporia.

Nov. 1—L. R. Massengill, Caldwell, Kan.

Nov. 3—E. G. Hoover, Wichita, Kan.

Nov. 3—L. J. Healy, Hope, Kan.

Nov. 3—G. M. Shepherd, Lyons, Kan.

Nov. 3—Ross M. Peck, Gypsum, Kan.

Nov. 6—Wm. Fulk, Langdon, Kan.

Nov. 7—Zink & Crowl, Barnard, Kan.

Nov. 7—Zink & Crowl, Barnard, Kan.

Nov. 8—E. E. Norman, Chapman, Kan.

Nov. 8—Stafford Co. Duroc Breeders' Association, Stafford, Kan.

Nov. 9—Frank J. Schaffer, Pratt, Kan.

Nov. 9—W. H. Hilbert, Corning, Kan.

Nov. 10—Pratt Co. Duroc Association, Pratt, Kan.

Nov. 12—H. G. Esheleman, Sedgwick, Kan.

Nov. 12—Mitchell county breeders, Beloit, Kan.

Nov. 13—L. L. Humes, Glen Elder, Kan.

Nov. 13—B. W. Conyers, Severy, Kan.

Nov. 14—John Loomis, Emporia, Kan.

Nov. 14—W. D. McComas, Wichita, Kan.

Nov. 15—Woodell & Danner, Winfield, Kan.

Nov. 16—J. F. Larimore & Sons, Grenola, Kan.

Nov. 17—R. C. Smith, Sedgwick, Kan.

Nov. 19—G. J. Moorehead, Benton, Kan.

Nov. 20—Overstate Bros., Atlanta, Kan.

Nov. 21—D. Arthur Childers, Emporia, Kan.

Nov. 21—Stuckey Bros., Wichita, Kan.

Nov. 22—M. I. Brower, Sedgwick, Kan.

Nov. 22—R. E. Kempin, Corning, Kan.

Nov. 23—R. W. Newcom, Benton, Kan.

Nov. 23—Lock Davidson, Wichita, Kan. (Sale at Caldwell, Kan.)

Nov. 26—P. J. Stauffer, Valley Center, Kan.

Nov. 27—Earl J. Anstett, Osage City, Kan.

Poland China Hogs

Nov. 22—D. A. Kirkpatrick, Ford and Rush, Cedarvale, Kan.

Nov. 26—F. E. Wittum, Caldwell, Kan.

Nov. 28—C. S. Nevius & Sons, Chiles, Kan.

Nov. 29—John D. Henry, Lecompton, Kan.

Nov. 17—Stafford Co. Poland China Breeders' Association, Stafford, Kan.

Nov. 20—H. B. Walter & Son, Bendena, Kan.

Nov. 21—J. C. Dawe, Troy, Kan.

Nov. 24—Chas. Krill, Burlingame, Kan.

Nov. 27—Pratt Co. Poland China Breeders' Association, Pratt, Kan.

Nov. 3—W. A. Prewitt, Asherville, Kan.

Nov. 8—J. E. Baker, Bendena, Kan.

Spotted Poland China Hogs

Nov. 5—G. S. Wells & Son, Ottawa, Kan.

Hampshire Hogs

Nov. 10—Wickfield Farms, Cantril, Ia.

Nov. 18—Wickfield Farms, Cantril, Ia. Sale at Kansas City, Mo.

Field Notes

BY J. W. JOHNSON

V. A. Jasperson's Shorthorn Sale

V. A. Jasperson, Scranton, Kan., is leaving the farm and his splendid herd of registered Shorthorns are to be dispersed in a public sale at his farm Monday, September 24. Forty head of females are being cataloged together with some young bulls and a good son of Beaver Creek. It is a sale like this that affords an opportunity to buy foundation cattle at a price usually paid for the ordinary kind. Jasperson is selling the entire herd and reservations are made. You get the best and the herd has been closely culled and only first class breeding animals are cataloged. The sale will be advertised in the Mail and Breeze later on. But you can just drop him a line right away and the catalog and you will receive it as it is off the press.—Advertisement.

Blue Valley Shorthorn Breeders' Sale

The date of the Blue Valley Shorthorn breeders' association sale at Blue Rapids, Kan., is November 2. It follows the North Kansas breeders' sale at Concordia, Kan., November 1. This is the annual sale of the Blue Valley Shorthorn breeders' association and will be held in the sale pavilion at place. The Blue Valley Shorthorn organization does not take in as much territory as some of the other state organiza-

Labart's Duroc Bred Sow Sale

At Farm Near Town

Overton, Neb., Friday, Aug. 11, 1922

40 Tried Sows—Fall Gilts—Spring Yearlings

Bred for last of August and September farrow to the great boar, LEADING SENSATION, first in class at Nebraska State Fair last year.

10 Spring Boars—10 Spring Gilts

Five or six of each sex out of our GREAT ORION SENSATION LITTERS.

10 head of the bred gilts are daughters of GREAT ORION SENSATION; 1 by HIGH SENSATION; 2 by SENSATION I AM; 2 by TYPES MODEL; 2 by KING SENSATION.

The offering is carefully selected and represents the best big type prize winning blood of the breed. There is no better investment than a richly bred sow bred to a great boar to farrow at the time of year when the litter can be saved. The boars selling are herd boar prospects.

Col. W. M. Putman,
Col. T. C. Jensen, Auctioneers.

H. E. Labart, Overton, Neb.

Send bids in my care to Jesse R. Johnson, representing Capper Farm Press.

BY JESSE R. JOHNSON

High Class Durocs at Auction

The big Duroc Jersey event of the summer will be the annual sale of bred sows and gilts and spring boars and gilts to be held by H. E. Labart of Overton, Neb., Friday, August 11. The sale will be held on the farm six miles south of Overton. Sixty head of as good Durocs as were ever sold in the South Platte territory will go thru the ring. Of the 40 bred females selling ten are yearling daughters of the great prize winning boar, Great Orion Sensation. Others are by King Sensation, High Sensation, Great Sensation, Great I Am, Type's Model and others of the noted boars of the breed. No breeder that the writer knows of in recent years has assembled a more choicely bred lot of outstanding individuals. What an excellent opportunity to buy. These females are bred for the last August and September farrow to Leading Sensation, conceded to be one of the best living boars of the breed. Litters farrowed at this time of year are easily saved. This is a chance to raise a herd boar and get into the business easily and at little expense. Of the twenty top spring boars and gilts about half of them are by Great Orion Sensation, raised out of the high priced sows bought bred to this great sire last winter. Some of them are out of the dam of Leading Sensation, Mr. Labart, while not seeking high prices, is anxious that this offering be fully appreciated and for this reason has gone deep into his herd and will sell on the above date a wonderful lot of breeding stock and the advice of the writer is to buy now. Write at once for catalog, mentioning this paper and after examining it carefully if you can't attend the sale, send bids to Jesse R. Johnson in Mr. Labart's care at Overton, Neb.—Advertisement.

Henry J. Haag's Spotted Poland

Mail and Breeze readers will remember an important Spotted Poland China sale in February, 1920, made by Henry J. Haag of Holton, Kan., and that the average for bred sows was over \$100. Last Tuesday I visited that herd, the Kansas herd of Spotted Poland Chinas. I wish that breeders of Spotted Poland Chinas, either old breeders or beginners, could see it. Three herd boars, all sons of grand champions, are in service, one Haag's Booster, a son of Booster King (the 1918 grand champion), the boar that sires the kind that win and one of the great boars of the breed, Kansas Y's Royal Prince, sired by the \$16,000 Y's Royal Prince. Mr. Haag's great young boar sired by this noted sire and out of English Rose XXV is one of the outstanding individuals of the breed in Kansas at least and is considered by those who are familiar with the breed elsewhere to be one of the great boars to be found anywhere. He was not an accident because he has a right to be good when the great ancestors back of him are considered. The English Rose family is without question one of the greatest sow families ever known to the Spotted Poland China breed. Another herd boar is Kansas Leader by Advance Leader, the Missouri grand champion. The 150 March pigs that Mr. Haag showed me Tuesday are the best I have seen anywhere this season. They are a remarkable lot of spring pigs. Very type, extra well spotted and as growthy as you ever saw, splendid bone and on good feet and legs. To Spotted Poland China breeders or those who are going to buy I think it is important information that Mr. Haag is going to sell 80 head in a public sale at his farm two miles from Holton, October 6. There will be about 20 picked spring gilts and 20 of as good September yearling gilts, open, as you will find anywhere this fall. The balance of the offering will consist of March boars, just tops and they will be extra choice. Everything has been immunized and is coming along fine. Just keep this herd in mind, the Kansas herd of Spotted Poland Chinas at Holton, Kan. The date of the sale is October 6 and it will be advertised in the Mail and Breeze.—Advertisement.

BY J. T. HUNTER

Taggart Bros., Ope, Kan., are offering outstanding Spotted Poland boar pigs and sows bred to farrow in September. Herd sires are Buckeye Superior by Big Buckeye, 1920 Iowa grand champion, and Arch Back Giant by Arch Back King. The nicest bunch of spots Taggart Bros. ever raised. Write them, mentioning Kansas Farmer and Mail and Breeze.—Advertisement.

W. T. McBride's New Swine Barn

W. T. McBride, Parker, Kan., has a 24 by 90 hog house with 20 farrowing pens. There is a sale auditorium 24 by 50. The building is steam heated thruout. Mr. McBride is a veteran breeder both in years and experience. His Duroc herd is beyond question the best herd in eastern Kansas and one of the best herds in the state. His fall sale will be October 18 and spring sale February 15.—Advertisement.

Bred Sows and Gilts are Scarce

* Most owners of purebred hogs are holding back the females to stock up their herds. Among a comparatively few that have surplus females for sale is Wm. Meyer, Farmington, Kan., who will sell some bred Spotted Poland sows and gilts. Some are bred to Jumbo Gates by Gates Jumbo, 1920 Missouri grand champion. This sire puts size, stretch and bone on his get. Some females are bred to Spotted Wonder. This sire gets the easy feeding kind that gets on the market early and preferred by many farmers. Mr. Meyer also offers some spring boars. The Meyer herd is one of the best in Kansas and the Southwest. He has what you need. Write him at once. Please mention Kansas Farmer and Mail and Breeze.—Advertisement.

Shepherd Has the Goods

Durocs at the G. M. Shepherd, Lyons, Kan., farm are coming along nicely. Spring pigs are safely immunized and doing well. A lot of these spring boars will make good sires for the best of herds. They are by Sensational Giant, Sensational Pilot and Royal Sensation out of dams as close up in the blood of the best as they can be. A number of these dams were in the Shepherd herd that was top herd at the Kansas fairs last year. In the bred sow line Shepherd has young tried sows and big spring yearlings bred to farrow late in August and early September. They are bred to the first two above named sires. No fall gilts for sale. These are retained for the big February 5 sale. A few top fall boars for sale. Some are out of Sensation Lady, first senior yearling last fall. Shepherd has good ones. Write him mentioning Kansas Farmer and Mail and Breeze.—Advertisement.

DUROC JERSEY HOGS

Giant Sensation

Bred Sow and Boar Sale

Norfolk, Neb., Aug. 3

Write for catalog. Send buying orders to R. A. McCartney in my care. W. H. RASMUSSEN, Box K, Norfolk, Neb.

Bred Gilts—Big Type

Big, stretchy gilts, bred for September farrow. Best blood lines of Sensation, Pathfinder and Orion breeding. Fine individuals, immunized and priced to sell quickly. J. A. REED & SONS, LYONS, KANSAS

Shepherd's Sensations

Big spring yearlings and tried sows bred to the grand champion, Sensational Pilot, and Sensational Giant. Only a few of these left. They are real sows. Spring boars, herd prospects. Immunized. G. M. Shepherd, Lyons, Kan.

Pathrion & Giant Orion Sensation 4th

We are offering some choice spring boars sired by these two great boars at the head of our herd. Write us at once. W. D. McComas, Box 455, Wichita, Kansas

C's Orion Path Sensation

By Orion Great Sensation, dam an outstanding daughter of Pathfinder. Good smooth fall gilts, open. All immunized. J. A. CREITZ & SON, BELOIT, KANSAS

Bred Sows From Larimores

By Valley Sensation by Great Sensation, bred to Major Sensation Col. by Major Sensation. A few fall boars. J. F. Larimore & Sons, Grenola, Kansas

"Legal Tender" Durocs

have been sold in 51 counties in Kansas. I have a nice lot of pigs—40 to 125 lbs. Papers free with each one. Pairs unrelated. Best breeding at right prices. Write me your wants. J. E. WELLER, Holton, Kan.

VALLEY SPRING DUROCS

Boars all ages, bred sows and gilts. Popular breeding, immunized. Pedigrees. Terms to suit. E. J. BLISS, BLOOMINGTON, KAN.

July 1st Weanling Pigs

By a son of I Am Great Wonder out of dams by Pathfinder and Sensation bred dams. Overstate Bros., Atlanta, Kan.

Durocs \$20 to \$30

Boars ready for service. Fall pigs, either sex, not related, by Herdior, Pathfinder and Valley Wonder Sensation. E. C. MUNSELL, RUSSELL, KANSAS.

Big Bone Type Boar Pigs

Reasonable prices. George Schaefer, R. I. Brown, Kan.

Fine Duroc Boars For Sale

FRANK LUPTON, RT. 5, OTTAWA, KAN.

SOWS AND GILTS bred for Aug. and Sept. farrow to Mammoth Gano Sensation 3rd. Young stock by same boar. M. I. Brower, Sedgwick, Kan.

SENSATIONS AND PATHFINDERS. Pigs all ages, both sexes. Also two sows bred for August farrow. Robt. Dowlin, Barnard, Kan.

PATHFINDER YEARLING SOWS to farrow September. Bred to Sensation boar. Young stock also. Write at once. R. C. Smith, Sedgwick, Kan.

CHESTER WHITE HOGS

O. I. C. Pigs, Either Sex, \$10.00 Each Bred gilts. \$30. E. S. Robertson, Republic, Mo.

MAY FARROW CHESTER WHITE PIGS - VERG CURTIS, LARNED, KANSAS.

AYRSHIRE CATTLE

Ayrshire Cows, Heifers, Bulls Young cows in calf or with calf at foot, yearling heifers, bulls of serviceable age, calves both sex. High producing families. Tuberculin tested. E. W. CUMMINS, PRESCOTT, KANSAS

The Livestock Service of the Capper Farm Press

Is founded on the Kansas Farmer and Mail and Breeze, the Nebraska Farm Journal, the Missouri Ruralist and the Oklahoma Farmer, each of which leads in prestige and circulation among the farmers, breeders and ranchmen of its particular territory, and is the most effective and economical medium for advertising in the region it covers. Orders for starting or stopping advertisements with any certain issue of this paper should reach this office eight days before the date of that issue. Advertisers, prospective advertisers or parties wishing to buy breeding animals, can obtain any required information about such livestock or about advertising, or get in touch with the manager of any desired territory by writing the director of livestock service, as per address at the bottom.

Following are the territory and office managers:
W. J. Cody, Topeka, Kansas, Office.
John W. Johnson, Northern Kansas.
J. T. Hunter, Southern Kansas.
Stuart T. Morse, Oklahoma.
Jesse R. Johnson, Southern Nebraska.
R. A. McCartney, Northern Nebraska.
O. Wayne Devine and Chas. L. Carter, Missouri.
T. W. Morse, Director of Livestock Service, Kansas Farmer and Mail and Breeze, Topeka, Kansas

What's New in Livestock

BY FIELDMEN AND REPORTERS

THE Fairfield Farm Ayrshires of David Page, Topeka, Kan., have just passed the second tubercular test of the United States Bureau of Livestock Industry without a single reactor. One more test and this herd will be fully accredited tubercular free.

The milk from this herd is sold at retail in the city of Topeka and is doing a great deal to advertise the Ayrshire breed locally. In the May inspection report of Topeka Health Department, Fairfield Dairy was second on the list.

Famous Hereford Bull Dies

Repeater 289589, one of the most remarkable bulls of any beef breed, died recently when almost 15 years old.

Repeater has been the property of O. Harris & Sons since calfhood, and in their hands has made a record as a prize winner and sire of prize winners seldom, if ever, equaled.

Better Terms for Showmen

Livestock exhibitors on the Midwest fair circuit, starting at Sedalia, Mo., August and including Iowa, Nebraska, Oklahoma and Texas state and other fairs, get better terms from the railroads this year. Last year the rules governing shipment of their exhibits, allowed them, free for each car, not over 200 pounds of feed and not more than 150 pounds of baggage. Under the new rule the railroads handling exhibits for these fairs will carry free, with each car of exhibition animals, up to 500 pounds each of baggage and feed.

Few Reactors in Anderson County

A total of 152 cows have been tested for tuberculosis in Anderson county, according to A. W. Foster, county agent. Of this number only six were found to be reactors while two others were classed as suspects and are being held for retesting.

The state authorities and Federal Government officials have finished the campaign of testing cows for tuberculosis in Wyandotte county, according to C. A. Patterson, county agent. All of the men who asked to have their animals tested have been visited and tests made.

Twenty-five or 30 reactors were found in the county. These will be appraised as soon as possible. Mr. Patterson says that as soon as Wyandotte county is completely cleaned up the value of cattle in the county will be enhanced because the county will be a free area.

Many Scrub Bulls Replaced

Farm bureaus and county livestock breeders' associations have replaced 443 scrub bulls with purebreds in their efforts to improve the cattle of their respective counties and win the Kansas Better Bull Contest. More than 50 counties are competing. Replacements made by the leading counties are as follows: Franklin, 51; Clay, 35; Rawlins, 32; Montgomery, 28; Ford, 27; Decatur and Cowley, each 23; Labette, 22, and Comanche and Morris each 18.

It is expected that a few replacements will be made during July and August, but bull sales and other phases of the work will be taken up with renewed energy next fall. The contest ends January 15, 1922.

More Cow Testing for Jewell

Fred Adams of Browns Creek township, Jewell county, is interested in organizing a cow testing association, according to Kyle D. Thompson, county agent. Mr. Adams believes enough farmers are interested in dairy cattle to form a good testing association. Mr. Thompson says plans are being made to call a meeting some time in August to discuss details of an association.

Why Cream Tests Often Vary

(Continued from Page 23)

be borne in mind, however, that the float, altho a simple device, is an important factor in keeping the test uniform, and it should not be discarded. When the skimming is finished, con-

siderable quantities of cream remain in the bowl and cream discharging pan. It is necessary to flush the bowl with water or skim milk in order to save this cream. If just enough flushing is used to rinse out the bowl thoroly, no material change is made in the richness of the cream. However, the more water or skim milk that is used to flush the bowl, the thinner will be the cream, and an excess may cause a considerable decrease in the richness of the cream. It is a good plan to pour the flush water or milk into the supply tank, as it will then run gradually into the machine and most of it will pass thru the skim milk outlet, making little change in the richness of the cream.

Levelness of the Machine

A machine that is not leveled properly cannot do efficient work. The consequent vibration of the bowl will not only cause variation of the test and loss of fat in the skim milk, but will wear out the machine very rapidly.

Variations in Richness of Cream

The percentage of butterfat in the milk from individual cows varies from time to time. Some of the causes of such variations are known, and others no one has been able to explain. The richer the milk, of course, the richer will be the cream. Many conditions

may cause changes in the richness of the milk. During the early summer months the milk is usually lower in butterfat. This is caused principally by our practice of having a large number of cows freshening in the spring. The fat content in general is highest in the autumn and early winter. As the cow advances in the period of lactation, the richness of the milk increases. A number of fresh cows therefore means a lower cream test. It is a well-known fact that even the milk of an entire herd may vary in butterfat from one day to another, for which no cause is definitely known. It has been found, however, that the character of the feed given a cow has no effect upon the richness of the milk she gives. It is no more possible to change the richness of milk by feeding than it is to change the color of a cow's hair by feeding.

Cleanliness of the Separator

Proper cleaning of the separator after every separation is important. Gummy parts in the separator will not only cause the test to vary, but will result in loss of cream in the skim milk, to say nothing of the lowered quality of the cream.

Possibly there are but few who run separators who do not understand the

regulation of the cream screw and its effect upon the cream test. The cream screw, however, is not changed very frequently and it is not the common cause of the variations in the test which so often occur.

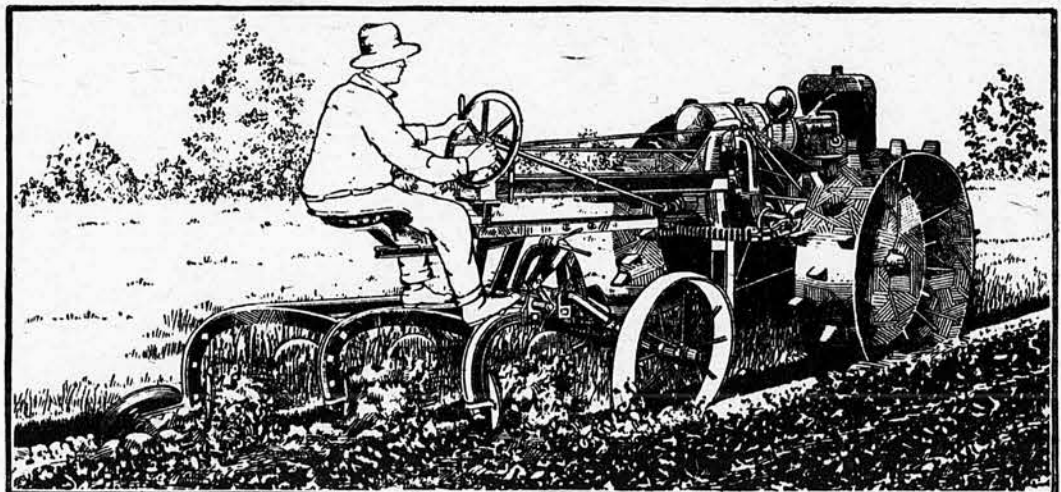
Those who sell cream should deliver it smooth and free from lumps. It is almost impossible to get an accurate sample for testing purposes from lumpy cream.

There are other causes for variation in cream tests, but those mentioned are the most striking. If you have any suspicions of the accuracy of the tests that you receive that cannot be ironed out or fully explained after a conference with your creamery or station man, why not send a sample to your dairy commissioner, who will gladly, and without charge, make a check test for you? Practically all our states now have laws making it illegal to misread cream tests. These laws, of course, are for the protection of the cream seller.

To those who prefer to do their own checking, attention may be called to the fact that small cream testing outfits can be purchased for a few dollars from any good dairy supply house. The directions for making the tests are very simple and can readily be mastered by anyone interested.

NOW \$650

Was \$1325



MOLINE

UNIVERSAL TRACTOR

Sold on "THE MOLINE PLAN"

In line with our policy of getting implements to farmers at lowest possible prices through "THE MOLINE PLAN," we announce a reduction on Moline UNIVERSAL Tractors to \$650 f. o. b. factory. This same tractor, now materially improved, sold for \$1,325 in 1920 and for \$990 in 1921, making a total reduction of more than half the original price.

The Moline UNIVERSAL Tractor furnishes farm power for all purposes including cultivating. This means that it completely replaces 5 horses on an average 160 acre farm, with smaller and larger farms in proportion. One man operates both the tractor and implements, riding on the seat of the implements with his work always in front of him where he can see it. Moline Universal Tractor implements include a 3-2 bottom plow; double or single disc harrow; grain drill; 2-row cultivator; 6-foot mower; 8 and 10-foot roller bearing binder, etc., all at low prices. In addition, "drag-behind" tractor or horse-drawn implements can be operated as efficiently with the Moline Universal Tractor as with any other type of tractor.

SEND FOR ILLUSTRATED LITERATURE including positive proof that—

1. The Cost Today of Farm Power Supplied by the Moline Universal Tractor is less than the Cost of the Power Supplied by the Horses it Replaces.
2. The Moline Universal Tractor Saves Man Power on the Farm.
3. The Power Supplied by the Moline Universal Tractor is better than Horse Power.
4. Moline Universal Tractor Power is Cheaper and Better Farm Power than the power Supplied by Any Other Type of Tractor.

If you don't know the Moline Dealer nearest to you, ask us for his name.

MOLINE PLOW COMPANY INC.

Reorganized, Refinanced, Powerfully Capitalized

MOLINE, ILLINOIS



Send for this booklet which explains how the Moline Plow Co. Inc., is lowering the cost of implements by cutting out the terrific waste in implement distribution. If you believe that farmers should pay less for what they buy and get more for what they sell, you ought to know about the MOLINE PLAN. Never before has a big implement manufacturer made such a big change in selling policy. It means big savings for you. Send for it today!